

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: Wenatchee Line Pipe Exposure – Milepost 131

2. Name of applicant: Northwest Pipeline LLC

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

Halli Harris
295 Chipeta Way
Salt Lake City, UT 84108
(801) 584-6453

4. Date checklist prepared: November 20, 2019

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

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

Construction is scheduled early February 2019, but is contingent on permit approvals

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 future plans for construction activity at this location. However, maintenance on the existing pipeline will be ongoing as needed for the life of the facility.

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

An engineering analysis report was prepared to determine the best construction methods for repairing the erosion. A cultural resources survey and report is pending for this project.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

Northwest is not aware of any other government approvals of other proposals affecting the property.

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

A Hydraulic Project Approval is required for this project. In addition, Section 404 review will be conducted by the US Army Corps of Engineers.

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 scope of the project involves installing measures to control channel erosion and prevent future exposure of the natural gas pipeline. To mitigate for continued bank erosion, an approximately 7-foot high gabion basket retaining wall will be installed for a length of 87-linear feet within the channel. The retaining wall will be lined with geotextile filter fabric and backfilled with an imported gravel borrow material. Channel bed stability will be controlled utilizing a 3-foot diameter boulder grade control structure at the downstream extent of the project site.

The pipeline crossing will be armored using an articulated concrete mattress. The rest of the affected channel will be built up to grade using enhanced scour protection material.

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 Project is located in Chelan County, WA
Lat/Long: 47°18'52.89"N 120° 7'5.01"W
¼ Sec.-NE, Sec. 18, T-21N, R-22E
Parcel: 212218000000

Drive approximately 5 miles south of Malaga on Colockum Rd. and turn west on dry gulch road (a private road). Follow this road to the MP 131 crossing.

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)? 20%

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.

GeoEngineers documented the soils on-site as part of the engineering analysis conducted in September 2018. This report stated, "Surficial mapping (United States Department of Agriculture 2018) indicates that surficial deposits at the MP 131 Dry Wash site consist of three distinct surficial deposits. Near the west side of the crossing near boring B-2, Zen-Rock outcrop complex, 25 to 45 percent slopes is mapped. This unit consists of silt loam overlying unweathered bedrock. Near the dry wash and Boring B-3, Beverly gravelly fine sandy loam is mapped that typically consists of gravelly to extremely gravelly fine sandy loam. East of the crossing near boring B-2, Pogue gravelly fine sandy loam, 25 to 45 percent slopes is mapped. This unit consists of gravelly fine sandy loam and extremely gravelly coarse sand. The mapped surficial geology is generally consistent with our field observations, however the surficial geology encountered along the eastern and western margins of the crossing were sandier, not silty or gravelly as mapped (GeoEngineers, 2018)."

According to the Chelan County Zone map, agricultural land of long-term commercial significance is not located within the project site. The property is zoned Rural Residential 20.

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

No areas of slope instability or land movement are mapped within the project area (2018 Washington DNR Landslide Inventory and Landslide Compilation). Risk of mass wasting is limited to the possibility of bank failure

associated with erosion within the MP 131 Dry Wash site. The potential for instability as a result of erosion within the wash was further analyzed by GeoEngineers as part of the engineering assessment conducted in September 2018. Below is an excerpt from that report.

“Based on our evaluation, Dry Gulch and its tributaries have been historically stable except where man made modifications have created locally unstable conditions such as those observed at the subject crossing. The contributing factors at the site include a narrowed channel at the road crossing location, channel fill, and bank disturbance associated with pipeline construction. During the extreme flow events, increased shear from confinement eroded the channel fill and contributed to undermining the downstream banks. Flow was directed at the undermined and marginally stable banks along the outside meander bend at the pipeline crossing causing the exposure (GeoEngineers, 2018).”

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.

JARPA Table 8e.: Approximate Impact to Waterbodies					
Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name¹	Impact location²	Duration of impact³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Excavate below OHWM	Unnamed Ephemeral Waterbody	Within Waterbody	Temporary	144	95 LF
Fill below OHWM	Unnamed Ephemeral Waterbody	Within Waterbody	Permanent	416	95 LF
Excavate above OHWM	Unnamed Ephemeral Waterbody	Within Waterbody	Temporary	81	140 LF
Fill above OHWM	Unnamed Ephemeral Waterbody	Within Waterbody	Permanent	63	140 LF
¹ If no official name for the waterbody exists, create a unique name (such as “Stream 1”) The name should be consistent with other documents provided. ² Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain. ³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter “permanent” if applicable.					

