

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals: [\[help\]](#)

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [\[help\]](#)

1. Name of proposed project, if applicable: [\[help\]](#)

Rainey Creek Bridge Bank Stabilization

2. Name of applicant: [\[help\]](#)

Washington Department of Fish and Wildlife (WDFW)

3. Address and phone number of applicant and contact person: [\[help\]](#)

Chris Gourley, 600 Capitol Way North, Olympia, WA 98501, 360-902-8392

4. Date checklist prepared: [\[help\]](#)

March 26, 2018

5. Agency requesting checklist: [\[help\]](#)

WDFW

6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

Summer 2018

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#)

None

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. [\[help\]](#)

No

10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#)

Lewis County Shoreline Permit, WDFW HPA

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.) [\[help\]](#)

The Rainey Creek Pedestrian Bridge is located near the town of Glenoma in central Lewis County. This 85' pre-fabricated gangway style aluminum bridge, installed in 2003, is open to public pedestrians to access the Kosmos Unit of the Cowlitz Wildlife Area. This bridge is in need of some moderate embankment repair and armoring to prevent further erosion of the embankment directly below the bridge's East approach and abutment. The work will entail the engineered placement of large woody debris and rocks above OHWM. Seven logs will be placed along the shoreline; five will act as toe logs parallel to the bank and two will serve as barb logs, jutting into the creek to provide habitat and help direct flows. Logs will be secured with cables and manta ray anchors and barb logs will be chained to tie down piers. There will be no excavation below OHWM and all logs will be installed by pushing into the bank. Armoring of the shoreline above the logs will be conducted using quarry spalls and geotextile fabric.

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. [\[help\]](#)

From Hwy 12, turn south onto Glenoma Rd. The site access is across from Glenoma Community Park along an unnamed gravel road at the approximate address 399 Glenoma Rd. The road ends at the bridge site. The parcel number is 030674000000. It is within Section 22, Township 12N, Range 05E of Lewis County.

B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

1. Earth [\[help\]](#)

a. General description of the site: [\[help\]](#)

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

b. What is the steepest slope on the site (approximate percent slope)? [\[help\]](#)

The embankment to the creek is steep and is greater than 100%.

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. [\[help\]](#)

Where the work is proposed, the soils are mapped as Newberg fine sandy loam. Other soil types mapped nearby are Andic Xerumbrepts, steep; Cispus cindery sandy loam; Glenoma very cindery loam; Klaber silt loam; and Newaukum gravelly silt loam.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [\[help\]](#)

No; only alluvial movement and channel migration.

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. [\[help\]](#)

Fill will consist of logs, geotextile, and quarry spalls on the right bank of the creek. Approximately 96 square feet of area will be covered in geotextile and quarry spalls. Five logs along the shore will impact roughly 44 feet of the right bank. Two barb logs will protrude roughly 20 feet into the channel.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#)

No clearing will occur and the construction will be done from the top of bank. The project aims to reduce erosion from the stream and storm flows by stabilizing the bank and placing LWD. We do not anticipate erosion from construction activities.

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

No new impervious surfaces are being added.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)

Geotextile fabric will be placed under quarry spalls to help with erosion. Standard construction BMPs including silt fence will be used as needed on the site.

2. Air [\[help\]](#)

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. [\[help\]](#)

Construction will be of short duration and will utilize modern machinery for materials transport.

Emissions are not expected to increase significantly while construction is occurring.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#)

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)

All equipment will be fit with modern emissions controls.

3. Water [\[help\]](#)

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. [\[help\]](#)
Rainey Creek is the creek that the pedestrian bridge crosses and that the work will be conducted on. This is a fish-bearing stream and flows into Riffe 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. [\[help\]](#)
Placement of logs occurs below OHWM, but without any excavation or soil manipulation. Above OHWM, the rip rap and geotextile will be placed to help secure the abutment and the shoreline.
- 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. [\[help\]](#)
There will not be any imported fill or removed dredge material other than the addition of the logs along the shoreline. Logs will be locally sourced if possible.
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. [\[help\]](#)
There will not be surface water withdrawals or diversions.
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#)
The proposal is within the 100 year floodplain Zone A, per FEMA panel # 5301020525B.
- 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. [\[help\]](#)
No waste materials will be discharged to surface waters.

