

SEPA ENVIRONMENTAL CHECKLIST

A. Background

1. Name of proposed project, if applicable:

Douglas County PUD Columbia Cove Shoreline Stabilization – Brewster, WA

2. Name of applicant:

Public Utility District No. 1 of Douglas County

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

Scott Kreiter
1151 Valley Mall Pkwy
East Wenatchee, WA 98802
509-884-7191
Scottk@dcpud.org

4. Date checklist prepared:

April 13, 2017

5. Agency requesting checklist:

Public Utility District No. 1 of Douglas County

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

Upon receipt of shoreline permits and during the low reservoir tentatively scheduled for September 2017

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

There are no plans for future additions, expansions, or further activity related to the proposal.

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

OHWL Delineation

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.

Shoreline Substantial Development Permit (City of Brewster)

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

Shoreline Substantial Development Permit (City of Brewster)

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 will consist of bank excavation and grading, installation of stair stepped shoreline protection and rock tree root protection consisting of precast concrete panels, geotextile fabric, riprap, railroad ballast, and crushed surfacing to stabilize the Columbia Cove shoreline and protect the existing mature trees located at the top of the bank. This erosion is expected to continue if not stabilized. All work associated with this project will occur landward of the OHWM. The design of the shoreline stabilization/protection will secure and stabilize the shoreline with geotextile fabric and riprap being used to protect existing trees and stair stepped precast concrete panels to eliminate further erosion, eliminate the public safety hazard created from areas of near vertical shoreline, and increase the quality and quantity of the riparian and aquatic habitats.

The proposed bank protection will be approximately 875 feet in length. All excavation and grading shall be landward of the OHWM. The distance from the OHWM landward varies due in the existing erosion to the shoreline. Excavation below the OHWM will entail the removal of approximately 2 feet of substrate. These substrates will be placed in the upland portion of the park for reuse in the project. Following excavation, the shoreline will be graded to a 3H:1V slope from the OHWM to the landward extent of the proposed excavation. The excavation above the OHWM will disturb approximately 5,200 square feet and will remove approximately 35 cubic yards of material (based on the existing OHWM). The material will be removed and disposed of at an appropriate upland site (outside of the 200 foot shoreline zone).

The proposed project would have very little, if any impact on the existing habitat functions and values at the Columbia Cove Park based on the lack of riparian vegetation, heavy public use, and small area of impact. The existing conditions of the shoreline and riparian area have already been significantly disturbed as part of the construction and operation of the Columbia Cove Park, which reduced the level of habitat functions and values typically provided by these habitat types. Specifically, the riparian area consists of lawn grass and weedy species and several mature trees. The shoreline immediately above the OHWM consists of an actively eroding shoreline. No work will be completed waterward of the OHWM.

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 proposed project is located at the Columbia Cove Park in the City of Brewster, WA. Site address is 604 W. Bruce Avenue. Parcels 3024140064 and 3024140112. Section 14, Township 30 North, Range 24 East; 48.092° N Lat. / 119.787° W Long.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

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

The property above the top of the bank is nearly flat and planted in grass.

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

Approximately 60% at the top of bank.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Soils above the OHWM consist mainly of silty sands with cobbles.

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

The purpose of the proposed project is to stabilize the eroding shoreline at the Columbia Cove Park.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The quantities of excavation, fill, and grading will be discussed in relation to the existing OHWM. The proposed project should occur in the dry during a low reservoir draw down in the dry. The proposed project will result in the excavation of an estimated 450 cubic yards of silty sands and cobbles to allow for the installation improvements above the OHWM.

Three types of improvements for shoreline will be made as follows:

Following the excavation geotextile fabric and riprap will be placed from OHWM upland to protect the exposed tree root systems. Each tree location will be approximately 5 feet wide, 20 feet long with a 2 foot depth of riprap resulting in 100 square feet of disturbance per tree for a combined total of 300 square feet. A total of 22 cubic yards of riprap will be used in the project. See Sheet 7 of 7 for cross section.

The first 175 foot section of stair stepped protection is for the swim area which will be constructed using geotextile fabric to cover the excavated area and wrap the railroad ballast and crushed surfacing base course prior to installing three stair stepped precast concrete panels. See Sheet 5 of 7 for cross section. Approximate quantities installed in this section are all landward of the OHWM are as follows.

- Geotextile Fabric, 2,450 square feet,
- Railroad Ballast, 32 cubic yards,
- Crushed Surfacing Base Course, 18 cubic yards,
- Precast Concrete Panels, 132 each (Panels are approximately 4 foot long, 2.4 feet wide and 0.5 feet deep.),
- Installed Impervious Surface, 767 square feet.