Fill material will be sourced from a local material supplier and a local gravel pit. Placement of rock will be done by a clawed bucket on a track excavator. Below is list of the approximate amounts of fill material anticipated as part of the proposed Project.

- Gabion Wall within OHWM (imported) – 39 CY
- Gabion Wall within OHWM (native) – 39 CY
- Gabion Wall outside OHWM (imported) – 4 CY
- Gabion Wall outside OHWM (native) – 4 CY
- Wall Apron within OHWM (imported) – 26 CY
- Wall Apron within OHWM (native) – 26 CY
- Boulder Steps within OHWM – 10 CY
- Boulder Steps outside OHWM – 7 CY
- Enhanced Gradation within OHWM (Class B riprap) – 107 CY
- Enhanced Gradation within OHWM (native material) – 36 CY

- Wall Backfill within OHWM (Imported Gravel Borrow) – 35 CY
- Wall Backfill within OHWM (native) – 83 CY
- Wall Backfill outside OHWM (imported gravel borrow) – 14 CY
- Wall Backfill outside OHWM (native material) – 33 CY
- Articulated Concrete Mattress within OHWM – 14 CY

Approximately 144 CY of material will be excavated below the OHWM and 81 CY above the OHWM to install the Gabion Wall, head control structures, and concrete mattress.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
 Since work is being conducted to repair erosion within a waterbody, it is likely that some minor erosion will continue to happen as part of natural processes. The engineering controls placed within this stretch of the channel are intended to minimize erosion.
- 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:
 Northwest will minimize impacts to the extent possible. Appropriate BMPS will be utilized in upland areas disturbed during construction to prevent sediment from entering the waterbody. BMPS include but are not limited to the following:
- Prior to beginning the project, equipment will be inspected to ensure it is clean and free of potential weed seed before it is brought onto the right-of-way to reduce the potential for invasion or spread of undesirable exotic vegetation.
 - Temporary erosion controls will be installed immediately after initial disturbance and will be properly maintained throughout construction and repaired/reinstalled as necessary until replaced by permanent erosion controls or restoration is complete.
 - Sediment barriers will be used to confine sediment to the construction right-of-way.
 - Mulch or jute matting will be applied on reseeded areas to stabilize the soil from wind and water erosion and to enhance revegetation success. The mulch will be uniformly applied at a rate of 2 tons/acre to cover at least 75 percent of the ground surface. Mulching or jute matting will be completed immediately after seeding. All straw utilized for mulch will be weed free. All straw mulch will be anchored by crimping using an appropriate implementation design for the purpose to minimize dislodging/loss during strong winds.
 - All construction disturbance and activities will be confined to the approved access road and the work areas as shown on the Project Site Maps (Attachment A).
 - Excavation will be done in a manner which results in the smallest practicable disturbance footprint within the channel and surrounding work areas.
 - Dust control:
 - Minimize dust in all construction areas to avoid a visible fugitive dust plume;
 - Water the right-of-way and access road as necessary; and
 - Reduce travel speeds on the right-of-way.
 - All personnel must be trained in accordance with the project Spill Plan:
 - Equipment will be inspected for leaks and necessary repairs completed prior to moving equipment on-site. If a piece of equipment develops a leak it must be repaired immediately and cleaned up in accordance with the Spill Plan;
 - Spill kits must be in place and maintained per the Spill Plan;
 - All spills must be reported immediately to Northwest's natural resources lead and in accordance with project permits; and
 - All contaminated materials must be disposed of in accordance with State and Federal regulations.
 - All trash and debris will be disposed of in appropriate containers daily.

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.

Emissions during construction include dust and emissions from equipment and vehicles. No emissions are anticipated as part of operations and maintenance of the project.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Water trucks will be used as necessary to wet exposed soils and reduce dust. Construction equipment and vehicles will not be left idling when not in use. Construction equipment will have emission control equipment (catalytic converter).

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.

Work will take place within an unnamed ephemeral tributary to Dry Gulch.

- 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.

