Washington Department of FISH and WILDLIFE

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:** Hog Canyon Lake Dam Repair

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: Cindy Knudsen
Fish and Wildlife Biologist
Telephone Number: (360) 902-8422
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E-Mail: cindy.knudsen@dfw.wa.gov

4. **Date checklist prepared:** June 8, 2010

5. **Agency requesting checklist:** Washington Department of Fish and Wildlife.

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

   Summer 2010.

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

   No.

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

   A SEPA DNS has been prepared for general maintenance for WDFW dams, including the Hog Lake Access site. The repairs addressed in this SEPA checklist are not covered by the general maintenance DNS.

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 Spokane County Shoreline Exemption 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.

The Dam located at the Hog Lake Access Area needs to be upgraded to meet Washington State Department of Ecology current regulations. To meet these standards the crest of the dam needs to be raised 2 feet.

The Hog Lake Access Area includes a dam with a concrete spillway, a spillway channel, and a boat ramp. There is a small parking area, barrier rock, and existing fencing. Twelve feet across the top of the dam is covered with vegetation and sod. Existing crest elevation of the dam is measured at 104.5 feet. The slope on the lake side of the dam is 1.5:1, with the other slope measuring 2:1.

Repairs to this site will all be conducted above OHW. Vegetation and sod materials will be removed across the top of the dam, and the crest of the dam will be raised to 106.6 feet, using 650 cubic yards of low compacted permeable fill material. These materials will be compacted to 95 % to match existing materials. The dam crest will be maintained with the appropriate surfacing to facilitate the inspection and maintenance of the dam. The slope on the lake side of the dam will be changed to 2.5:1 to match existing grade. Best Management Practices will be used including geo-textile fabric on slopes and using standardized compaction and soil testing methods. Eight trees will be removed on access site on the east side of the dam with the stumps and roots remaining in place, to avoid embankment erosion. Barrier rock will be moved, and replaced as required. The existing boat ramp will be regraded to a 15% grade.

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 proposed project site is within the Hog Mountain Access Site. The site is reached by taking exit 252 from Interstate 90. Continue south on Sprague Highway Road E. (Old State Highway). Turn East on Lake Valley Loop Road (Turns into Jack Brown Road). Follow Jack Brown Road to the Hog Canyon Lake Site. This project is located in Spokane County, Section 30, Township 22 North, and Range 40 East. Lat / Long. 47.37379417,-117.8100238.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (underline one): flat, <u>rolling</u>, hilly, steep slopes, mountainous, other_____.

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

15% 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 HvC - Hesseltine very rocky complex

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.**

Repairs to the Hog Lake Access site will include installation of 650 cubic yards of fill. This fill material will be a 3 inch minus well graded material, with at least 20% passing the number 200 sieve. Fill will be placed as to avoid any detrimental segregation that could yield pockets of highly pervious nested gravel, and compacted to match existing materials. The added materials will be compacted to 95 percent. The existing boat ramp will be regraded to a 15% grade. The dam crest will be maintained with the appropriate surfacing to facilitate the inspection and maintenance of the dam. These materials will come from a local quarry.

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

Yes, construction activities will temporarily disturb surfaces. We do not anticipate any significant erosion from this maintenance and repair activities. BMPs will include sediment fencing, hay bales, etc.

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

There will be no increase in impervious surfaces as a result of this maintenance and repair activity.

h. **Proposed measures to reduce or control erosion, or other impacts to the earth, if any:** The following best management practices will be employed:

- Heavy equipment required for the removal of debris and silt that blocks dam structures will be operated from the bank or top of dam.
- Extreme care will be taken to ensure no petroleum products, hydraulic fluids, chemicals (other than those approved for aquatic vegetation control), or any other toxic materials are allowed to enter or leach into state waters. Equipment (large and small) will be inspected daily prior to use to ensure that no fluid leaks are present.
- Operation of equipment will follow all requirements and safety precautions during times of high fire danger, including daily hour limits and complete operation closures when required.
- All materials removed will be disposed of at an approved upland location in a manner that will prevent it from re-entering waters of the state.
- Prior to grading of dam surfaces, erosion control methods such as sediment fencing and hay bales will be employed if necessary to prevent sediment from entering state waters.
- Erosion impacts will be reduced by placing a sediment barrier around the construction sites to isolate the disturbed area from surface waters.

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.**

Hog Canyon Lake is in the project site. Hog Canyon Lake is connected to Fishtrap Lake.

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 are directly adjacent to Hog Lake (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 materials will be placed in or removed from surface water or wetlands.

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.

Stormwater in the area sheet flows from impervious road surfaces onto adjacent farmland and is infiltrated before reaching surface waters. This project will not change storm water runoff patterns.

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:** None.

4. **PLANTS**

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

___ **deciduous tree: alder, maple, aspen, other**

_x_ **evergreen tree: fir, cedar, pine, other; Sitka spruce**

___ **shrubs**

_x_ **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?**

Eight trees will be removed from the east side of the work area (see site drawings). The stumps will remain in place at the site.

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

Howellia aquatilis (2,050 feet away)
Silene spaldingii (Spalding's Silene) (1,750 feet away)
This project is outside the buffer for both plants.

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

Disturbed ground above ordinary high water will be planted with cuttings taken from on-site.

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: 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.

Priority Habitat PHS data indicates:
Wetlands vegetation, waterfowl nesting, heron foraging, winter use bald eagles.

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

No

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

None. All activities will be restricted to time windows enacted to avoid impacting threatened and endangered fish and wildlife species that may be present.

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 8 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 used as a wildlife area to provide public access for fishing opportunities and protect valuable wildlife habitat.

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

No.

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

Structures on this site include a gravel boat launch, a vault toilet and small parking area.

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

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

RCV

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

Rural Conservation

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

Natural

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

Yes. The **Rural Conservation (RCV)** zone applies to environmentally sensitive areas, including critical areas and wildlife corridors. Criteria to designate boundaries for this classification were developed from Spokane County's Critical Areas ordinance and Comprehensive Plan studies and analysis. This classification encourages low-impact uses and utilizes rural clustering to protect sensitive areas and preserve open space.

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:**

Repair of the Hog Canyon Lake access site will provide repairs, ensuring safe public access to this site.

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?**

The Hog Lake Access Area earthen dam currently has an elevation of 104.5 feet. This proposal will raise this elevation to 106.6 feet using 3 inch minus compacted material.

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 may produce minimal 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 fishing opportunities at this site. There are also waterfowl viewing opportunities available at this wildlife access area.

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

No recreational activities will be displaced. Access to the wildlife access area will be preserved.

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 known.

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 excavation will occur.

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.

Interstate 90, Sprague Highway East, Valley Loop Road (old highway) and Jack Brown 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 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, repairs will be made only to the dam elevation, and regrading a boat ramp. No service road repairs are anticipated.

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

There is no established water, air or rail transportation nearby.

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

No change in WDFW staff vehicle trips will occur.

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: Cindy Knudson **DATE SUBMITTED:** 6/14/2010