

# Determination of NONSIGNIFICANCE DISTRIBUTION LIST

## PROJECT:

East Fork Lewis River Side Channel Restoration

Notice Date: **October 27, 2016**

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Please find enclosed an environmental Determination of Non Significance (DNS) issued pursuant to State Environmental Policy Act (SEPA) Rules (Chapter 197-11, Washington Administrative Code). The enclosed review comments reflect evaluation of the environmental checklist by the lead agency as required by WAC 197-11-330(1)(a)(i).

Written comments may be submitted on this determination within fifteen (15) days of its issuance, after which the DNS will be reconsidered in light of the comments received.

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Please address all correspondence to:

Jennifer Taylor, Environmental Permitting Coordinator  
Clark County Public Works  
PO Box 9810  
Vancouver, WA 98666-9810

## A. DISTRIBUTION

### Federal Agencies

US Army Corps of Engineers

### State Agencies:

WA State Dept. of Fish & Wildlife  
WA State Dept of Ecology  
WA State Dept. of Natural Resources  
WA State Dept. of Transportation  
WA State Dept. of Archaeology & Historic Preservation

### Regional Agencies:

SW Washington Health District  
Fort Vancouver Regional Library  
Clark Clark Parks & Recreation

### Local Agencies:

Clark County Fire District #11  
Clark County Conservation District  
Clark Public Utilities - Water  
Clark Public Utilities - Electric  
Clark County Board of Commissioners  
Clark County Community Development  
Clark County Development Services  
Fire Marshall's Office  
Clark County Sheriff's Office  
Clark County Department of Environmental Services

### Neighborhood & Homeowner Assoc.

Properties within 500' of project (postcard only)  
Ridgefield Junction Neighborhood Association  
Friends of Curtin Creek (postcard only)

### Special Purpose:

Cowlitz Indian Tribe  
Confederated Tribes of the Grand Ronde  
Ridgefield School District

### Other:

The Columbian  
The Reflector  
Comcast Cable Services  
CenturyLink  
Northwest Natural  
Clark Regional Wastewater District

**DETERMINATION OF NON-SIGNIFICANCE**

**Description of Proposal:**

The proposal is a restoration project to improve off-channel habitat for salmon of the East Fork Lewis River through improving fish passage to an existing side channel, installation of large woody debris habitat structures and enhancement of riparian and floodplain vegetation. Approximately four acres may be disturbed during construction activities; however, the project also includes seeding all bare soils, followed by dense native tree and shrub planting, and a larger reforestation effort throughout the site. Approximately 30,000 new native trees and shrubs will be planted across 15 acres.

**Proponent:** Clark County Public Works Parks Department

**Location of proposal, including street address, if any:**

The project site is approximately 1 miles due south of the city of La Center on a Clark County Legacy Lands natural area adjacent to the East Fork Lewis River. The project begins at river mile 5.5 and ends at river mile 6.4 of the East Fork Lewis River. There is no street address.

The project is Section 14 Northeast Quarter of Township 4 North, Range 1 East, Willamette Meridian, in Clark County, Washington.

**Lead Agency:** Department of Public Works Parks, Clark County, Washington

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

The lead agency has determined that the requirements for environmental analysis, protection, and mitigation measures have been adequately addressed in the development regulations and comprehensive plan adopted under chapter 36.70A RCW, and in other applicable local, state, or federal laws or rules, as provided by RCW 43.21C.240 and WAC 197-11-158. Our agency will not require any additional mitigation measures under SEPA.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 15 days from the date below.

Comments must be submitted by **November 11, 2016**

**Responsible Official:** Bill Bjerke  
**Position/title:** Clark County Public Works Parks Manager  
**Address:** Clark County Public Works Parks  
4700 NE 78<sup>th</sup> Street  
Vancouver, WA 98665

**Date:** 10/20/16      **Signature:**   
For Bill Bjerke

## SEPA ENVIRONMENTAL CHECKLIST

### A. background

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

East Fork Lewis River Side Channel Restoration

2. *Name of applicant:*

Clark County Public Works Parks

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

Contact: Jennifer Taylor  
Clark County Public Works  
1300 Franklin Street  
PO Box 9810  
Vancouver, WA 98666-9810  
Phone: (360) 397-2121 ext 4227

4. *Date checklist prepared:*

September 12, 2016

5. *Agency requesting checklist:*

Clark County Public Works Parks

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

Site Preparation Phase: August 1, 2016 to October 31, 2017  
Habitat Restoration Construction Phase: July 1, 2017 to October 31, 2017  
Revegetation Phase (Planting and Plant Establishment): November 1, 2017 to September 2019

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.*

- Wetland Delineation Report (Lower Columbia Estuary Partnership, 2016)
- Stormwater Pollution and Prevention Plan
- Cultural Resources Survey (WillametteCRA October 2016)
- No-Net Rise Floodplain Analysis (Estuary Partnership, 2015)
- Rare Plant Survey (Estuary Partnership, 2014)
- East Fork Lewis River Breeding Bird Monitoring Report (Clark County Parks and Recreation, 2010)
- Lower East Fork Lewis River Habitat Restoration Plan (East Fork Lewis River Working Group-April, 2009)

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.