Project work will take place with the ephemeral wash. In-channel work will involve installation of an approximately 7-foot high gabion basket retaining wall for a length of 87-linear feet within the channel. The retaining wall will be lined with geotextile filter fabric and backfilled with an imported gravel borrow material. Channel bed stability will be controlled utilizing a three foot diameter boulder grade control structure at the downstream extent of the project site. The pipeline crossing will be armored using an articulated concrete mattress. The rest of the affected channel will be built up to grade using enhanced scour protection material.

- 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.

See Section B.1.e

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

No

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

No

- 6) Does the proposal involve any discharges of waste 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.

Groundwater will not be withdrawn for this project.

- 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.

Waste material will not be discharged as part of this project.

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Stormwater runoff from rain events would be temporary and would flow through the vegetated ROW and adjacent areas. The disturbed area will be small and primarily within the waterbody channel. Any sediment entering the wash as a result of the proposed project, would be minimal and likely less than that resulting from natural erosion occurring along the streambank. Sediment would flow from the site to Dry Gulch.

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

There is potential for leaking equipment to discharge fluids to the ground where it would potentially seep into the ground or flow into nearby waterbodies. To minimize the potential for such an event the project, a Spill Plan for Oil and Hazardous Materials will be followed. In addition, any equipment stored overnight will have suitable absorbent pads placed under areas of possible leakage.

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

Drainage patterns will not be impacted.

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

See Section B.1.f

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

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

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

crop or grain

- _____ 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?

Due to recent wildfires, vegetation in the project area is sparse. Plant species in the project area consists of tall tumblemustard (*Sisymbrium altissimum*), cheat grass (*Bromus tectorum*), Russian thistle (*Kali tragus*), and sage brush species (*Artemisia, spp*). The area is characterized by significant amounts of bare ground and rock.

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

The USFWS Information for Planning and Consultation (IPAC) report and Northwest’s affects analysis is provided in Attachment B. The below listed species were identified as potentially occurring within or near the project area. Northwest determined the project would have No Effect to these species.

- Canada Lynx (*Lynx Canadensis*) - Threatened
- Gray Wolf (*Canis lupus*) - Endangered
- North American Wolverine (*Gulo gulo luscus*) - Proposed Threatened
- Marbled Murrelet (*Brachyramphus marmoratus*) - Threatened
- Yellow-billed Cuckoo (*Coccyzus americanus*) – Threatened
- Bull Trout (*Salvelinus confluentus*) – Threatened

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

After construction the site will be replanted with a native seed mix suitable to the area.

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

There are no State or County listed Class A, B, or C noxious weeds.

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 _____

- | | |
|-------------------------------|--------------------------------|
| Turkey | Elk |
| Red-tailed hawk | Mule deer |
| American Kestrel | Cotton-tail rabbit |
| Turkey Vulture | Jackrabbit |
| Miscellaneous passerine birds | Golden-mantled ground squirrel |
| Coyote | Rattlesnake |
| Bobcat tracks | |

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

There are no known T&E species on or near the site.

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

The site is not known to be part of a migration route.

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

Northwest will plant native seed mix which will enhance wildlife habitat on-site.

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

There are no known invasive animal species on or near the site.

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.

Other than fuel used to power equipment, the project does not have any energy needs.

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:

Vehicles will not be allowed to idle when not in use.

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.

There is risk of spills of fuel, but this is mitigated by the implementation of the Spill Plan for Oil and Hazardous Materials.

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.

During the design process, Northwest considered its existing facilities including the 8-inch Wenatchee line, the 4-inch Quincy lateral, and a meter station.

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.

During construction, lubricating oils and vehicle fuels will be used and may be stored at the project. During the operating life of the project, no toxic or hazardous chemicals will be used, produced or stored on-site.

4) Describe special emergency services that might be required.

Emergency response to address injury (ies) sustained by construction personnel during the course of their work.

- 5) Proposed measures to reduce or control environmental health hazards, if any:
The project will implement the Spill Plan for Oil and Hazardous Materials. In addition, there will be daily tailgate safety meetings.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short-term, construction equipment at the site will create additional intermittent noise over the course of the work period. No long-term noise is associated with the project.

3) Proposed measures to reduce or control noise impacts, if any: None.

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.

The current land use is for grazing and recreation. No changes to the current land use will result from the 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?

The project site has not been used as working farmlands or working forest lands.

