

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:

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: **Keys Road Flood Protection Project**
2. Name of applicant: **Grays Harbor County Department of Public Works**

3. Address and phone number of applicant and contact person: **Rob Wilson – 100 West Broadway, Suite 31, Montesano, WA 98563, 360-249-4222**

4. Date checklist prepared: **March 24, 2020**

5. Agency requesting checklist: **Grays Harbor County**

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

The project is anticipated to start in June 2020 and finish in September 2020.

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.

Biological Evaluation Form, JARPA, Critical Areas Report

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 known

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

HPA (WDFW), Clean Water Act Section 401 Water Quality Certification (Ecology), Clean Water Act Section 404 NWP 13 (USACE), Grays Harbor County Critical Areas Review

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 is a bank protection project focused on improving floodplain connectivity, stabilizing river flow paths, protecting Keys Road and the Port of Grays Harbor's well, and reducing rates of erosion along the 1.5 miles of the Satsop River upstream of its confluence with the Chehalis River. The project will use ecologically sensitive solutions consistent with ongoing habitat restoration projects in the basin. Specifically, the project would construct two setback revetments comprised of 18 engineered log jams (ELJs) on the floodplain to protect Keys Road. The project also includes construction of a 1,200 foot-long temporary bypass/side channel, 7 floodplain roughness ELJs, 17 ELJs in the river, and 320 feet of timber complex ELJ directly in front of the Port of Grays Harbor's potable water well. The project objectives are to

reduce high rates of erosion by improving floodplain connectivity and reducing stream power and main channel velocities.

Post-project conditions are anticipated to include reduced erosion and channel migration rates in the vicinity of the two meanders that currently threaten Keys Road and the Port of Grays Harbor well. Post-project instream conditions are anticipated to include higher quality habitat for aquatic species around the installed ELJ structures and along stream margins due to improved floodplain connectivity. Once the system is allowed to return to, and distribute its energy across its historic floodplain, less intensive approaches to improving habitat function and reducing bank erosion can be used.

The project site is located within 207 acres adjacent to the Lower Satsop River. The project itself will have direct temporary impacts to 10 of these acres.

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.

**110 Keys Road, Montesano, WA, 98563 Grays Harbor County
¼ Section NW ¼, Section 6, Township 17N, Range 6W**

B. Environmental Elements [\[HELP\]](#)

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

a. General description of the site:

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

b. What is the steepest slope on the site (approximate percent slope)? 10%

Topography of the project area is relatively flat with higher cut banks along the western bank of the river outside of the project area and an area of higher elevation sidecast along the northern edge of the ponds.

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.

Loam. Either clay or silt loam. Three of the soil types within the project area are considered to be hydric soils - Fordprairie-Eld-Rennie complex, Fordprairie-Roundtree complex, and Roundtree loam.

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

No, with exception of steep cut bank along river subject to erosive forces from the river.

- 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.

In total, the project will require excavation of approximately 33,256 cubic yards of material to construct the ELJs and the temporary bypass/side channel. Material excavated for construction of the ELJs will be used to backfill the structures and thus will be replaced in situ. No material will be removed from the site and no additional material will be brought in. No placement of fill is proposed.

The portion of the total excavation associated with work in wetlands and below OHWM are detailed below.

A portion of the wetland (PFO6) will be excavated so that a setback revetment can be constructed along its edge. The volume of material excavated from the wetland is estimated as 4,243 cubic yards and will be excavated using a track mounted excavator with a 2 CY bucket. The majority of the material excavated from the wetland (approximately 3,943 CY) will be placed back on top of/integrated into the revetment along the wetland edge after construction is complete. The approximate volume of material that will be placed back accounts for the approximately 300 CY volume of wood associated with the revetment that will be placed in the wetland.

Assuming 30% swell of excavated material there will be approximately 1,572 CY of material that will need to be placed elsewhere on site. Excess excavated material will be distributed on site in upland areas (e.g. access and staging areas) and will not be placed as fill to wetlands or waterbodies.

A temporary bypass/side channel will be excavated as an isolation/dewatering measure to support in-water construction of the Type 1 Apex and Type 1 Deflector ELJs just upstream of the proposed bypass channel. This excavated material (i.e. native river material) will total 8,772 CY and will be used to fill cofferdam sacks that will be used to deflect flows from the mainstem into the bypass channel. Some of the excavated material will also be used in the Floodplain Roughness ELJ and to backfill the other ELJs constructed in this vicinity. The temporary bypass/side channel will re-route flow across an existing gravel bar so that the largest group of structures with the most piles can be constructed in the dry. This bypass/side channel will then gradually be reworked by the river's flow and continue to provide aquatic habitat functions. None of the material will be removed from the site or from the immediate vicinity of the excavation.