There are no separate proposals affecting the property covered by this proposal.

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

- Clark County Floodplain Development Permit
- Clark County Grading Permit
- Clark County Shoreline Exemption
- Hydraulic Project Approval (Department of Fish and Wildlife)
- Water Quality Certification (Department of Ecology)
- Aquatic Use Authorization and Right of Entry Permit (Department of Natural Resources)
- Section 404-fill in wetlands/waters (US Army Corps of Engineers)
- Section 106 Cultural Resources Concurrence (DAHP)

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site.

The East Fork Lewis River Restoration Project is located in Reach 5 (LCFRB, 2010) of the East Fork Lewis River (EFLR) on property owned by Clark County between river mile 5.5 and 6.4, upstream of the town of La Center, Washington. The project site consists of two existing side channels (Side Channel A and Side Channel B) and the adjacent mainstem river bank extending for half of a mile downstream of the side channels. Water bodies associated with the site include the EFLR and seasonally inundated wetlands, sloughs and side channels in the adjacent floodplain. The site includes the banks of the EFLR and adjacent off-channel areas of the side channels.

Side Channel A and Side Channel B are historic side channels of the EFLR. Habitat in the side channels is degraded by lack of complex habitat structure and dominance by invasive weeds (primarily reed canarygrass and blackberry) that prevent natural regeneration of native wetland vegetation and riparian forests. Side Channel A currently has limited hydrologic connectivity with the river that limits fish access and presents a stranding hazard for juvenile salmonids.

The project will restore hydrologic connectivity and fish access to Side Channel A. In addition, 234 large woody debris (LWD) logs in 26 complex habitat structures will be added in both side channels and along the bank of the mainstem extending for half a mile downstream of the side channels. Invasive weeds will be removed and replaced with dense native trees and shrubs on 15 acres of riparian zone at the side channels and along the mainstem in the project area.

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.

The proposal site is located in the East Fork Lewis River Greenway. Access to the project is east from a gate at the end of NE 293<sup>rd</sup> Street. The project site is approximately 1 miles due south of the City of La Center.

T4N R1E Section 14 NE Quarter; 45.835187, -122.643935  
Tax Parcels: 212371000, 211723000

## **B. ENVIRONMENTAL ELEMENTS**

### **1. Earth**

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)?

For river and side channel banks, approximately 45%. Within the side channels and along the mainstem EFLR, the slope is <1%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)?

Approximately 94% of the study area is made up of the following NRCS soil units:

- Pilchuck fine sandy loam, 0-8% slopes (2%)
- Puyallup fine sand loam, 0-3% slopes (63%)
- Sauvie silt loam, 0-3% slopes (28%)
- Semiahmoo muck (1%).

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

No unstable soils are known in the immediate vicinity.

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.

#### Lagre Woody Debris installations

LWD habitat structures will be installed on the banks of the mainstem EFLR, Side Channel A, and Side Channel B. The structures are intended to improve habitat, hydrologic connectivity, and channel stability. Cut and fill associated with the installation of LWD structures will only occur along the steep banks of the EFLR. After log installation, trenches will be ballasted by backfilling with an imported cobble/gravel mix and the excavated native soils. Vertically driven pile logs, both in the banks and in the water immediately adjacent to the banks, will be placed to key in LWD structures. LWD installed at either Side Channel will not involve cut or fill. Side Channel Banks average only five feet tall, and LWD will be placed upon the bank slopes, extending out into side channel waters to the extent possible. Stability will be achieved by wedging LWD between existing trees and augmented with additional vertical pilings as directed by the Project Engineer.

#### Side Channel A Excavation

Side Channel A and a berm blocking its connection with the EFLR will also be excavated. This will create a "run of the river" conditions and open unimpeded fish passage connection to the EFLR, provide flood refuge habitat, and provide rearing habitat for listed salmonid species. The side channel will be excavated to a depth, one foot lower than typical summer low flows, to provide favorable water depths for juvenile salmonids using the side channel during the rearing months from November through May. The excavation will also create positive drainage to the EFLR to eliminate stranding hazard and additionally benefits the overall ecosystem by removing approximately one acre of invasive reed canarygrass

Any excess native soils, excavated as part of LWD installations, will be placed in nearby degraded (dominated by invasive weeds) upland field which will then be seeded with native grass seed and densely planted with native trees and shrubs. The source of gravel/cobble fill used for backfilling LWD installations will be selected by the Contractor and approved by the Construction Manager.

