



**State of Washington  
DEPARTMENT OF FISH AND WILDLIFE**

Mailing Address: 600 Capitol Way N, Olympia, Washington 98501-1091 - (360) 902-2200

**ENVIRONMENTAL CHECKLIST  
(WAC 197-11-960)**

**A. BACKGROUND**

1. **Name of proposed project, if applicable:** Thompson Creek Habitat Restoration
2. **Name of Applicant:** Washington Department of Fish and Wildlife
3. **Address and phone number of applicant and contact person:**

Washington Dept of Fish and Wildlife  
Capitol Programs & Engineering Division  
600 Capitol Way North  
Olympia, WA 98501-1091

Contact Person: Marty Peoples  
Fish and Wildlife Biologist  
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4. **Date checklist prepared:** February 10, 2011
  5. **Agency requesting checklist:** Washington Department of Fish and Wildlife.
  6. **Proposed timing or schedule (including phasing, if applicable):**
- April-June 2011
7. **Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**

Yes. This project is being performed as mitigation for elements of the Skookumchuck Hatchery Construction Project.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal:**
- None known.
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.**
- None are pending.
10. **List any government approvals or permits that will be needed for your proposal, if known.**

A Thurston County Critical Areas Review and Grading permit, and a WDFW HPA permit will be needed.

**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.**

This project consists of a restoration of a streamside area that was once used as a staging and parking area but currently is blocked to vehicle traffic or use. This old parking area has a base of imported rock that supports little growth except for canary reed grass. This riparian area will be restored to valuable fish and wildlife habitat by removing this imported rock base and planting the area with native riparian plants and providing a high flow channel for Thompson Creek. This channel will be installed above Ordinary High Water and would provide overwintering habitat for salmonid species. The specific components of this project are:

1. Remove 850 cubic yards of imported fill from the riparian area and place that fill at an area next to the roadway above Ordinary High Water.
2. Construct a high flow channel and install three log stacks to provide a woody debris component to the channel.
3. Perform plantings of native grass and shrubs species over entire site.

**12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including 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 Thompson Creek Restoration site is reached by driving south from Tenino on Highway 507 for 2.3 miles to the Skookumchuck Road. Turn east onto Skookumchuck Road and proceed 5.5 miles to Thompson Creek Road. Turn right at Thompson Creek Road and travel one mile to point where overhead power lines cross the road. The mitigation site is on the right next to the creek and under the power lines. This project is located in Thurston County, Section 13, Township 15 North, Range 1 West.

**B. ENVIRONMENTAL ELEMENTS**

**1. Earth**

**a. General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other \_\_\_\_\_.**

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

30% 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 the agricultural soils, specify them and note any prime farmland.**

Soils in the vicinity are classified as Chehalis silt loam.

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

No.

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

There will be cut of 850 CY above OHW at this site. This material consists of old rock fill that will be moved to allow the area to be restored with riparian vegetation. Cut material and vegetative matter (canary reed grass) will be moved next to the roadway. This area will be replanted with a native grass mix.

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

Yes, construction activities will temporarily disturb soil surfaces.

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

There will be a 95% decrease in impervious surfaces at this site.

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

Erosion impacts will be reduced by placing a sediment barrier around the construction sites to isolate disturbed area from surface waters and prevent silt delivery to the stream.

## 2. Air

- a. **What type of emissions to the air would result from the proposal (i.e., dust automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

Low levels of vehicle exhaust emissions and dust from construction activities are expected during project activities. No long-term effects in air quality are anticipated to result from the completed project.

- b. **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.** No.

- c. **Proposed measures to reduce or control emissions or other impacts to air, if any:** None.

## 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 or wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

Thompson Creek is within the project site. Thompson Creek is a tributary of the Skookumchuck 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.**

Yes, all components of the project are directly adjacent Thompson Creek (see attached 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.**

No fill material will be placed into or removed from surface waters.

- 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.**

No.

- 6) **Does the proposal involve any discharges of waste material to surface waters? If so, describe the type of waste and anticipated volume of discharge. No.**

**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.**

No waste material will be discharged.

**c. Water Runoff (including storm water):**

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

With the removal of impervious gravel parking surfaces, stormwater will disperse/infiltrate across the surrounding natural area. Stormwater from Thompson Creek Road will disperse/infiltrate across the surrounding natural area.