Access and staging areas will temporarily impact vegetation within 4.9 acres of critical areas buffer, but do not require any excavation or placement of materials.

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

Possible erosion during construction activities due to exposed soils.

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

None

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

Construction BMPs and TESC Plan will be implemented during construction phase. Post construction erosion characteristic of a dynamic river floodplain/channel will be expected.

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.

There would be emissions associated with the operation of heavy equipment to place/construct the log jams and excavate soils for ELJ placement during project construction. There would be no emissions associated with the project itself once construction concludes.

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 [\[help\]](#)

a. Surface Water: [\[help\]](#)

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 project is being constructed within the floodplain of the Lower Satsop River, within 1.5 miles of its confluence with the Chehalis 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 project is being constructed within the floodplain and along the active channel of the river. The majority of the ELJs will be placed below the OHWM (see attached figure/plan).

- 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.

The volume of material excavated from wetland PFO6 is estimated as 4,243 cubic yards. The majority of the material excavated from the wetland (approximately 3,943 CY) will be placed back on top of/integrated into the revetment along the wetland edge after construction is complete. The approximate volume of material that will be placed back accounts for the approximately 300 CY volume of wood associated with the revetment that will be placed in the wetland.

Assuming 30% swell of excavated material there will be approximately 1,572 CY of material that will need to be placed elsewhere on site. Excess excavated material will be distributed on site in upland areas (e.g. access and staging areas) and will not be placed as fill to wetlands or waterbodies.

Construction of the ELJs and the temporary bypass/side channel will require excavation of approximately 11,802 CY. Material excavated for construction of these ELJs will be used to backfill those structures and thus will be replaced in situ. No material will be removed from the site and no additional material will be brought in.

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

A temporary bypass/side channel will be constructed to isolate and divert the river channel to the east of its current flowpath so that the largest group of structures with the most piles can be constructed in the dry. Excavated material will be used to fill supersacks to build cofferdams out into the existing channel and allow for the construction of the Type 1 Deflector and Apex ELJs upstream of the bypass/side channel. The amount of material excavated below the OHWM is estimated to be approximately 8,772 CY. Following construction, the native streambed material will be spread across an adjacent gravel bar below OHWM. The final elevation/finish grade of the placed native alluvium will be below OHWM and will not convert any waters or wetlands to uplands. This bypass/side channel will then gradually be reworked by the river's flow and continue to provide aquatic habitat functions.

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

Yes. The entire project lies within the 100-year floodplain, and the majority lies below OHWM (see attached figure).

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

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.

N/A

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.

N/A

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.

N/A

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

Temporary degradation to water quality associated with project construction is not anticipated to occur beyond 300 feet downstream of any project-related in-water work.

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:

Appropriate BMPs to avoid and minimize temporary increases in turbidity associated with in-water work will be used consistent with any HPA and water quality certification conditions issued for the project.

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

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

 X 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?

0.33 acres of wetland area will be temporarily impacted due to excavation for the placement of the downstream timber revetment. Plants currently in Wetland PFO6 include red alder, willow, red osier dogwood, snowberry, salmonberry and slough sedge.

An additional 1.2 acres of mainly ruderal grasses and early successional vegetation will be temporarily impacted in upland areas associated with temporary access.

c. List threatened and 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:

All 0.33 acres of temporarily impacted wetland will be revegetated with a mixture of native wetland species which currently occur in Wetland PFO6 (i.e. red alder, willow, red osier dogwood, snowberry, salmonberry and slough sedge).

Temporarily impacted upland areas will be revegetated to match or improve existing conditions with a native upland grass mix or a mixture of native upland trees and shrubs as indicated below.

Trees and shrubs:

red alder (*Alnus rubra*)
 Douglas fir (*Pseudotsuga menziesii*)
 thimbleberry (*Rubus parviflorus*)
 snowberry (*Symphoricarpus albus*)
 beaked hazelnut (*Corylus cornuta*)

Upland grass mix:

blue wildrye (*Elymus glaucus*)
 native red fescue (*Festuca rubra*)
 California brome (*Bromus carinatus*)
 tufted hairgrass (*Deschampsia cespitosa*)
 streambank wheatgrass (*Elymus lanceolatus* ssp. *psammophilus*)

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

Much of the understory in the riparian woodland within and adjacent to the RM 1.5 portion of the study area is a near monoculture of giant knotweed (*Reynoutria/Fallopia sachalinensis*). Other common invasive species within the study area include Himalayan blackberry (*Rubus armeniacus*) and reed canarygrass (*Phalaris arundinacea*). These

invasive species are present interspersed in the riparian woodland and forested wetlands and along the edge of Keys Road.