Summary of quantities:

Excavation volume: 4,730 cubic yards

Fill volume: 5,290 cubic yards

Total area affected: 4 acres

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

Project plans will incorporate sediment and erosion control measures to prevent construction related erosion and prevent turbid stormwater runoff. These measures may include but are not limited to silt fence, check dams, or straw wattles. These measures will be monitored for effectiveness during construction and will be repaired or replaced to maintain performance.

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

No new impervious surface is proposed.

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

The contractor will be required to implement an erosion and sediment control plan complying with the Clark County Erosion Control Ordinance during construction. The following BMPs may be used to minimize sediment input to EFLR: cofferdams, silt fences, turbidity curtains, and dewatering pumps. From May 1<sup>st</sup> through September 30<sup>th</sup> 2017, all exposed soils will be protected from erosion by mulching, plastic sheeting, hydro seed covering, or other temporary measures. Disturbed soil areas will be permanently stabilized. Spoil piles will be placed on upland locations in the floodplain and be surrounded by erosion control materials as well as being seeded and mulched.

## **2. Air**

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

Emissions from construction vehicles and equipment during construction will be temporary and short-term. The project itself will not generate air emissions, since it is designed as a habitat enhancement project. Dust emissions and fuel dispensing/storage are the only known activities that could have the potential to produce an emission or odor nuisance.

*b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.*

There are no sources of emissions or odors near the project. The project site is not within Clark County's Ozone or Carbon Monoxide Maintenance Area's .

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

During construction, the contractor will be required to shut off all idle equipment. Construction equipment is required by law to have in place and functional the emission control devices they were equipped with at the time of their manufacture. Also, common construction dust control practices will be addressed in the plans and implemented by the contractor. Since there are no long-term emissions or impacts to air quality anticipated, no mitigation measures are proposed.

**3. Water**

*a. Surface Water:*

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

The project area is located on floodplains on the left bank of the East Fork Lewis River (EFLR) and in two unnamed side channels (referred to as Side Channel A and Side Channel B for this document). The EFLR is perennial, flowing year round. Side Channel A connects to the EFLR only at two-year or greater flood events, thereafter it impounds water but dries up during the summer months. Side Channel B has direct connection to the EFLR, typically disconnecting from the EFLR during the low flow summer months. After disconnecting, the majority of Side Channel B dries up as well, although a few semi-permanent pools (disconnected from the river) typically remain.

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, work takes place in and adjacent to two side channels connected to the East Fork Lewis River. See attached.

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 table below contains the material quantities:

Item	Unit	Total Quantity	Side Channel A	Side Channel B	Mainstem bank	Uplands
Excavation	CY	4,730	4,100	0	630	0
Fill	CY	560	0	0	560	4,730
Extent of excavation	AC	1.25	0.75	0	0.5	0
Extent of fill	AC	0.501	0	0	0.001	0.5

Native soils excavated as part of LWD installations will be backfilled with the LWD and graded to match the surrounding topography. The source of gravel/cobble fill used for ballast in the LWD installations will be selected by the Contractor and approved by the Construction Manager.

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

Side Channel A is at higher elevations than Side Channel B and is currently separated from the EFLR by higher ground. Typically there is little to no water remaining in Side Channel A during the dry season when work will be occurring. Any small amounts of water in Side Channel A and ponded water in Side Channel B would be removed through pumps that will be discharged at upland locations.

Typically during the dry season when construction occurs the EFLR water level is very low, resulting in dry conditions at the river bank where the LWD would be installed. However, in the event that the EFLR is high enough during the construction period that water is near the LWD installation areas, the sections of the mainstem where large wood habitat clusters will be installed will be isolated behind coffer dams and surface waters will be pumped and discharged at upland locations.

In the event that dewatering is required, up to 28,000 gallons of water would be discharged to an upland location.

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

Yes. The project site lies entirely within a 100-year floodplain.

- 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.*

The proposal does not involve any discharges of waste materials to surface waters. Work will be conducted while coffer dams and pumping diversion systems are in place. Work will occur in dry conditions and will not require any contact with or discharge into channels, streams or other surface waters. Use of silt fences, turbidity curtains, cofferdams, and dewatering pumps will prevent sediment discharge into the East Fork Lewis River.

*b. Ground Water:*

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

No groundwater will be withdrawn from a well for any purposes. No water will be discharged to groundwater.

- 2) *Describe waste material that will be discharged into the ground from septic tanks or other sources, if any.*

No waste material will be discharged into groundwater.

*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.*

During construction temporary runoff impacts will be mitigated using mulch, silt fences, coffer dams, sediment screens, and dewatering pumps. All work is anticipated to occur in dry conditions. However, in the event that dewatering is necessary any water removed from the isolated work areas using a dewatering pump will be pumped to upland discharge locations to allow sediment to settle out before the water returns to any wetland or stream. All impacted sites will be stabilized with seeding and mulching after construction is complete.

