



King County

ENVIRONMENTAL CHECKLIST

Pearce Drainage Maintenance Project

Purpose of the Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write “do not know” or “does not apply.” Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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 a significant adverse impact.

Use of Checklist for Nonproject Proposals:

Complete this checklist for nonproject proposals, even though questions may be answered “does not apply.” In addition, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (PART D).

For nonproject actions, the references in the checklist to the words “project,” “applicant,” and “property or site” should be read as “proposal,” “proposer,” and “affected geographic area,” respectively.

A. BACKGROUND

1. *Name of the proposed project, if applicable:*

Pearce Drainage Maintenance Project

2. *Name of Applicant:*

Jeffrey and Vikki Pearce

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

Jeffrey and Vikki Pearce
20226 Duvall-Monroe Road Northeast
Duvall, WA 98019
Phone: 425-788-7605

Contact: Elizabeth Weldin, Project Manager
King County Water and Land Resources Division
201 South Jackson Street, Suite 600
Seattle, WA 98104-3855
Phone: 206-296-1979

4. *Date checklist prepared:*

June 26, 2009

5. *Agency requesting checklist:*

King County Department of Development and Environmental Services

Washington Department of Fish and Wildlife

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

July 15 to October 15, 2009. If needed, we will request an extension of the work window from the proper agencies.

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.*

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.*

No.

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

Washington Department of Fish and Wildlife Hydraulic Project Approval, King County Clearing and Grading Permit and Shoreline Substantial Development Permit Exemption Review, U.S Army Corps of Engineers review, and King Conservation District Farm Plan.

11. *Give a 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 the project description.)*

Jeff and Vicki Pearce are the landowners and applicants for this drainage improvement project on an 84-acre farm, used for pasturing dairy cows, in the Snoqualmie Valley. The King County Agricultural Drainage Assistance Program (ADAP) is assisting the landowners with obtaining the necessary permits. To address the immediate problem of flooded fields, the proposed project will remove a clogged 12-inch diameter "Y" shaped pipe that is approximately 160 feet long, and replace it with an open channel. A new 30-foot long, 30-inch diameter pipe will be installed to retain access to a field. The project will also remove accumulated sediment and noxious and invasive vegetation that has decreased the capacity of adjacent watercourses and repair a small section of bank that has eroded. If it is necessary, a culvert pipe will be installed under a section of farm field road to reduce the extent of sheet flow when the waterway overflows.

Because of the location of the site at the bottom of the valley wall, it is subject to recurring sediment deposition in large storms. To address the long-term problem, the applicant is considering three alternatives for additional work: installation of a sediment pond, construction of an additional swale, or relocation of the access road into the field to allow more room for sediment deposition.

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 plan, 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 site is located on farmland located at 20226 Duvall-Monroe Road NE (#0626079027). The project is located on the west side of Duvall-Monroe Road NE. The project is located about two miles northeast of the City of Duvall. The project will take place in two agricultural watercourses. One of the watercourses runs generally in a northerly direction and the other runs generally in a westerly direction. They flow together in "Y" shaped pipe under and farm field access road. The merged watercourse then flows 950 feet in a westerly direction into an approximately 600-foot long by 30-inch diameter pipe, which outlets into the Snoqualmie River. The area lies in northeast quarter of Section 6, Township 26 North, Range 7 East, Willamette Meridian.

B. ENVIRONMENTAL ELEMENTS**1. Earth**

- a. *General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other.*

The project is located on agricultural land. The site is in the floodplain of the Snoqualmie River.

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

Mostly flat, 1 to 2 percent. Slope at road site is currently 35 percent.

- 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 prime farmland.*

- Sultan silt loam, 0 to 2 percent slopes (All areas are prime farmland).
- Tokul gravelly loam, 6 to 15 percent slopes (Farmland of statewide importance).
- Woodinville silt loam, 0 to 2 percent slopes (Prime farmland if drained).

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

No.

