

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:

Marblemount Hatchery:

Pond 23 Maintenance, Jordan Creek Pipeline Replacement, Well #5, and Jordan Creek Intake

2. Name of applicant:

Washington State Fish and Wildlife

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

Washington State Fish and Wildlife

Cindy Knudsen

600 Capitol Way North

Olympia, WA. 98801

4. Date checklist prepared:

3 22 2013

5. Agency requesting checklist:

Washington State Fish and Wildlife

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

Summer, 2013 and 2014 for Phase II

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

The first phases of this project include the repairs to Pond 23, the Jordan Creek Pipeline, and well #5. During the second phase of repairs, (summer 2014 or 2015) a new intake structure on Jordan Creek is planned. This intake will be attached to the (new) Jordan Creek Pipeline.

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

A wetlands delineation performed for this project includes all components of this project. A Biological Assessment will be submitted to the USACE for the Jordan Creek Intake replacement (phase II) of this proposed project.

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.

No.

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

Skagit County Shoreline Exemption Permit and an HPA will be required for the Pond 23 Maintenance and Jordan Creek Pipeline Replacement project.

A USACE permit, a Skagit County Substantial Development Permit, and an HPA will be required for the Jordan Creek Intake project (Phase II).

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.)

POND 23

Pond 23 is a constructed natural earthen holding pond (6 to 8 feet deep) covered with bird predation netting. There is some aquatic vegetation in the pond. Pond 23 is connected to an adult holding pond and also to Clark Creek. An existing walkway and fish weir across pond 23 needs maintenance to prevent flood flows from overtopping the weir. To maintain this walkway and prevent further damages, the top of the pond 23 walkway will be raised 4 feet. A new 4 foot railing will be installed on top of the new walkway. Additionally two new sluice gate stop logs will be installed in the existing weir, with two attached step platform areas used to access the sluice gates.

JORDAN CREEK PIPELINE

This new pipeline replaces a leaking pipeline originating at the current Jordan Creek intake. This pipeline was originally installed in the 1940's. The new line (approximately 1,400 feet long) will be installed approximately 10 feet away from the old pipeline along the existing gravel access road. The new pipeline trench will be approximately 24 inches wide, and it will be placed into a trench 7 feet deep and 2.5 feet wide. This pipe line will tie into the existing Jordan Creek intake.

WELL # 5

This well will replace the existing well #5 at the Marblemount Hatchery that has become damaged. The well will be approximately 100 feet deep and located next to the current location of the present well #5. The well piping will connect to the new Jordan Creek Pipeline.

JORDAN CREEK INTAKE (Phase II)

Design for the new Jordan Creek Intake has not been finalized at this time. When the proposed intake is built it will be attached to the new Jordan Creek Pipeline. Plans for the intake will be submitted to update the SEPA determination when they are finalized.

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.

This project is on 8319 Fish Hatchery Road, Marblemount, WA. 98267, From Highway 20, take slight right onto Cascade River Road. Turn right into Rockport Cascade River Road. Go 0.2 miles. Take first right onto Fish Hatchery Road. 8319 Fish Hatchery Road is on the right. T 35, R11, S18. (Hatchery property: 48.52345,-121.41777). Pond 23 is at 48.52425,-121.41764. The new hatchery pipeline will be from approximately 48.523451,-121.41777, to the pipeline terminus at 48.51962,-121.419565 (that is near the Jordan Creek Intake).

B. ENVIRONMENTAL ELEMENTS

1. Earth

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

The Marblemount Hatchery pond 23 is located in a wooded area, with several deciduous and evergreen trees, grassy areas and shrubs. The creek banks in the area consist of a mix of immature alder, thimbleberry and twinberry. The access road along the pipeline installation area and the Jordan Creek intake is in a forested area with an overstory of western red cedar, big leaf maple, immature alder and cottonwood. Understory species include vine maple, Himalayan blackberry, Indian plum, current, sword fern, bracken fern and stinging nettle.

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

For the Pond 23 location there is a 3% slope, and 8% for the Jordan Creek pipeline and Intake (Phase II).

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.

For all projects, the soil types are typically Kline very gravelly sandy loam and Pilchuck loamy sand soil types. These soils are excessively drained. Neither of these soil types is considered wetland or hydric soils.

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.

The new Jordan Creek pipeline will reuse excavated materials to cover the new pipeline. Any materials not used will be taken to a disposal area out of the floodplain.

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

Yes, erosion could occur. Best management practices will be used to prevent erosion such as installation of sediment prevention fences and use of hay bales.

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

No change in impervious surfaces will occur. The new Jordan Creek pipeline will be filled in with permeable soils existing on site.

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

For all portions of the proposed project, Best management practices will be used to prevent erosion such as sediment prevention fences. The pipeline will be installed in weather conditions that do not promote flooding and soil runoff.

2. Air

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

Typical emissions will occur from the pipeline installation from heavy equipment operations. There will be no emissions will 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, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The hatchery is located at the north and south forks of Clark Creek, a tributary to the Cascade River and the Skagit River. Within 270 feet of pond 23, is the south fork of Clark Creek. The north fork of Clark Creek and a drainage ditch running parallel to the Cascade River are also both located on the Hatchery located more than 300 feet from the project location. The hatchery intake is installed on Jordan Creek, a tributary of Cascade 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.