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

A Temporary Erosion and Sediment Control Plan has been developed and will be followed during construction to ensure waste materials are properly contained. The following BMPs may be used to protect ground and surface waters: coffer dams, sediment screens, turbidity curtains, temporary mulching, silt fences, and dewatering pumps.

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

Drainage patterns on the mainstem EFLR and Side Channel B are not altered as a result of the proposed project. Side Channel A episodically is connected to the EFLR during flooding or Columbia River backwatering events. Side Channel A floods when elevations over 16.1 feet occur. This typically occurs in pulses between late November and early June, trapping juvenile salmonids in the side channel during the summer months. This project proposes to lower the invert elevation of Side Channel A to nine feet, and regrade the channel so there is positive slope towards the EFLR. This would keep an average three foot depth in the side channel between November and July and allow juvenile salmonids to migrate out before waters are excessively warmed in mid-July.

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

All exposed soils will be protected from erosion by mulching, plastic sheeting, hydro seed covering, or other temporary measures to prevent sediment from entering EFLR. Sediment curtains, turbidity curtains, cofferdams, and dewatering pumps will be used to prevent sediment from entering the EFLR and other surface waters during construction. All disturbed soils will be permanently stabilized with native grass seeding planting with native trees and shrubs.

#### **4. Plants**

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

*deciduous trees including: cottonwoods, alder, willow, dogwood, ash, etc.*

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

*shrubs*

*grass*

*pasture*

*crop or grain*

*Orchards, vineyards or other permanent crops.*

*wet soil plants, including: reed canarygrass, common spike rush, wapato, sago pondweed, etc.*

*water plants, including curly pondweed, coontail, yellow pond-lilly, etc.*

*other types of vegetation*

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

The majority of the site where construction activities will occur is dominated by a reed canarygrass monoculture. Excavation for Side Channel A will impact approximately one acre of reed canarygrass. Smaller patches of blackberry growing in the understory of the riparian tree stands along the banks of the mainstem EFLR will also be removed. Collectively these patches of blackberry amount to one acre or less.

Although locations were chosen to minimize impacts to any existing native trees or vegetation, approximately 20 trees (cottonwood and alder ) between 3" and 10" diameter breast height (DBH) will be impacted for access through an approximately 15 year old planting area adjacent to the EFLR where LWD will be installed. Any trees removed will be incorporated into LWD habitat structures that will be placed in the side channels as part of the habitat enhancement for the project. The project also includes native grass seeding in all bare soils, followed by dense native tree and shrub planting, as well as a larger reforestation effort throughout the site. Approximately 30,000 new native trees and shrubs will be planted across 15 acres.

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

None, water howellia (*Howellia aquatilis*) was not found during rare plant surveys.

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

All disturbed areas will be seeded with a native plant seed mix. Extensive native tree and shrub planting will also occur along 15 acres of the mainstem EFLR and Side Channels A and B. Approximately three acres in and around the disturbance area for the construction of access, staging, and spoils areas will also be planted. Overall, approximately 30,000 native trees and shrubs will be planted across 15 acres.

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

Invasive reed canarygrass, spotted ladythumb, Armenian blackberry, Japanese knotweed, and curly pondweed are found along the banks of the mainstem EFLR and in both side channels. Locations outside of the inundated areas were predominantly in full coverage by reed canarygrass.

Reed canarygrass, curly pondweed, Japanese knotweed and Himalayan blackberry are listed by the Washington State Noxious Weed Control Board as noxious weeds.

## 5. **Animals**

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

Birds: wintering geese, ducks, cavity nesting ducks, and wintering populations of tundra swans

Mammals: beaver, deer, mice, voles, coyotes, horses

Fish: threespine stickleback, chinook, coho, steelhead, cutthroat, chum, carp, yellow perch, crappie, sculpin, and bass.

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

Chinook, coho, chum, and steelhead.

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

Yes. Both sites contain priority habitats and species as identified by WDFW. The EFLR and its surrounding floodplain are listed as biodiversity areas, with high quality habitat and multi-layered canopy. These habitats are also identified as supporting high waterfowl concentrations including wintering geese, ducks, cavity nesting ducks, and wintering populations of tundra swans. Fall chum, Chinook, Coho, summer steelhead, winter steelhead, rainbow trout, and residential cutthroat trout all use the EFLR as a migration route and rearing habitat. Chinook salmon spawn in the EFLR.

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

Restoring an unimpeded connection between the EFLR and Side Channel A is expected to eliminate juvenile salmonid stranding and increase fish access to the floodplain. Increasing the duration of floodplain inundation is expected to improve habitat conditions for herpetiles, waterfowl, and wading birds.

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

The applicant is not aware of any invasive animals at or near the site. Nutria have not been directly observed at the project site, but it is likely that they exist on or near this site.

## **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.*

This project has no long term energy needs. Diesel fuel will be used by construction equipment.