- e. *Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate the source of fill.*

We will remove a 12-inch diameter "Y" shaped pipe that is approximately 160 feet long. The pipe is filled with sediment and gravel and is not conveying water. The pipe allows farmers to cross the watercourse and access adjacent fields. Soil surrounding the pipe was last disturbed about 20 years ago with the pipe's installation. The soils underlying this crossing were probably tilled for years before the pipe's installation. Once the pipe is removed, the banks will be pulled back. The day-lighted channel will not be deeper than the current depth of the "Y" pipe. The existing watercourse will be graded to a cross section of two to three feet-wide flat bottom and a side slope of 2:1. Approximately 244 cubic yards of soil will be excavated.

The accumulated sediment will be removed from the watercourses. Currently, the depth of accreted silt is about two feet. The width and length of watercourse will not be increased. Sediment that will be removed has accumulated over the past five to ten years. This action will not result in the watercourse being deeper or wider than it was historically. Roughly 27 cubic yards accumulated sediment will be removed. The watercourse will be maintained to historical depth. The depth of the watercourse, after maintenance, will range from approximately 2 to 3 feet, measured from the historic grade to the top of bank.

Breaks in the existing watercourse's side slope will be repaired. These breaks resulted because of the 12-inch "Y" shaped pipe being plugged in the December 2008 storm and subsequent storms. Water carved breaks in the side slopes that are one foot deep by one to two feet long. This has resulted in the water not staying in the channel, but sheet flowing across agricultural field toward the Snoqualmie River. The plan is to rebuild/reinforce the side slope and shore up the breaks. If the side slopes of watercourse are not repaired, a new 20-foot section of 12-inch pipe will be installed in the current farm access road to convey sheet flow water through the agricultural fields. Currently, the water is flowing over the field access road. Approximately 20 cubic yards of soil will be used in the side slope repair.

Option A

A sediment pond may be installed at the outlet of the pipe that runs under the current parking pad. This area is an alluvial fan. The length of channel through the alluvial fan is 40 feet long. Most of the material of the alluvial fan appears to have been deposited in the past three years. The sediment pond will be eight feet in diameter and two feet deep. Approximately 15 cubic yards of material will be removed to create the sediment pond.

Option B

Two swales may be constructed at the outlet of the pipe that runs under the parking pad. The swales will be two feet deep, two feet wide and approximately 75 feet long. The length of channel through the alluvial fan is 40 feet long. Most of the material of the alluvial fan appears to have been deposited in the past three years. One swale will be located in the current location of the "Y" pipe. The second swale will be located three feet to the south from the current location of the "Y" pipe. The swales will be running parallel to each other and will be in line with the current flow. Approximately 58 cubic yards of material will be removed to create the dual swales.

Option C

The road crossing may be relocated to the southeast of the current road crossing. The relocated road will be eight feet wide and 120 feet long. The material used for the road will be from previously disturbed and tilled soil surrounding the "Y" pipe and the decommissioned farm road it replaces. The relocated road will start on the parking pad. The parking pad is in the location of an old railroad depot. The steepness of the road stills need be determined. The construction of road could require 80 – 330 cubic yards of material. Survey work will be required to get a more accurate quantity.

For All Options

A 30-foot long, 30-inch diameter pipe will be installed to facilitate the crossing of the watercourse once the channel has been day-lighted. The pipe will be placed either in the area of the current road crossing or the relocated road. The pipe will not be placed deeper than the historic bottom of the current pipe or the historic bottom of the watercourse.

Approximately 10 cubic yards will be removed from the alluvial fan to re-establish the channel.

The spoils will be spread in a thin layer and tilled into the agricultural fields away from the watercourse, so they will not reenter the watercourse.

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

There is a possibility of a short-term mobilization of fine sediments during earthwork. Potential erosion during dredging will be minimized by using best management practices, such as working while the watercourse is dry or diverting any present flows around the worksite, and using erosion control materials such as filter fabric, straw bales, loose straw, or mulch. All exposed soils within the channel and adjacent riparian zone will have erosion best management practices, such as erosion control netting or matting, applied immediately following earthwork to further reduce erosion impacts. Spoils will be placed away from the channel area, so that they do not reenter the watercourse.

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

No net gain in impervious surface.