This project will work within the water of Clark Creek over an earthen holding pond to maintain a hatchery weir structure located approximately 270 feet away from the Cascade River.

The new Jordan Creek pipeline will be attached to the existing Jordan Creek Intake that is within 200 feet of Jordan Creek. The new Jordan Creek Intake (Phase II) will be in the water of Jordan Creek.

- 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 or dredge materials will be placed in or removed from surface water or wetlands. No wetlands are present at the project locations.

Phase II will place a new intake in the water of Jordan Creek. The old intake will be replaced. Estimates of cut and fill materials for the new Jordan Creek intake have not been determined at this time.

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

Pond 23 will not require any new surface water diversion, because this project provides repairs to a weir in an existing earthen pond. The Jordan Creek pipeline is attached to an operational water intake water system, no changes in surface water diversions are proposed. When the Jordan Creek Intake (Phase II) design is finalized it will continue to divert water into the Jordan Creek Pipeline, in accordance with current water rights.

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

Yes, the proposals are within 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.

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.

The new well #5 will withdraw water according to current water rights.
No other component of this project will affect ground water.

- 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 materials will be discharged into the ground from any component 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.

Stormwater patterns will not change as a result of the maintenance repair of pond 23 or the installation of the new Jordan Creek pipeline or the new Jordan Creek Intake.

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

No. Best Management Practices will be used to prevent any discharge of waste materials.

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

Construction will not be performed in heavy rain or flood conditions to avoid erosion from entering Jordan Creek during the pipeline excavation and backfilling activities. Best management practices will be used around Jordan creek such as siltation fences and hay bales.

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?

No removal of vegetation is anticipated to be a component of this project. If vegetation is disturbed, plants will be restored with native plants found on site.

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

None.

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

No restoration plantings are proposed for Pond 23. The pipeline will have grass seed spread at project conclusion.

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:

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.

Hatchery Creek (Drainage Ditch)

No listed species present.

Clark Creek: Steelhead (near pond 23): however, this listed species is not present at the project location due to blockages (dam weir near pond 23).

Cascade River (near Pond 23): Bull trout, Chinook, and Steelhead but these species are not present at the project location.

Critical Habitat: There is critical habitat for Chinook in the Cascade River (48.5218,-121.4315) and upstream to the (nearest) end point in Found Creek (48.4816,-121.2437), however there is no critical habitat for Chinook at the project location. Critical Habitat for Steelhead is under development.

OTHER: Coho are present in the Cascade River and in Clark Creek; however they are a *species of concern* with no critical habitat, and not a federally listed species. No other state or federally listed species are present at the project location. No species of plants, special habitat areas are present at the project location.

Spotted Owl foraging area (DNR) is more than 6,000 feet from the project location.

The intake from Jordan Creek and the supply and drainage pipes have blockages that prevent any species from entering the project location.

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

No endangered species are expected to migrate through the project area for Pond 23 or the Jordan Creek Pipeline. For the Jordan Creek Intake construction, fish exclusion and fish removal and project timing windows will prevent fish migration into the work area. The only species expected to be present are deer, elk and small mammals. Spotted Owl foraging area (DNR) is more than 6,000 feet from the project location.

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

None.

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.

None.

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? If so, describe.

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.

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.

Typical construction machines will generate noise from this project during normal working hours of 7 a.m. – 5 p.m. Construction activities are temporary and will terminate at project conclusion. No noise will come from the completed projects.

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?

The adjacent properties area rural natural properties, with some residences nearby.

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

No.

c. Describe any structures on the site.

At the Marblemount Hatchery there are hatchery outbuildings, fish raceways and holding ponds, a vault toilet, parking lots, and staff residences. A main office building is near the property entrance.

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

The old Jordan Creek pipeline will be abandoned in place, and not removed from the current location. Pond 23 will have additions to the existing structure. The new Jordan Creek Intake will be removed and a new one installed.

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

Rural Reserve

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?

N/A

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

Endangered fish species are near the proposed project. Portions of the Hatchery area are within FEMA A6 flood area.

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:

None.

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

All components of this project are compatible with projected land uses and plans for the Marblemount Hatchery.

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?

Pond 23 will have a railing installed at approximately 6 feet above ground surface. The pipeline will be installed underground.

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?

None.

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?

Hunting, fishing, wildlife viewing and outdoor recreational opportunities are nearby.

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

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation 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.

No. None are known for these project components.

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

A cultural resource study was performed for this proposed project including the areas of the Jordan Creek pipeline, well #5, and new Jordan Creek Intake area. This study was dated February 19, 2013. No archeological findings were discovered.

Cultural resources studies have also been performed at the Marblemount Hatchery for past projects in 1981, and 2009, and 2012. Although the Marblemount Hatchery grounds have been classified as an archaeological area of interest, previous archeological studies have not identified any artifacts.

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

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).

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.

Highway 20, Rockport Cascade River Road and Fish Hatchery Road serve this site.

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

The nearest public transportation stop is unknown.

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

None.

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.

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.

None.

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.

These utilities are available nearby in the Hatchery offices.

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.

None.

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: *Cynthia Hudge*

Date Submitted: *3/22/2013*