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

Because this project takes place entirely on a floodplain wetland natural area held for conservation purposes, there is no development on the site that would potentially utilize solar power, therefore the project would not affect its potential use.

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:*

This is a habitat restoration project that will enhance fish, wildlife and plant habitat at the site. There are no development energy conservation features, and no impacts on energy use are anticipated from the project.

## **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.*

The proposed project will increase, in the short term, the potential for environmental health hazards at the project site. The increased risks will result from the presence of hazardous materials (e.g., diesel fuel, gasoline, oil, hydraulic fluid, etc.) associated with equipment and vehicles.

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

The site has been in use for natural habitat conservation in recent years, with past uses including grazing and haying with potentially some agricultural use. During field investigations for the project, the project team found an old truck partially embedded in the river bank near Side Channel A. The team notified the Washington Department of Ecology which resulted in the site being entered into a State Environmental Report Tracking System. The truck will be removed and disposed of properly when equipment access is available. Besides the truck, there are no other known contaminants in the project area.

- 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.*

The site is a natural area, there is not expected to be any development or infrastructure that would be associated with hazardous chemicals or conditions. The truck mentioned above will be removed during construction.

- 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.*

Diesel fuel will be used by construction equipment but will not be stored on site.

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

No emergency services are expected beyond basic health and safety situations associated with the construction of the project. Therefore no special services should be required.

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

The contractor will be required to prepare a Spill Prevention, Control and Countermeasure (SPCC) plan to be used for the duration of the project. The SPCC plan shall identify construction-planning elements and recognize potential spill sources at the site. The plan shall outline responsive actions in the event of a spill.

#### **b. Noise**

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

No noise issues exist that may effect the project.

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

Construction equipment is expected to be the major source of noise. Noise levels will return to pre-project conditions post construction.

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

Noise reduction measures include restricting construction hours to 7:00 AM to 10:00 PM, requiring the contractor to shut down idling equipment and maintaining noise minimizing devices (e.g. mufflers) on the construction equipment.

## 8. *Land and shoreline use*

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

The project sites are part of Clark County Parks and Recreation East Fork Lewis River Greenway, an interconnected ten mile greenway. The greenway is open to the public with the only development being light recreational: equestrian and foot trails. Construction locations are separated from public access by steep river banks and dense riparian vegetation and dense stands of Armenian blackberry that border portions of the trail system.

Hiking trails will be temporarily closed during construction, however the existing recreational use will ultimately be preserved and enhanced by improving the quality and diversity of habitat available for multi-species use.

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 land will be converted from working farmland or forest lands as a result of this project. Although some historic agricultural practices likely occurred on portions of the site, and more recently grazing and haying had occurred, current land use is natural resource preservation and passive recreation because Clark County purchased these lands for these purposes.

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:*

Existing roads will be used to access the site for construction. The site is within a large natural area held by the County for conservation purposes, therefore no actions taken for the restoration project are expected to affect any surrounding farm or forest land activities.

c. *Describe any structures on the site.*

The only structure on the site is a small wood-decked bridge at the base of the western valley wall. The bridge will be crossed for construction personnel and equipment to enter the work area.

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

No structures will be demolished.

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

The site is zoned as AG-20.

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

The site is predominantly designated AG R-10 however the northern half of the riparian zone along the mainstem EFLR is zoned AG.

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

The shoreline master program designation is Rural Conservancy Resource Land, Rural Conservancy Residential, and Aquatic, excepting for the northern half of the project site along the mainstem EFLR which is designated only as Rural Conservancy Resource Land and Aquatic.

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

Yes, these sites are classified as critical areas by [RCW 36.70A.030(5)] because they contain wetlands and frequently flooded areas. Clark County Code 40.440 also identifies WDFW priority habitats and species which are also mapped to occur near the project area.

*i. Approximately how many people would reside or work in the completed project?*

The project is a habitat restoration project, therefore no people will work in or reside in the completed project.

*j. Approximately how many people would the completed project displace?*

The project is a habitat restoration project, therefore no people will be displaced.

*k. Proposed measures to avoid or reduce displacement impacts, if any:*

Not applicable due to there being no people displaced by the project.

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

The project is a habitat enhancement project within a large natural area held by the County for resource conservation and passive recreation. The project maintains use of the recreational trail, improves the capacity of the project site to provide diverse, quality habitat for multi-species benefits, and improves wildlife viewing opportunities for the public by removing invasive Armenian blackberry stands. Therefore, the project is compatible with the land use.

*m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:*

The project is a habitat enhancement project within a large natural area held by the County for resource conservation and passive recreation. The project will have no impact on nearby agricultural or forestland. Therefore it is compatible with these lands and uses.

## **9. Housing**

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

The project is a habitat enhancement project and no housing is involved.

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

The project is a habitat enhancement project and no housing is involved.

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

The project is a habitat enhancement project and no housing is involved.