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.

Examples include:

birds: hawk, heron, eagle, songbirds, other:

mammals: deer, bear, elk, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other _____

During the delineation field work, biologists observed, heard, or saw evidence of the following species within the project area or its immediate vicinity:

- Pacific treefrog (heard),
- Coyote (scat),
- black-capped chickadee (seen),
- downy or hairy woodpecker (sign observed),
- spotted towhee (seen),
- song sparrow (seen),
- Steller's jay (heard),
- American robin (seen),
- American crow (seen), and
- Bewick's wren (seen).

Review of the WDFW Priority Habitat and Species Inventory online data mapper indicated that the general vicinity of the study area at the confluence of the Satsop and Chehalis Rivers supports a variety of priority species and habitats including freshwater emergent, scrub-shrub, and forested wetlands (Washington Department of Fish and Wildlife 2019). Resident coastal cutthroat, dolly varden/bull trout, winter steelhead, summer and fall Chinook, coho, and fall chum are all mapped as utilizing the lower Satsop River adjacent to the study area. Trumpeter swan, big-brown bat, Yuma myotis, and concentrations of waterfowl are all mapped in a broad swath encompassing the floodplain of the lower Satsop River and the mainstem of the Chehalis River, but no particular species point occurrences are mapped within the study area. The PHS database contains two 1979 occurrences of Olympic mudminnow, a state sensitive species, generally along historic channel alignments of the lower Satsop River, but not within the study area.

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

Bull trout presence in the project action area is assumed based on documented historic presence. Bull trout have not been observed or documented in the Satsop River in some time, but they have historically occurred in the Satsop River, which is designated as critical habitat for bull trout.

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

The project area may be used as a migratory corridor for marbled murrelets traveling

between the Pacific Ocean and nest sites located in the Satsop or Chehalis River watershed. The nearest designated critical habitat is approximately ten miles to the east along the Chehalis River and 22 miles to the north along the Satsop River, in Olympic National Park.

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

The project will result in increased complexity within the project area, by installing instream structure in the form of Engineered Log Jams and other in-stream structures. These structures will develop pools and provide cover in the lower Satsop River that could benefit bull trout that may use this area of the Satsop River. The proposed ELJ's are expected to have a direct net benefit to the aquatic habitats of the river.

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

No known species.

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.

N/A

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

N/A

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:

N/A

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.

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.

Fuels and materials associated with the heavy equipment used to construct the project will be onsite during project construction. Equipment to be used includes: pick-up trucks, dump truck, backhoe, grader, trackhoe mounted vibratory pile driver. The staging and refueling area for equipment will be located in an upland area, just off Keys Road and approximately 600 feet from the Satsop River.

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

None

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

The staging and refueling area for equipment will be located in an upland area, just off Keys Road and approximately 600 feet from the Satsop River.

b. Noise

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

Under current pre-project conditions ambient noise levels in a rural setting with a low-speed and high-speed arterial (i.e., Keys Road to the east and Hwy 101 to the north) are approximately 60-70 dBA at 50 feet from the roadway, decreasing to approximately 43 dBA at 3,000 feet.

- 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.

The project is in a rural setting and will require the use of heavy machinery, including a tracked excavator, vibratory pile-driver and a dump truck along the active channel of the Satsop River. The Satsop River is forested along both banks, and the work will occur below the top of the river banks. This will reduce the extent terrestrial construction related noise can travel.

Typical noise levels generated by this type of heavy equipment are around 90 A-weighted decibels (dBA) at 50 feet, decreasing to approximately 60-70 dBA at 3,000 feet. Ambient noise levels in a rural setting with a low-speed and high-speed arterial (i.e., Keys Road to the east and Hwy 101 to the north) are approximately 60-70 dBA at 50 feet from the roadway, decreasing to approximately 43 dBA at 3,000 feet. Thus, construction noise levels are anticipated to be at ambient noise levels at a distance of 3,000 feet (0.57 mile) from the project site, based on the noise buffer provided by the vegetation and the river banks, the rural setting in which the project is located and the noise levels generated by project construction activities.

Equipment will run 10-12 hours per day during the in-water work window of August 1—August 31, due to the compressed timeframe and the extent of work to be completed during this short window. Work in upland areas, gravel bars and the floodplain, that can be completed in the dry may occur before and/or after August 31, if necessary, to complete the project and ensure all in-water work is completed between August 1—August 31.