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. [\[help\]](#)
No groundwater will be withdrawn.
- 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. [\[help\]](#)

No waste material 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. [\[help\]](#)

This project will not alter runoff source or collection method. Runoff will still drain to Rainey Creek.

- 2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)

There will not be any waste materials discharged.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [\[help\]](#)

This project will not alter or affect drainage patterns.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [\[help\]](#)

No measures are proposed. During construction, standard BMPs will be in place to reduce any potential impacts.

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site: [\[help\]](#)

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

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

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? [\[help\]](#)

No vegetation is anticipated to be removed or altered.

c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

Golden paintbrush, water howellia, and Kincaid's lupine are all listed in Lewis County as threatened plants.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)
Sitka willow stakes will be planted at 18” on center in the disturbed banks, accounting for roughly 200 square feet of native plantings.

- e. List all noxious weeds and invasive species known to be on or near the site. [\[help\]](#)
Any noxious weeds on the site will be eliminated by manual methods or by spray. None are known.

5. Animals [\[help\]](#)

- 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. [\[help\]](#)

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. [\[help\]](#)
Gray Wolf, North American wolverine, marbled murrelet, Northern spotted owl, yellow-billed cuckoo, and bull trout are all listed on the iPAC webpage for this project area.

- c. Is the site part of a migration route? If so, explain. [\[help\]](#)
The site is not a part of a known migration route. While birds may utilize this area for migration, activities are not anticipated to disrupt the patterns.

- d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)
The addition of large woody debris to the creek is intended to improve habitat conditions through surface and stream complexity. Work will be done during times when fish are less likely to be present.

- e. List any invasive animal species known to be on or near the site. [\[help\]](#)
None are known.

6. Energy and Natural Resources [\[help\]](#)

- 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. [\[help\]](#)

No energy sources will be added for this project.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [\[help\]](#)

This project will not affect potential use of solar energy by adjacent properties.

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: [\[help\]](#)

There are no proposed energy conservation features included in the proposal.

7. Environmental Health [\[help\]](#)

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. [\[help\]](#)

None are anticipated. During construction, possible hazards will be on site, but risk will be reduced through safe practices.

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

[\[help\]](#)

None.

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. [\[help\]](#)

None.

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. [\[help\]](#)

Fuels may be stored on site and used during construction. These will be kept away from water when possible and will be stored in upland areas.

4) Describe special emergency services that might be required. [\[help\]](#)

No emergency services will be required, but the site is accessible by emergency vehicle if needed.

5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)

No environmental health hazards exist. If any are discovered during work, WDFW policies and protocol will be followed.

b. Noise [\[help\]](#)

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

No noise exists in the area which may 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. [\[help\]](#)

Noise will only be affected short term by construction activities and equipment use. The project will likely include machinery such as a dump truck and at least one excavator. An air hammer is also used to set the anchors in place for the log cables. We expect temporary noise of up to 90 dBA maximum at a distance of 50 feet (WSDOT BA Manual).

3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)

No measures are proposed.

8. Land and Shoreline Use [\[help\]](#)

- 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. [\[help\]](#)

The site is currently part of the Kosmos Unit of the Cowlitz Wildlife Area. The site is intended for public access. Adjacent properties include lands owned by City of Tacoma (City Power) and residences.

- 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? [\[help\]](#)

Where the work is being conducted, there has not been working farm or forest in the recent future. The pedestrian bridge that is to be protected has been in place for over a decade for public access.

- 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: [\[help\]](#)

The proposal will not be affected by surrounding working farm or forest land.

- c. Describe any structures on the site. [\[help\]](#)

The pedestrian bridge on the site was installed in 2003 and is in good condition. The creek is threatening the abutment, and the bridge is in need of minor deck and railing repairs.

- d. Will any structures be demolished? If so, what? [\[help\]](#)

No structures will be demolished.