## 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?*

The project is a habitat enhancement project. Large wood habitat structures and cobble backfill for log ballast are the only materials proposed. Habitat structures are also anchored between vertically driven logs (piles) that function as snags after installation. Pilings will range in height from 5 – 15 feet following installation. All habitat structures are placed at the base of the river or side channel banks, with the tallest height of any pile log remaining below the height of the existing trail system.

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

Views of the side channels are not available from the trail system due to dense stands of vegetation. There is not expected to be any new obstruction of existing views from this habitat enhancement work. Material will be graded to blend cohesively with the existing topography.

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

Any logs placed vertically will have snapped ends and be at varying heights to make them appear natural. These structures are not expected to obstruct any views, and provide new vertical habitat opportunities for cavity nesting bird species.

## 11. **Light and glare**

a. *What type of light or glare will the proposal produce? What time of day would it mainly occur?*

The project is a habitat enhancement project and no light or glare producing components are involved.

b. *Could light or glare from the finished project be a safety hazard or interfere with views?*

The project is a habitat enhancement project and no light or glare producing components are involved.

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

This is a habitat restoration project taking place in an existing large natural conservation area, no light or glare issues are expected.

d. *Proposed measures to reduce or control light and glare impacts, if any:*

This is a habitat restoration project taking place in an existing large natural conservation area, no noise issues are expected and therefore, no reduction measures are required or proposed.

## 12. Recreation

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

The project site is part of Clark County Parks and Recreation East Fork Lewis River Greenway, an interconnected ten mile greenway. The greenway is open to the public with the only development being light recreational: equestrian and foot trails on the west side of the EFLR.

b. *Would the proposed project displace any existing recreational uses? If so, describe.*

No. Although the hiking trails will need to be temporarily closed during construction, the existing recreational use will ultimately be preserved and enhanced by improving the quality and diversity of habitat available for multi-species use.

c. *Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:*

Construction notices will be posted along the greenway to inform trail users of temporary closures or alternative trail routes.

## 13. Historic and cultural preservation

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

A cultural resources survey was completed in October 2016. No prehistoric or historic structures or artifacts were identified.

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.*

A cultural resources survey was completed in October 2016. No prehistoric or historic structures or artifacts were identified.

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.*

A cultural resources survey was completed in October 2016. No prehistoric or historic structures or artifacts were identified. This report was routed for Tribal and Department of Archaeology and Historic Preservation (DAHP) consultation.

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.*

In the event that any archaeological or historical artifacts are found during project activity, work will stop, the site will be protected from further disturbance. The Estuary Partnership will notify the Tribes, and all appropriate County, State, and Federal agencies, including the Department of Archaeology and Historic Preservation.

#### 14. **Transportation**

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

No paved roads are within the project sites. Existing dirt/gravel roads accessing the site via private adjacent lands will be used with permission from landowners for construction access.

- 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?*

There is no standard transit system, however, the regional transit service, C-TRAN, has a system called the Connector that provides the cities of Camas, La Center, and Ridgefield with service to downtown La Center, approximately three miles by road from the project site.

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

This is a habitat restoration project taking place in an existing large natural conservation area. No parking spaces are proposed and none would be eliminated.

- 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).*

This is a habitat restoration project taking place in an existing large natural conservation area. No transportation related facilities are associated with 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.*

This is a habitat restoration project taking place in an existing large natural conservation area. No transportation related facilities are associated with the project.

- 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?*

This is a habitat restoration project taking place in an existing large natural conservation area. No trips would be generated by the completed project.

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

This is a habitat restoration project taking place in an existing large natural conservation area. No issues are anticipated with use of nearby roads or practices.

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

No transportation impacts are anticipated, therefore, no measures are required or proposed.

**15. Public services**

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

This is a habitat restoration project taking place in an existing large natural conservation area. No changes are anticipated to public service needs in the area.

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

No changes are anticipated to public service needs in the area no measures are necessary or proposed.

**16. Utilities**

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

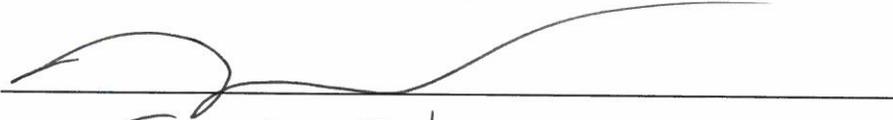
No utilities available at the site.

b. *Describe the utilities that are proposed for the project, the utility providing the service,  
and the general construction activities on the site or in the immediate vicinity which might  
be needed.*

No utilities are proposed for the project.