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:

The project will not affect or be affected by surrounding working farms or forest land normal business operations.

c. Describe any structures on the site.

Northwest's existing meter station, the 8-inch Wenatchee line, and the 4-inch Quincy lateral are located within the project site. With the exception of the portion of pipe that has become exposed as a result of the stream erosion, the pipelines are buried.

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

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

Rural Residential – 20

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

Rural

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

The site is not within shoreline jurisdiction.

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
Chelan County code 14.10.020 defines "Critical areas" to include: areas with a critical recharging effect on aquifers used for drinking water; fish and wildlife habitat conservation areas; frequently flooded areas; geologically hazardous areas; and wetlands.

Since the project does not require a county permit, a critical areas review has not been conducted by county officials. However, based on the above definition, the project may impact a critical 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:
Not applicable.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
The project will not impact existing or projected land uses and plans.

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:
The project will not impact agricultural or forest lands of long-term commercial significance.

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

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

Housing is not part of the proposed project.

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

Housing is not part of the proposed project.

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

Housing is not part of the proposed project.

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?

The gabion basket retaining wall will be 7-feet high.

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

None.

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

Not applicable.

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

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
No light or glare will be produced by the proposal. Construction activities will occur from dawn to dusk for approximately 3-weeks.
- b. Could light or glare from the finished project be a safety hazard or interfere with views?
No.
- c. What existing off-site sources of light or glare may affect your proposal?
None.
- d. Proposed measures to reduce or control light and glare impacts, if any:
None.

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

- a. What designated and informal recreational opportunities are in the immediate vicinity?
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:
No impacts to hunting are expected as a result of the project.

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 obvious buildings, structures, or sites over 45 years old located within the project area. However, an archaeological site (45CH896) has previously been recorded just south of the erosion mitigation project area. A cultural survey, which will determine if the site extends into the current proposed project area, is scheduled to be completed in December 2019.
- 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 known landmarks, features, or other evidence of Tribal or historic use or occupation are located within the project area; however, the general area has long been utilized by Native American tribes. As noted above, an archaeological site does occur south of the erosion mitigation project area. This site was recorded by Historical Research Associates, Inc. in 2014 as part of the Northwest Pipeline Pasco Recoat Maintenance project (report not available on Washington Information System for Architectural and Archaeological Records Data (WISAARD)). Additionally, the historic JJB Ranch Complex (45CH670) has previously been recorded 500 ft. northeast of the staging project area, though there is no evidence that the site continues into the current project area. The historic "Road to Wynatchee" is depicted east of the project area on a historic General Land Office (GLO) map, potentially following the present-day alignment of Colockum Road. The WISAARD statewide predictive model categorizes the project area as low risk for encountering archaeological resources (DAHP 2018). One professional study is shown on WISAARD which overlap the staging project area (NADB. 1687367). No cultural resources were found within the project area during this study.

- 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.

WISAARD was accessed on November 15, 2018 by Stephanie O'Brien, RPA (Anderson Perry & Associates, Inc.) to determine the presence of previously recorded historic properties or archaeological sites within or near the project vicinity, as well as to determine the potential for cultural and historic resources on or near the area of potential effect (APE). Available historic General Land Office (GLO) maps (for the year 1882), USGS historic topographic maps (Malaga 1912 and 1914; Rock Island 1966), Metsker maps (Chelan County 1950, 1959), and various ethnographic sources were reviewed prior to fieldwork for evidence of pre-contact or historic sites in the vicinity of the project area.

- 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.

Northwest will avoid impacts to cultural resources to the greatest extent possible. If resources cannot be avoided, mitigation measures will be determined in consultation with DAHP and affected Native American tribes. In addition, Northwest will follow the project Unanticipated Discover Plan.

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.

The project site will be accessed via the existing ROW. Construction crews and equipment will gain access to the ROW via an existing dirt road off Colockum Highway.

- 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?

The project will not impact public transportation and workers will not utilize public transit during project activities.

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

None.

- 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).

The existing private dirt road that crosses the wash just north of the ROW will be restored as part of the project.

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

No.

- f. How many vehicular trips per day would be generated by the completed project 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 additional traffic would be created 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:
Not applicable.

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.
Not applicable.

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

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

Position and Agency/Organization Senior Environmental Scientist, Williams Northwest Pipeline LLC _____

Date Submitted: November 28, 2018 _____