WAC 197-11-960 Environmental Checklist.

ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable***: Humptulips Hatchery Improvement Project***

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: Larry Peck
Fish and Wildlife Biologist
Telephone Number: (360) 902-8376
Fax Number: (360) 902-8367
E-Mail: Larry.Peck@dfw.wa.gov

4. Date checklist prepared: *March 6, 2013*

5. Agency requesting checklist: ***WASHINGTON DEPARTMENT OF FISH AND WILDLIFE***

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

WDFW proposes to do this project in the summer of 2013.

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

Additional activity is planned for this site including rebuilding a new water intake structure on Stevens Creek to provide water for the Humptulips Hatchery, currently scheduled for the 2014 or the 2015 construction window.

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

Hatchery and Genetic Management Plans (HGMPs) are prepared to reflect annual rearing and release programs that occur at this project. This data is available in FPC annual reports and in the FPC Hatchery Database (http://www.fpc.orghatchery/Hatchery Queries v2html). A Comprehensive Land-Use and Environmental Application Review for Grays Harbor County. A NPDES Engineering Report to fulfill WAC 173-221A-100.

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.

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

Grays Harbor County Shorelines Exemption and a Department of Ecology NPDES permit approval for the updated fish waste water/pollution abatement pond.

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.)

The proposed project consists of two major elements:

1. Upgrade and modification of the existing Humptulips Hatchery Pollution Abatement facilities to treat fish waste and improve water quality in the hatchery's effluent. The current pollution abatement facilities consist of two gravel bottom ponds to settle out suspended solids associated with pond cleaning. Only one of the existing abatement ponds (pond1) will be modified and use continued for pollution abatement. The second pond (pond2) will be taken out of service and left unfilled and unused until future use is identified. The specific components of this element are: Construct an 89.5 by 32.5 foot two celled concrete pond within the existing footprint of pond 1 with a maximum depth of 8 feet, each cell of the new pond will be equipped with an overflow and decant tank, Connect new pond drain into existing drain system, Install vinyl pond cover to reduce algae growth, Install new venturi vacuum system to vacuum clean fish waste,, Install sleeve within existing piping to deliver vacuumed fish waste to new treatment pond, Modify drain in pond 2 to allow unrestricted drainage after use is suspended.

2. The second major element is the replacement of a 1250 foot 12 inch steel pipeline with 12 inch HDPE pipe at the Humptulips Hatchery. The pipe supplies water collected at the Hatchery Creek Intake to the Humptulips Hatchery for fish rearing in the hatchery's raceway rearing and incubation ponds. The existing pipeline is at the end of its functional life due to corrosion and rusts that has resulted in water leaks. The new pipeline will be installed in the same footprint as the existing pipeline. The old steel pipe will be exposed and removed. Trenching will be completed with an excavator. The pipeline crosses under Kirkpatrick Road inside another oversized pipe. The old water supply pipe will be removed from this casting pipe and the new pipe installed, all from the end of the casting pipe without impacts to the road. The pipeline corridor (above ground) is clear of larger vegetation but some shrubs have grown back in portions of the pathway and will be removed while clearing the work corridor.

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 Humptulips Hatchery site is located 26 miles north Hoquiam on just off Highway 101. After leaving leaving, proceed on 101 until reaching Humptulips. Turn left onto Kirkpatrick Road and proceed 1.5 miles, the hatchery is the first left, immediately after the bridge over Stevens Creek. The Humptulips Hatchery is located in Grays Harbor, Section 12, Township 20.0 N, and Range 11.0 W with a 47.23148 N lat./-123.98512 W long. Proposed project includes construction activies in portions of the following parcels:

201112340010A
201112410010
201112300000

B. ENVIRONMENTAL ELEMENT

1. **Earth**

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

Generally flat with rolling adjacent grounds.

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

10%.

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.

The soil is classified as Humptulips silt loam. Most of the site however is surfaced with imported crushed rock aggregate.

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

There are no indications of unstable soils.

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

1. Pollution Abatement upgrade pond 1 will require 196 cubic yards new concrete poured/fill and 1239 cubic yards of soil and compacted structural backfill. New venturi vacuum lines will be buried within the formalized hatchery grounds with no net impact on cut and fill. Pond 2 will have minor modifications on in its drain with no net gain of fill.