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

The project is to be completed during the dry season, either when the watercourse is dry or at low flows, using a flow-bypass diversion if needed. All exposed soils within the channel and adjacent riparian zone will be have erosion best management practices applied immediately following earthwork to further reduce erosion impacts. In the unexpected event that waters in the channel become turbid, they will be directed through filter fabric and/or straw bales prior to being released back into the channel.

2. Air

- a. *What types of emissions to the air would result from the proposal (for example, dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities, if known.*

The proposed project, once construction is complete, will emit no gasses with the potential to negatively affect climate change.

Construction of the proposed project will use various vehicles and pieces of equipment that emit gasses with the potential to affect climate. The equipment may include excavator, dump truck, grader, pick-up truck, bob cat, and water pumps. These gasses include carbon dioxide (CO₂), methane and nitrous oxide, as well as others in much smaller amounts.

However, these emissions will be offset by planting of trees and shrubs that are also an essential component of the proposed project. Trees and shrubs sequester CO₂ during their growth and thus help to offset emissions of CO₂ to the atmosphere.

- 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 the air, if any:*

None.

3. Water

- a. *Surface:*

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

This project is located on two small unnamed tributaries that drain a small area just north of Cherry Creek. There is a toe of slope floodplain drainage that flows approximately 1,000 feet to the north and joins up with a small tributary that flows out of the uplands and under Duvall-Monroe Road Northeast. The two watercourses join up underground in "Y" shaped pipe. It then flows west toward the Snoqualmie River for about 950 feet in an open channel. It then flows in a pipe of unknown size underground for about 600 feet before it enters the Snoqualmie River via a flap gate.

- 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.*

A 12-inch diameter "Y" shaped pipe that is 160 feet long will be removed. The pipe is filled with sediment and gravel and is not conveying water. The pipe allows farmers to cross the watercourse and access adjacent fields. Soil surrounding the pipe was last disturbed about 20 years ago with the pipe's installation. The soils underlying this crossing were probably tilled for years before the pipe's installation. Once the pipe is removed, the banks will be pulled back. The day lighted channel will not be deeper than the current depth of the "Y" pipe.

Accumulated sediment in the watercourses will be removed. Currently, the depth of accreted silt is about two feet. The width and length of channel will not be increased. Sediment that will be removed has accumulated over the past five to ten years. This action will not result in the channel being deeper or wider than it was historically.

Breaks in the existing channel's side slope will be repaired. These breaks resulted because of the 12-inch "Y" shaped piped being plugged in the December 2008 storm and subsequent storms. Water carved breaks in the side slopes that are one foot deep by one to two feet long. This is resulted in the water not staying in the watercourse, but sheet flowing across agricultural field toward the Snoqualmie River. The plan is to rebuild/reinforce the side slope and shore up the breaks. If the side slopes of channel are not repaired, a new 20-foot section of 12-inch pipe will be installed in the current farm access road to convey sheet flow water through the agricultural fields. Currently, the water is flowing over the field access road.

Option A

A sediment pond may be installed at the outlet of the pipe that runs under the current parking pad. This area is located on an alluvial fan. The length of channel through the alluvial fan is 40 feet long. Most of the material of the alluvial fan was deposited in the past three years. The sediment pond will be eight feet in diameter and two feet deep.

Option B

Two swales at the outlet of the pipe that runs under the parking pad may be constructed. The swales will be two feet deep, two feet wide and 70 feet long. The length of channel through the alluvial fan is 40 feet long. Most of the material of the alluvial fan was likely deposited in the past three years. One swale will be located in the current location of the "Y" pipe. The second swale will be located three feet to the south from the current location of the "Y" pipe. The swales will be running parallel to each other and will be in line with the current flow.

Option C

The road crossing may be relocated to the southeast of the current road crossing. The relocated road will be eight feet wide and 120 feet long. The material used for the road will be from previously disturbed and tilled soil surrounding the "Y" pipe and the decommissioned farm road it replaces. The relocated road will start on the parking pad. The parking pad is in location of an old railroad depot.