The second 640 foot section of stair stepped protection will be constructed using geotextile fabric to cover the excavated area and wrap the railroad ballast and crushed surfacing base course prior to installing four stair stepped precast concrete panels. See Sheet 6 of 7 for cross section. Quantities installed in this section are all landward of the OHWM are as follows.

- Geotextile Fabric, 9,600 square feet,
- Railroad Ballast, 119 cubic yards,
- Crushed Surfacing Base Course, 91 cubic yards,
- Precast Concrete Panels, 640 each. (Panel are approximately 4 foot long, 2.4 feet wide and 0.5 feet deep.),
- Installed Impervious Surface, 3,443 square feet.

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

The purpose of the project is to protect the existing shoreline from continued erosion. The proposed construction should not result in erosion, but Best Management Practices will be used to limit erosion.

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

The proposed project would increase the the impervious surface area (surface area of the exposed precast steps) by approximately 4,210 square feet.

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

No erosion is expected to occur as a result of the project so no control measures are being proposed.

2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.**

During construction, short-term emissions will occur from construction equipment being used on site. Long-term, the project will not increase emissions.

- 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 proposed.

3. Water

- a. Surface Water:**

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

The property is located along the Columbia River.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

Yes. The proposed project will take place within 200 feet of the OHWM.

- 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 material will be placed or removed from surface waters or wetlands.

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

None. All work should be landward of the OHWM and timed with low reservoir elevations.

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

No. There is no mapped floodplain on the Columbia River in this location.

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 waste materials will be discharged.

b. Ground Water:

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

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 materials will be discharged.

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.

Due to the flat topography of the park, no surface water runoff management will be needed. The proposed project will not change the existing drainage at the site.

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

No waste materials will enter ground or surface waters.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No

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

None proposed.

4. Plants

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

 deciduous tree: alder, maple, aspen, other

 x evergreen tree: fir, cedar, pine, other

 x shrubs

- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

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

The proposed project will protect the existing mature trees at the top of the bank. The vegetation present on the shoreline consists of lawn grass and weedy species. The excavation for the proposed improvements will result in the disturbance of approximately 4,180 sq ft of the existing lawn grass.

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

Species listed under the ESA that may be present in the vicinity of the project include Ute ladies'-tresses (*Spiranthes diluvialis* – threatened). No Ute ladies'-tresses were identified on site, and suitable habitat is not present.

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

Seeding and sod placement will be done to restore lawn areas adjacent to precast panels disturbed during construction.

e. List all noxious weeds and invasive species known to be on or near the site.

Vegetation present on or adjacent to the subject property includes yellow flag iris, blackberry, and Siberian elm. Milfoil is present near the site.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

- birds: hawk, heron, eagle, songbirds, other:
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other _____

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

Species listed under the ESA that may be present in the vicinity of the Project Area include the Upper Columbia River Spring-run Chinook salmon (*Oncorhynchus tshawytscha* -

endangered), Upper Columbia River steelhead (*O. mykiss* – endangered), Columbia River bull trout (*Salvelinus confluentus* – threatened) and bald eagle (*Haliaeetus leucocephalus* – threatened).

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

Yes. The area is also used as a migration route by waterfowl.

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

The proposed project will have no negative impact on water quality, water supply, recreation, or aesthetics of the Columbia River. The project has been designed to protect the existing shoreline from continued erosion in an effort to protect the existing large trees and the safe public use of the park. The project will eliminate the existing eroding bank and provide a more stable, vegetated shoreline that will result in a greater level of habitat function. The project will also protect the existing large trees. Without the proposed project, the existing large trees will eventually fall over into the river, which would eliminate the riparian function provided. The protection of these trees will protect the existing riparian functions at the site.

The proposed project will also significantly minimize the potential impacts by completing the construction during a low reservoir draw down allowing the work to be completed in the dry. The PUD is proposing to lower the reservoir in September 2017 (for other maintenance activities) and this will partially dewater the site. By completing the project in the dry, all potential construction impacts will be eliminated.

Best Management Practices (BMPs) would be employed to reduce the potential for construction-related impacts on species and habitats. The following BMPs will be followed for this project.

- A Spill, Prevention, Control, and Countermeasure (SPCC) plan will be developed by the contractor prior to the commencement of any construction activities and will be used for the duration of the project.
- A copy of the SPCC plan with any updates will be maintained at the work site by the Contractor and will provide advanced planning for potential spill sources and hazardous materials (gasoline, oils, chemicals, etc.) and will outline roles and responsibilities, notifications, inspection, and response protocols.
- Care will be taken to prevent any petroleum products, chemicals, or other toxic or deleterious materials from entering the water. If a spill were to occur, work would be stopped immediately, steps would be taken to contain the material, and appropriate agency notifications would be made. Fuel hoses, oil drums, or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills.
- All upland soil disturbed areas will be protected in accordance with standard BMPs as outlined in the WA Department of Ecology Stormwater Management Manual for Eastern

Washington. A detailed Upland Erosion & Sediment Control Plan will be developed by the Contractor prior to the start of construction. The Plan will include descriptions of project site specific work equipment, activities and approaches, and the corresponding BMPs and Water Quality Protection measures that will be implemented for conformance with the permit requirements and conservation measures outlined herein.