2. *Pipeline* replacement e*xcavated material will be placed adjacent to the trench and within the maintained corridor. After installing the new HDPE 12 inch pipe, the stockpiled dirt will be placed into the trench as bedding and fill for the new pipeline. A new buried electrical cable will also be installed to replace the existing cable. This cable provides electrical power to the water intake for lighting. Pipeline trench will be approximately 3 feet wide and up to 10 feet deep, no proposed changes to existing pipeline elevations, total length of pipe to be replaced is approximately 1250 feet. No net change in fill associated with this project.*

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

1. Pollution Abatement, erosion is very unlikely since nearly all work will be conducted within the existing ponds allowing this element to be completely isolated. All machinery will be operated on established driving surfaces.

2. Pipeline Replacement, Low risk as a silt fence will be installed between the disturbed area and the creek to prevent storm water impacts to Hatchery Creek. At the water intake no disturbance will occur on the stream side of the intake structure or below OHW or within the stream channel. After crossing Kirkpatrick Road, the pipeline disturbance area is geographically isolated from surface waters and a silt fence is not considered necessary. All disturbed areas will be stabilized with straw mulch and grass seeding and removal of silt fences after the construction period.

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

The proposed project will result in no net change in existing imperious surfaces.

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

Best Management Practices will be used including sediment curtains and filter fabric. No sediment will enter the water or be allowed to migrate downstream. No equipment will enter the water to complete this proposed project.

2. Air

a. What types 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.

Vehicle exhaust and dust from construction is expected. No long-term change in emissions is expected 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:

Equipment will be maintained and inspected to ensure proper function of all emissions control equipment.

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, Hatchery Creek is a tributary to Stevens Creek which flows into the Humptulips 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.

1. Pollution abatement, proposed work is approximately 300 feet from the Humptulips River, approximately 205 feet from Stevens Creek, and well over 200 feet from Hatchery Creek.

2. Pipeline replacement, the proposed project site is adjacent to Hatchery Creek, the project will all occur within the existing pipeline corridor. Pipeline distance from Hatchery Creek varies to less than 10 feet at the intake structure. All construction activities will be conducted upland of the existing Hatchery Creek Water Intake structure. Proposed work for this element of the project is well over 200 feet from Stevens Creek and the Humptulips River.

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 surface waters or taken from surfaces waters.

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

No impact on current surface water withdrawals.

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 materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

A major element of the pollution abatement element of the project is to update and improve the existing hatchery pollution abatement facilities and improve water quality in the hatchery's effluent. All fish waste collected in the new pollution abatement facilities will be landfilled in an approved upland disposal site. No other waste materials are associated with the proposed project.

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 domestic or industrial sewage is onsite and no waste material will be discharged from this source. Agricultural chemicals will not be applied as part of this project or as a result of this project.

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.

The proposed project will not change existing storm water runoff patterns.

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

With the implementation of impact minimization measures, no waste materials are anticipated to enter ground or surface waters.

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

General Impact Reduction Measures

1. *Any storm water runoff will be contained using erosion control Best Management Practices.*
2. *Equipment will be washed before entering the job site and inspected daily for fuel or lubricant leaks.*
3. *Equipment staging and fueling areas will be completely isolated from surfaces waters to avoid the possibility of impacts to surfaces waters resulting from fueling or staging activities.*

4. **Plants**

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

_X_ deciduous tree: alder, maple, aspen, other: cottonwood
_X_ evergreen tree: fir, cedar, pine, other
_X_ shrubs
_X_ 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?

Proposed pipeline element will occur on the developed footprint of the pipeline corridor, potential slight vegetation (grass and bushes) removal associated with new pipeline trenching activities. Proposed pollution abatement upgrade will occur on the developed footprint of the existing hatchery grounds, potential slight loss of established grass near the work site.

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

No threatened or endangered plant species are known to occur in this area.

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

Only grass planting will be done as part of this project to stabilize disturbed areas.

5. **Animals**

a. Circle any birds and 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: waterfowl
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.

No known endangered species near the proposed site.

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

Elk and deer use this area as part of a migration route. The Humptulips River has Chinook, Chum, and Coho salmon as well as Steelhead, Cutthroat and potential Bull trout. The site is within the Western Flyway for migratory birds but few observances occur at this site.