For All Options

A 30-inch diameter pipe will be installed to facilitate the crossing of the watercourse once the channel has been daylighted. The pipe will be placed either in the area of the current road crossing or the relocated road. The pipe will not be placed deeper than the historic bottom of the current pipe or the historic bottom of the channel.

Approximately 10 cubic yards will be removed from the alluvial fan to re-establish the channel.

The spoils will be spread in thin layer and tilled in the agricultural fields away from the watercourse, so there will not reentry into the watercourse.

If fish are present, all practicable means will be used to remove them prior to dewatering or diversion of flows. Fish will be released back into the channel upstream of the project area if suitable habitat exists there. If no other suitable habitat exists within the channel, fish will be released into the Snoqualmie River.

- 3) *Estimate the amount of fill and dredge material that could be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.*

No fill will be imported to or exported from the site.

We will remove a 12-inch diameter "Y" shaped pipe that is 160 feet long. Once the pipe is removed, the banks will be pulled back. The daylighted channel will not be deeper than the current depth of the "Y" pipe. The existing channel will be graded to a cross section defined by a two to three feet-wide flat bottom and a side slope of 2:1. Approximately 244 cubic yards of soil will be excavated to be used as fill on the new road.

We plan to remove accumulated sediment in the watercourses. Currently, the depth of accreted silt is about two feet. The width and length of watercourse will not be increased. The watercourse has been maintained for several decades. Sediment that will be removed has accumulated over the past five to ten years. This action will not result in the watercourse being deeper or wider than it was historically. Roughly 40 cubic yards will be excavated from clearing the watercourses. The channel will be maintained to historical depth. The depth of the watercourse, after maintenance, will range from approximately 2-3 feet, measured from the historic grade to the top of bank.

Breaks in the existing channel's side slope will be repaired. The plan is to rebuild/reinforce the side slope and shore up the breaks. If the side slopes of channel are not repaired, a new 20-foot section of 12-inch pipe will be installed in the current farm access road to convey sheet flow water through the agricultural fields. Currently, the water is flowing over the field access road. Approximately 20 cubic yards of soil will be used in the side slope repair.

Option A

A sediment pond at the outlet of the pipe that runs under the current parking pad may be installed. The sediment pond will be eight feet in diameter and two feet deep. Approximately 15 cubic yard of material will be removed to create the sediment pond.

Option B

Two swales at the outlet of the pipe that runs under the parking pad may be constructed. The swales will be two feet deep, two feet wide and Approximately

75 feet long. The length of channel through the alluvial fan is 40 feet long. One swale will be located in the current location of the "Y" pipe. The second swale will be located three feet to the south from the current location of the "Y" pipe. The swales will be running parallel to each other and will be in line with the current flow. Approximately 58 cubic yard of material will be removed to create the dual swales.

Option C

The road crossing to the southeast of the current road crossing may be relocated. The relocated road will be eight feet wide and 120 feet long. The material used for the road will be from previously disturbed and tilled soil surrounding the "Y" pipe and the decommissioned farm road it replaces. The relocated road will start on the parking pad. The parking pad is in location of an old railroad depot. The steepness of the road stills need be determined. The construction of road could require 80 to 330 cubic yards of material. Survey work will be required to get a more accurate quantity.

For All Options

A 30-inch diameter pipe will be installed to facilitate the crossing of the watercourse once the channel has been day lighted. The pipe will placed either in the area of the current road crossing or the relocated road. The pipe will not be placed deeper than the historic bottom of the current pipe or the historic bottom of the channel.

Approximately 10 cubic yards will be removed from the alluvial fan to re-establish the channel.

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

There will be no net withdrawal of water for the project, though there may be some temporary dewatering of the channel and diversion of flows around the project area to minimize sediment transport if flows are present in the channel during construction. The project will be constructed during the dry season to minimize impacts on water quality and aquatic organisms, including salmonids. Flows, if present, will be diverted around the project area using trash pumps and hoses with fish screens. Turbid water will be diverted to an adjacent vegetated area and/or filtered by fabric or straw bales. Impacts to water quantity and quality are expected to be minimal. No water will be diverted into another catchment.