**C. Signature**

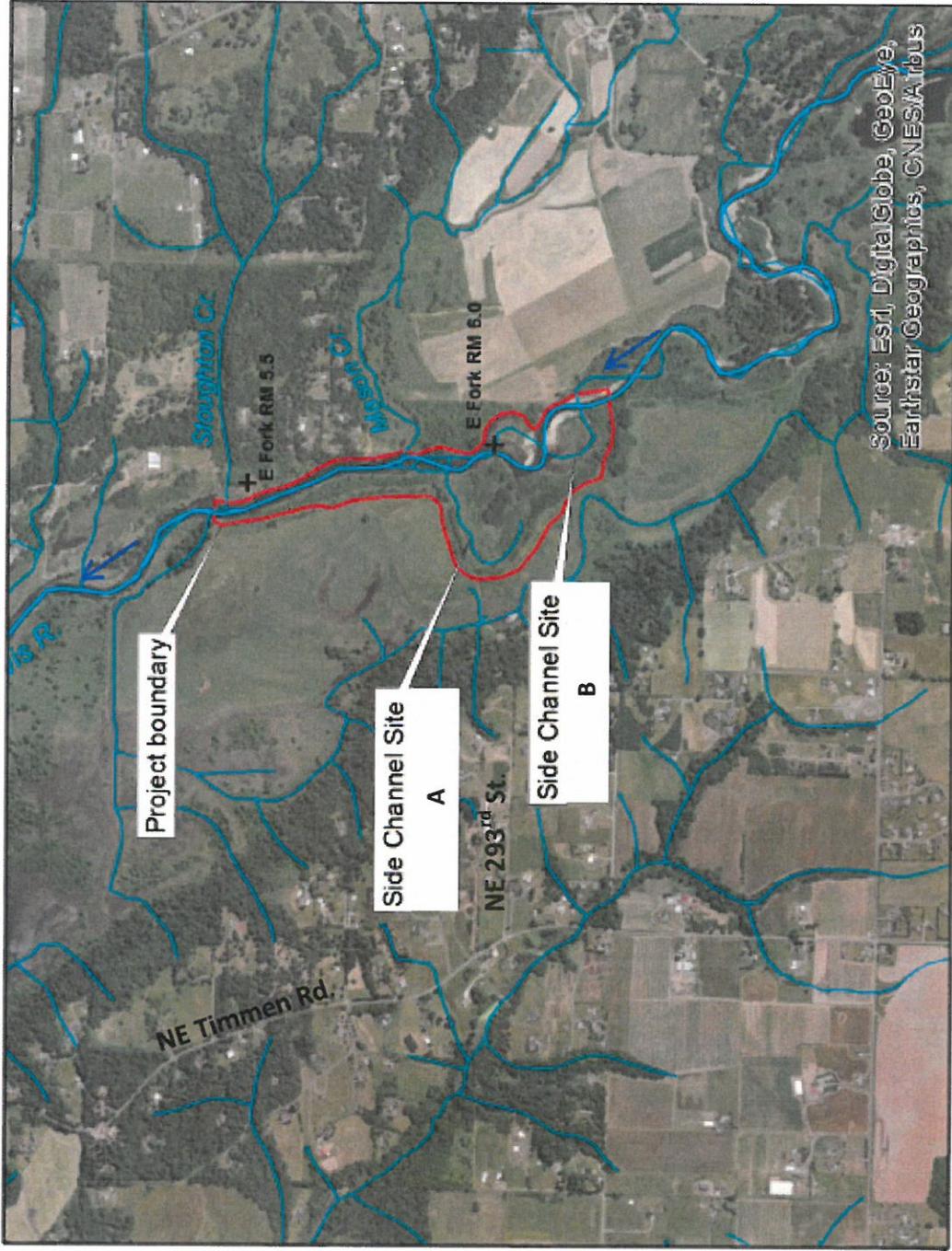
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  \_\_\_\_\_