- Excess or waste materials will not be disposed of waterward of the OHWL, or allowed to enter waters of the state.
- The contractor shall have a spill containment kit, including oil absorbent materials, on site to be used in the event of a spill or if any oil product is observed in the water.
- The contractor will be required to capture any debris associated with project construction and not allow it to enter the Columbia River
- Stormwater catch basins within the vicinity of the work area will be protected with inserts in accordance with WDOE Standard BMP #C220. This will include structures within areas that receive stormwater runoff from proposed access locations and upland work areas within the project area limits.
- Turbidity and other water quality parameters will be monitored to ensure construction activities are in conformance with Washington State Surface Water Quality Standards, or other conditions as specified in the WDOE Water Quality Certification (WQC).
- Appropriate BMPs will be employed to minimize sediment loss and turbidity generation during excavation, re-handling, rock installation and other earth disturbing activities.

e. List any invasive animal species known to be on or near the site.

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.

No energy will be required to meet the completed projects need.

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 proposed.

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 environmental health hazards are associated with this project.

- 1) **Describe any known or possible contamination at the site from present or past uses.**

None known.

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

None known.

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

None known.

- 4) **Describe special emergency services that might be required.**

None required

- 5) **Proposed measures to reduce or control environmental health hazards, if any:**

Environmental health hazards are not expected through the development of this project. Only approved construction materials will be used in construction of this project.

b. Noise

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

No noise exists in the surrounding area that would affect the project.

- 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 equipment operation (excavator and truck noise) will occur at the site. This noise will only occur during construction activities and will be limited to daylight hours. Long term use will be the same as the existing level of noise.

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

None proposed.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The current use of the property is a public park and boat launch, with associated parking, jointly owned and operated by Douglas PUD and the City of Brewster. The upland is primarily lawn grass, paved parking areas, access roads and park amenities (covered picnic areas, playground, etc). The use of the adjacent upland properties are residential (with existing single family residences), transportation (7th St N and W Bruce Ave), orchards, public facilities (operated by the City of Brewster) and open public area. The current use of the adjacent property waterward of the OHWM is public lands associated with the Wells Hydroelectric Project.

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

No

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

No

c. Describe any structures on the site.

Structures currently on the property include a boat launch, two handling docks, playground, basketball court, pump house, two bathrooms and three covered picnic areas.

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

No

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

Public Use

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

Public Use

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

Suburban

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No; however, the shoreline of the Columbia River (aquatic and riparian) are protected.

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 proposed.

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

Approval for this project will be obtained from the City of Brewster.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

None proposed.

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 proposed.

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?

No buildings or structures will be constructed as part of this project.

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

None

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

None proposed.

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 proposed.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Informal recreational opportunities in the immediate vicinity include fishing, boating, water skiing, and other typical water sports.

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 proposed.

13. Historic and cultural preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

The site is within the Lake Pateros Archaeological District; no contributing sites are known to be within project boundaries.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material

evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

This area has been previously disturbed during construction of the park. Douglas PUD consulted with the Washington State Department of Archaeology and Historic Preservation, and with the Confederated Tribes of the Colville Reservation on this project with a finding of No Historic Properties Affected. Correspondence is available upon request.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

Contractors and workers will be informed to immediately stop work if artifacts of historical or cultural importance are found. If any are found, work will immediately stop and the land owner (Douglas PUD) will be notified along with the Washington State Historic Preservation Office.

14. Transportation

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

SR 97 passes through Brewster, which provides access to 7th St N, which provides access to Bruce Ave. and the park.

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?**

No

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?**

No new parking spaces will be required or eliminated as part of this project.

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).**

No

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

The project will not facilitate a transportation use. The primary access to the site is and will continue to be by road.

- e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

No vehicular trips would be generated by the completed project.

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No

- h. Proposed measures to reduce or control transportation impacts, if any:

None proposed.

15. Public Services

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

The proposed project will not result in an increased need for public services.

- b. Proposed measures to reduce or control direct impacts on public services, if any.

None proposed.

16. Utilities

- a. Circle 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 new utilities are proposed or required for 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: _____

Name of signee Scott Kreiter

Position and Agency/Organization Land-use Representative, Public Utility District #1 of Douglas County

Date Submitted: _____