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

Yes. The work is in the floodplain of the Snoqualmie River. Spoils will be spread in a thin layer in adjacent agricultural fields and away from the watercourses so that they do no reenter into the watercourse.

- 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. A spill response kit will be kept on the site at all times, equipment operation will be stopped, and the permit agencies will be contacted immediately in the event of a fuel or lubricant spill.

b. *Ground:*

- 1) *Will groundwater be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities, if known.*

No groundwater will be directly withdrawn. There will be increased conveyance capacity of the channel. This may lower local shallow groundwater levels to some degree in the winter and early spring.

- 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.*

None.

c. *Water Runoff (including storm water):*

- 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.*

Water from the existing fields already flows into the watercourses. The proposed maintenance will improve drainage of water off the fields by restoring the conveyance capacity of the channel and thereby lowering the hydraulic control for the surrounding lands that it drains. Local runoff from the site is conveyed by the channel to the Snoqualmie River.

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

No.

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

There may be short-term discharges of fine sediments during the project. Various best management practices (BMPs) will be used, including working during periods of low water levels, dewatering/diverting water around work areas (for flowing water), and silt fences or similar sediment control best management practices.

4. Plants

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

- Deciduous trees: alder, maple, aspen, cottonwood, willow, other
- Evergreen trees: fir, cedar, pine, other
- Shrubs: snowberry, twinberry, red osier dogwood, rose
- Grass: reed canarygrass
- Pasture: pasture grasses
- Crop or grain: pasture grasses
- Wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other – reed canarygrass
- Water plants: water lily, eelgrass, milfoil, other
- Other types of vegetation

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

The predominant vegetation found is reed canarygrass, which is currently found in the channel on the side slopes. This vegetation in the channel will be removed.

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

It is unlikely that any rare or endangered plants occur on the sites of the proposed project. The project is located on highly altered farm fields.

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

Mitigation will include native plantings.

5. Animals

a. *Check or underline any birds or animals that have been observed on or near the site, or are known to be on or near the site:*

- Birds: hawk, heron, eagle, songbirds, other
- Mammals: deer, bear, elk, beaver, other
- Fish: bass, salmon, trout, herring, shellfish, other

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

Fall Chinook (Endangered Species Act (ESA) threatened), coho (ESA candidate species), summer and winter steelhead (ESA threatened) and Dolly Varden/Bull Trout (ESA threatened) are all documented in the Snoqualmie River and are known to rear there. Cutthroat trout (ESA species of concern) are found throughout the basin.

It is not expected that Chinook salmon, steelhead trout, or bull trout will be present in the project area. Juvenile coho salmon were found upstream of the Y-pipe in 2008 and are the most likely juvenile salmonid to be found within the project area. There is also the potential to find juvenile cutthroat trout in the project area.

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

The area lies within the Pacific Flyway, and migratory waterfowl use the area. Fish access to the site is primarily from the Snoqualmie River flooding in the fall/winter. Fish generally cannot enter the site otherwise due to the flap gate at the mouth of the watercourse. The Snoqualmie River itself is a migration route for most salmonid species.

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

The project will be performed during late summer, when the channel is at low flow. If flows and fish are present, fish will be removed prior to dewatering or diversion of flows. Fish will be released back into the channel upstream of the project area if suitable habitat exists there. If no other suitable habitat exists within the channel, fish will be released into the Snoqualmie River.

6. Energy and Natural Resources

- a. *What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.*

Once completed, the project will have no 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:*

None.

7. Environmental Health

- a. *Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.*

A minimal chance of hazardous spills from construction equipment will exist during construction. A spill response kit will be kept on the site at all times, equipment operation will be stopped, and the permit agencies will be contacted immediately in the event of a fuel or lubricant spill. There should be no other threats to public safety as a result of this project.

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

None.

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

Maintenance and refueling of equipment will occur outside the riparian area. A spill response kit will be kept on the site at all times, equipment operation will be stopped, and the permit agencies will be contacted immediately in the event of a fuel or lubricant spill.

b. Noise:

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

The project is secluded from sources of noise and will not be affected by them.