- 2) **Could waste materials enter ground or surface waters? If so, generally describe. No.**

**d. Proposed measures to reduce or control surface, ground and runoff water impacts, if any:**

Planting of native shrubs and grasses and removal of impervious surfaces will facilitate infiltration of runoff.

**4. PLANTS**

- a. **Check or underline types of vegetation found on the site:**

**deciduous tree: alder, maple, aspen, other (willow)**

**evergreen tree: fir, cedar, pine, other;**

**shrubs**

**grass**

**pasture**

**crop or grain**

**wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other**

**water plants: waterlily, eelgrass, milfoil, other**

**other types of vegetation**

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

Two 8 foot Douglas maples and one 10 foot cascara will be removed. All other vegetation removal will be restricted to noxious weed removal consisting of Himalayan blackberry and canary reed grass.

**c. List threatened and endangered species [of plants] known to be on or near the site.**

No endangered plant species are listed to occur near this site.

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

23,740 square feet of upland and riparian area will be restored to a natural condition and planted with native plants.

**5. ANIMALS**

**a. Underline any birds or 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:

**Mammals:** deer, bear, elk, beaver, other:

**Fish:** bass, salmon, trout, herring, shellfish, other:

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

Puget Sound Chinook and Puget Sound Steelhead occur near this site.

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

Juvenile and adult salmon migrate through this area.

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

Work will be done during low water periods to minimize impacts to aquatic species. A silt curtain will be used to isolate the work area and protect fish species from turbidity impacts.

## **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.** None.
- b. **Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.** 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:** None.

## **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.** No.

1) **Describe special emergency services that might be required.** None.

2) **Proposed measures to reduce or control environmental health hazards, if any:** None.

### **b. Noise**

1) **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?** None.

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

Temporary increases in noise levels during construction activities are expected from this project. Hours of increased noise will be 7 am to 5 pm. No long term change in noise levels is expected from the completed project.

3) **Proposed measures to reduce or control noise impacts, if any:** None.

## **8. LAND AND SHORELINE USE**

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

This site is vacant and is part of the right of way for power line access. Adjacent properties are used for forestry purposes.

- b. **Has the site been used for agriculture? If so describe?**  
No.

- c. **Describe any structures on the site.**

Structures on this site are limited to barrier rock and logs for large woody debris structures.

- d. **Will any structures be demolished? If so what?** No.

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

Long Term Forestry.

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

Long Term Forestry.

**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.**

This area is listed as Centralia Mine Elk Herd Winter Habitat in the WDFW PHS database.

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

No persons would reside here.

**j. Approximately how many people would the completed project displace? None.**

**k. Proposed measures to avoid or reduce displacement impacts, if any: None.**

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

Land uses in this specific area will not be affected by this project. Public use in this area is high and will not be restricted by this project.

**9. HOUSING**

**a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. None.**

**b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. None.**

**c. Proposed measures to reduce or control housing impacts, if any: None.**

**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?**

Three log stacks will be placed on the site to add a large woody debris component to the high flow channel. These structures are four feet tall.

**b. What views in the immediate vicinity would be altered or obstructed? None.**

**c. Proposed measures to reduce or control aesthetic impacts, if any: None.**

**11. LIGHT AND GLARE**

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

The repair will not may produce glare.

- 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?** None.

- 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?**

There are hunting and fishing opportunities available in this area.

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

No recreational activities will be displaced.

- c. **Proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant, if any:** None.

**13. HISTORIC AND CULTURAL PRESERVATION**

- a. **Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.**

None are listed.

- b. **Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.**

None are known.

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

No native soil will be disturbed. Disturbance will be limited to previously placed fill.

**14. TRANSPORTATION**

- a. **Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.**

The Thompson Creek Road serves this site.

- b. **Is site currently served by public transit? If no, what is the approximate distance to the nearest transit stop?**

No. The nearest public transit stop is in unknown.

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

There will be no parking area established with this project. No parking spaces will be eliminated.

- d. **Will the proposal require any new roads or streets, or improvements to existing roads or**

streets, not including driveways? If so, generally describe (indicate whether public or private).

No new roads will be required. Existing roads will not be altered.

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

This project does occur next to water, air or rail transportation routes.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

This project will not generate any additional vehicle trips to this site.

- g. 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. Underline utilities currently available at the site: 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.

No utilities will be added or changed from this project.

#### 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: Martin Peoples DATE SUBMITTED: 2/10/2011