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

To preserve fish resources, WDFW will schedule this project during periods of minimal use by fish species to avoid any harmful impacts upon fish. The use of BMP's to ensure no sedimentation or silt reach any surfaces waters will be utilized to preserve water dependent species. Upgraded pollution abatement facilities will result in improved water quality in the hatchery's effluent.

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.

The completed project will not result in new energy consumption.

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

This project will not affect solar energy use.

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:

No energy conservation features are included and no impacts are anticipated.

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.

Materials likely to be present include gasoline and diesel fuel, hydraulic fluid and lubricants. An accidental spill of one these products could occur during project operations.

1) Describe special emergency services that might be required.

None anticipated.

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

A spill prevention and pollution control plan will be prepared by WDFW project engineers to reduce risk of spills and to provide guidance if a spill occurs. Spill containment and cleanup kits will be maintained on site.

b. **Noise**

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

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.

In the short term, increased levels of noise during construction activities are expected from this project. Hours of increased noise levels will be 7am to 6pm. No change in noise level is expected from the completed project.

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

None planned.

8. **Land and shoreline use**

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

The current use of the site is a state operated fish hatchery; adjacent properties are rural and largely undeveloped.

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

The project site has not been used for agriculture.

c. Describe any structures on the site.

Current structures on the site include staff residences, fish rearing ponds, water intake structures, and adult fish holding pond with a short fish ladder, hatchery building, storage building and two gravel bottom settling ponds.

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

Existing pollution abatement pond 1 will be demolished and a new pollution abatement facility will be constructed within its footprint. The existing Hatchery Creek pipeline will be removed and hauled to an approved land fill for disposal.

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

Rural.

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

Rural.

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

Rural

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

No.

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

Humptulips hatchery will continue to be staffed at three FTEs.

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:

This project is consistent with WDFW's current use of the site and improves water quality by upgrading the current rearing ponds vacuum system and waste water treatment facility.

9. **Housing**

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

Housing will not be affected.

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

No housing units will be eliminated.

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

None planned.

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?

Pollution abatement, the new treatment pond includes the installation of a vinyl cover to prevent direct sun light reaching the holding waters to reduce algae growth and warming waters. Height of the proposed vinyl cover is approximately 12 feet above ground level. The Hatchery Creek pipe line replacement will be all constructed underground.

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

Local views will be slightly affected by the new treatment facilities.

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

None planned.

11. **Light and glare**

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

None.

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

No. This project is not expected to result in safety hazards or altered views.

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 fishing and wildlife viewing opportunities near this site, as well as informal education tours..

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

No recreational activities will be hindered or displaced.

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

None, as this project will not displace any existing recreational activities.

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.

The Washington State Department of Archaeology and Historic Preservation records database was checked to ensure that no currently listed objects or places occur at this site.

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:

None. The proposal is not expected to have any cultural impacts on the project site or nearby properties.

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.

Kirkpatrick Road off Us highway 101 services this site, no proposed changes

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

There is not an established transit stop at the project site; however the county does offer "Dial A Ride" services at this site.

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

The project will not affect or alter existing parking spaces.

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).

This project will not impact any roads.

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? If known, indicate when peak volumes would occur.

No additional vehicle trips are anticipated to result from this project.

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

Electricity, telephone, refuse service, wood stoves, oil heat and septic system.

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 as a result of 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: Larry W. Peck

Date Submitted: March 6, 2013

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

(do not use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

This proposal would not increase any items listed above.

Proposed measures to avoid or reduce such increases are:

None proposed.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

This proposal would not likely result in any change to plant, animal, fish or marine life.

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

No measures proposed.

3. How would the proposal be likely to deplete energy or natural resources?

No effect on energy or natural resources.

Proposed measures to protect or conserve energy and natural resources are:

No measures proposed.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

This proposal is not likely to affect areas listed above.

Proposed measures to protect such resources or to avoid or reduce impacts are:

No measures proposed.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

This proposal will not alter shoreline or land use.

Proposed measures to avoid or reduce shoreline and land use impacts are:

No measures proposed.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

Not applicable.

Proposed measures to reduce or respond to such demand(s) are:

No measures proposed.

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

This proposal does not conflict with environmental protection laws or requirements.