- e. What is the current zoning classification of the site? [\[help\]](#)

RDD-20

- f. What is the current comprehensive plan designation of the site? [\[help\]](#)

Transportation/ Communication Utility

- g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

Conservancy

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

Yes. Wetlands, flood zone, and shorelines have been identified by the county.

- i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

None.

- j. Approximately how many people would the completed project displace? [\[help\]](#)

None.

- k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#)

None.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

Land use will not change with the project.

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)

None. The use of this and adjacent sites will not change with the project. No impacts are anticipated.

9. Housing [\[help\]](#)

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#)

None.

10. Aesthetics [\[help\]](#)

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? [\[help\]](#)

There are no new structures proposed.

- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#)

None.

- b. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#)

The addition of natural logs will add a natural aesthetic appeal.

11. Light and Glare [\[help\]](#)

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#)

None.

- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)

No.

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#)

None.

- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#)

None.

12. Recreation [\[help\]](#)

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)

This area is part of the Kosmos Unit of the Cowlitz Wildlife Area. This area is known for bird watching, boating, camping, dog walking, fishing, hiking, hunting, and wildlife viewing.

- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)

No. While the bridge might be temporarily closed for repairs, no uses will be displaced permanently.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)

Impacts will be temporary and short in duration while the work is being completed. The area will be closed for public safety reasons. As soon as the work is done, the site will be reopened.

13. Historic and cultural preservation [\[help\]](#)

- 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. [\[help\]](#)

There are no buildings, structures or sites located in the project area that are over 45 years old per review of the historic property inventories reported to the online records of the Department of Archaeology and Historic Preservation (DAHP) and a review of historic Government Land Office maps.

- 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. [\[help\]](#)

No landmarks, features or other evidence of Indian or historic use or occupation are known to exist, or to have existed, on the project site. The site is part of an active channel migration zone believed to be relatively stable, hence the placement of the footbridge here, yet this channel shows the erosional pressure common in braided channel migration zones and thus the need for this bank stabilization. Aerial photographs from 1994 show streambed movement in this reach. The Predictive Model available on the DAHP website shows that the project is in an area where there is a high risk of discovering archaeological resources. Known archaeological sites are within 0.5 to 1.0 miles from the bridge location.

- 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. [\[help\]](#)

WDFW conducted its internal cultural resources review, with the archaeologist recommending that a site survey/investigation be accomplished prior to ground-disturbing work. WDFW recently began the cultural resources investigation that will be performed by a professional archaeologist. Consultation is being conducted with those tribes interested in being contacted about projects in this geographical location, and with DAHP staff.

- 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. [\[help\]](#)

A project work zone is established to avoid and minimize potential adverse impacts of the construction activity. A WDFW inadvertent discovery plan will be in place so that if any cultural resources are encountered during construction, construction activities will stop and the inadvertent discovery plan will be followed.

14. **Transportation** [\[help\]](#)

- 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. [\[help\]](#)

The site is accessed via Glenoma Rd, which is off Hwy 12. There is a gated road the bridge is accessed from. This is a pedestrian bridge only and is intended for walk-ins only.

- 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? [\[help\]](#)

This area is not served by public transit. The closest transit stop is in Chehalis.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)

None. No parking will be added or removed.

- 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). [\[help\]](#)

The pedestrian bridge will have repair work done, including railing and decking replacements where needed. This is a public site.

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

No.

- f. 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? [\[help\]](#)

WDFW does not anticipate an increase in vehicular trips due to work proposed.

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. [\[help\]](#)

No.

h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#)

None. Transportation impacts are not anticipated.

15. Public Services [\[help\]](#)

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. [\[help\]](#)

No. The site use will not change.

b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)

None proposed.

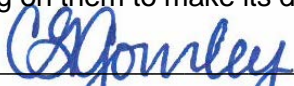
16. Utilities [\[help\]](#)

a. Circle utilities currently available at the site: [\[help\]](#) ~~NONE~~
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. [\[help\]](#) ~~NONE~~

C. Signature [\[help\]](#)

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 ___Christina L Gourley_____

Position and Agency/Organization ___WDFW Biologist_____

Date Submitted: ___03/26/2018_____