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

Construction activities will comply with time limits for operations per Grays Harbor County Municipal Code.

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.

Current use is undeveloped forest and Port of Grays Harbor County water supply well.

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.

There is a Port of Grays Harbor water supply well on the site in the SE portion of the project site between Keys Road and the river (see attached figure).

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

No

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

The project area falls within the A2 Longterm Agricultural Use zoning designation in Grays Harbor County.

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

The general area of the project is designated as Agricultural, per Map 4.1 in the County's Land Use and Rural Lands Element of the Grays Harbor County Comprehensive Plan (Agricultural Element adopted 1981).

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

Rural Development Environment

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

Yes. Within the project site there are nine wetlands and their buffers, the Satsop River (fish and wildlife habitat conservation area) and its buffer, a critical aquifer recharge area, a frequently flooded area, and a geologically hazardous 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:

N/A

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

N/A

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

N/A

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

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

N/A

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

N/A

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

N/A

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?

N/A

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

N/A

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

N/A

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

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?

N/A

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:

N/A

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

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

Fishing on foot, fishing from driftboats, and hunting.

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:

Consideration for line of sight of ELJs from the perspective of a boater that would allow visual awareness of potential obstacle and adequate time to respond by maneuvering to avoid obstacle.

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.

There are no buildings, structures or sites located within the project site that are over 45 years old and listed or determined eligible for listing in preservation registers.

The former site of the Fuller School is located approximately 0.9 mile southeast of the project site. The site has been determined to be Potentially Eligible for listing in the National Register of Historic Places.

- 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.

No previously recorded sites are located within the project's proposed area of potential effects (APE).

Four previous cultural resources surveys have occurred within approximately 1 mile of the project site but did not include the project site. Four precontact archaeological resources have been described within a 1-mile radius of the proposed APE. These resources included a precontact campsite recorded in the late 1960's-early 1970's, a precontact lithic scatter directly south of the proposed APE was destroyed soon after discovery by river washout, a 'possible burial' downstream of the confluence of the Chehalis and Satsop Rivers, and an early 1970's record of lithics, fire-cracked rock, charcoal along the Chehalis River downstream of the Satsop River confluence and the proposed project. None of the previously recorded sites are located within the proposed APE.

Two historic-period archaeological resources are recorded within one mile of the proposed APE: a poorly-described refuse scatter directly south of the proposed APE on the north bank of the Chehalis River. The second historic resource is the former site of the Fuller School, which was active between circa 1900 and 1945. None of the building or foundation remains, and the site has been reduced to scattered bricks, glass, ceramics, and fragments of wood stove.

The County contracted for a site-specific cultural resources survey which was performed in February 2020 (ICF 2020); the pedestrian survey and 30 shovel probes did not reveal any evidence of Native American use or occupation, or other materials indicating an important cultural component, within the project site or its proposed APE.

- 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.

As part of their cultural resources reporting for this project, the Washington Information System for Architectural and Archaeological Records Data (WISAARD) database was searched for known archaeological sites/historic properties/graves within or near the project area, as well as local and regional cultural resource studies. A field survey was conducted, which consisted of a pedestrian survey and subsurface testing (including shovel probes excavated to 1 meter deep and hand augers excavated to 2 meters deep) and a report completed to document the findings (ICF 2020). The County will be undertaking consultation with Tribes and the Washington State Department of Archaeology and Historic Preservation (DAHP).

- 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.

An unanticipated discovery plan (UDP) will be prepared if requested as part of the project's federal permitting process. If, over the course of project construction, human skeletal remains are discovered, the Grays Harbor County Coroner and DAHP must be notified immediately. If archaeological materials are uncovered during the Project, Grays Harbor County and their contractors must immediately stop work, and the project manager must contact the Corps as lead federal agency.

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.

Keys Road is directly east of the site.

- 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?

N/A

- 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).

None

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

None

- 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?

None

- 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:

One aspect of the project is road protection for Keys Rd.

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.

No

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

No

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

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

There is a gas pipeline entrenched along the west side of Keys Rd. which will be field located prior to project commencement in the area of the Timber Complex ELJ at the downstream end of the project.

- c. 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 [\[HELP\]](#)

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 _____

Position and Agency/Organization _____

Date Submitted: _____

D. Supplemental sheet for nonproject actions [\[HELP\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

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

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

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

Proposed measures to avoid or reduce such increases are:

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

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

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

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

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

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

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

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

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

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

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