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

Typical construction noise from light and heavy machinery is expected during construction. Temporary noise level increases in the project vicinity could be as high as 90 decibels. Equipment operation will be limited to the hours listed under the King County Noise Ordinance (Ordinance 3139). The completed project will not change existing noise levels.

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

Construction activities will comply with the provisions of the King County Noise Ordinance (Ordinance 3139).

8. Land and Shoreline Use

- a. *What is the current use of the site and adjacent properties?*

Residential, forestry, and livestock grazing

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

Yes. Livestock grazing

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

Loafing shed, two silos, slurry tank (not in use), and barns.

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

No.

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

A-35.

- f. What is the current comprehensive plan designation of the site?*
Agricultural Production District.
- g. If applicable, what is the current shoreline master program designation of the site?*
Conservancy.
- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.*
Yes. The project entails excavation within agricultural watercourses with salmonids. A 100-year floodplain, floodway, erosion and seismic hazard area are also present within or adjacent to the proposed project 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:*
None.
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:*
The proposed project will help maintain current agricultural use of the property, which is consistent with its zoning designation.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high-, middle-, or low-income housing.*
None.
- b. Approximately how many units, if any, would be eliminated? Indicate whether high-, middle-, or low-income housing.*
None.
- c. Proposed measures to reduce or control housing impacts, if any:*
None.

10. Aesthetics

- a. *What is the tallest height of any proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?*

Not applicable.

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

None.

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

Not applicable.

11. Lights and Glare

- a. *What type of light or glare will the proposal produce? During 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?*

Not applicable.

- c. *What existing off-site sources of light or glare may affect your proposal?*

None.

- d. *Describe proposed measures to reduce or control light and glare impacts, if any.*

Not applicable.

12. Recreation

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

None.

- 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:*

Not applicable.

13. Historical and Cultural Preservation

- a. *Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.*

As part of the planning for this project, a certified archaeologist will be consulted regarding potential impacts to cultural or historical resources.

- b. *Generally describe any landmarks or evidence of historical, archaeological, scientific, or cultural importance known to be on or next to the site.*

As part of the planning for this project, a certified archaeologist will be consulted regarding potential impacts to cultural or historical resources.

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

The King County Cultural Resources Division was contacted about this project. Previous archeological surveys had been done along the riverbank within one mile of the project site. Archaeological resources (prehistoric and historic) are located within 0.5 mile of the project location. Ethnographic places are located within 0.5 mile of project location which included village/camp and resource acquisition area. Additionally, within 0.5 mile of the project site were several dairy farmsteads.

The project area is part of a working farm and has been used for pasture, hay and/or planting since at least the beginning of the twentieth century, so a plow zone exists and the current drainage facilities have been in use for several decades, as is evident in 1938 aerial photos.

As part of the preliminary planning for this project, a certified archaeologist will be consulted regarding potential impacts to cultural or historical resources. After reviewing the project description and researching databases of known archaeological and historical sites, the archaeologist will give us directions about how to proceed with the site. Any recommendations that archeologist gives us will be followed.

If cultural or archaeological resources are uncovered or encountered during project construction, work will cease immediately and appropriate steps necessary to protect those resources will be taken prior to resumption of construction. If resources are discovered, the Washington State Department of Archaeology and Historic Preservation, the King County Cultural Resources Division, and any affected tribal groups will be notified immediately, and an on-site inspection will be conducted by a state-certified archaeologist and other qualified resource professionals. A mitigation plan will be prepared prior to construction resuming at the site.

In addition, discussion of the measures and the possibility of uncovering materials of archaeological or historic significance near inland waters will be discussed during a pre-construction conference with the construction crew/contractor prior to performing the work on-site.

14. Transportation

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

Access to the project site will be from Duvall-Monroe Road Northeast. See attached map of project area.

- b. *Is the site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?*

Not applicable.

- c. *How many parking spaces would the completed project have? How many would the project eliminate?*

None.

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

No.

- e. *Will the project 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? If known, indicate when peak volumes would occur.*

None.

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

Not applicable.

15. Public Services

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

No.

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

Not applicable.

NORTH



PROJECT LOCATION
20226 Duvall-Monroe Road NE
Duvall