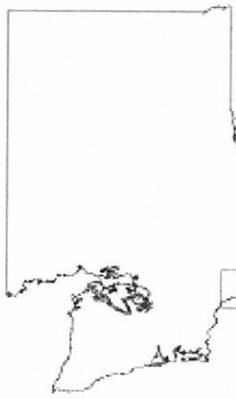
Name of signee: Jennifer Taylor

Position and Agency/Organization: Environmental Coordinator

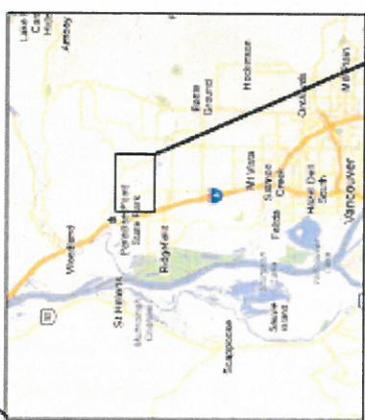
Date Submitted: 10/20/16



**Site Map**

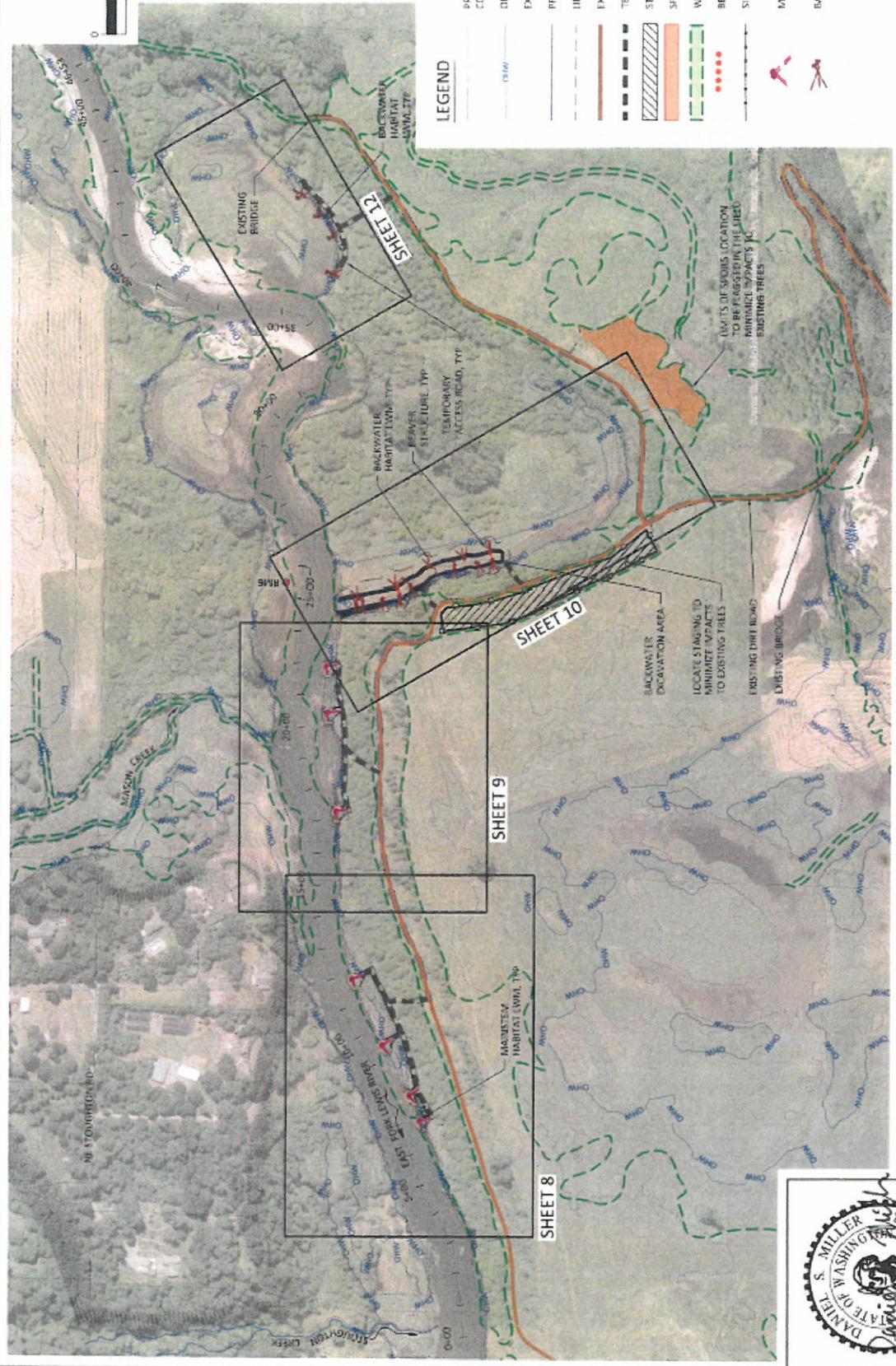


**Location Map:  
State of Washington**



**Vicinity Map**

**East Fork Lewis River Side Channel Restoration Project Vicinity Map**



**LEGEND**

- PROPERTY LINES FROM CLARK COUNTY GIS
- DHW/WATERS
- EXISTING CONTOURS (5 FT)
- PROPOSED CONTOURS (1 FT)
- LIMITS OF DISTURBANCE
- EXISTING DIRT ROAD
- TEMPORARY ACCESS ROAD
- STAGING / STOCKPILE AREA
- SPOILS DISPOSAL AREA
- WETLAND BOUNDARY (MWH)
- BEAVER STRUCTURE
- SILT FENCE, SEE SHEET 5
- MAINSTEM HABITAT COVER (MWC)
- BACKWATER HABITAT (BW)

**PLAN VIEW**

LOWER COLUMBIA ESTUARY PARTNERSHIP  
 EAST FORK LEWIS RIVER  
 SIDE CHANNEL ENHANCEMENT



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 www.interfluvio.com

PROPOSED CONDITIONS PLAN  
 AND SHEET INDEX



DATE: 3/23/2015

East Fork Lewis River Side Channel Restoration Project Site Plan Map

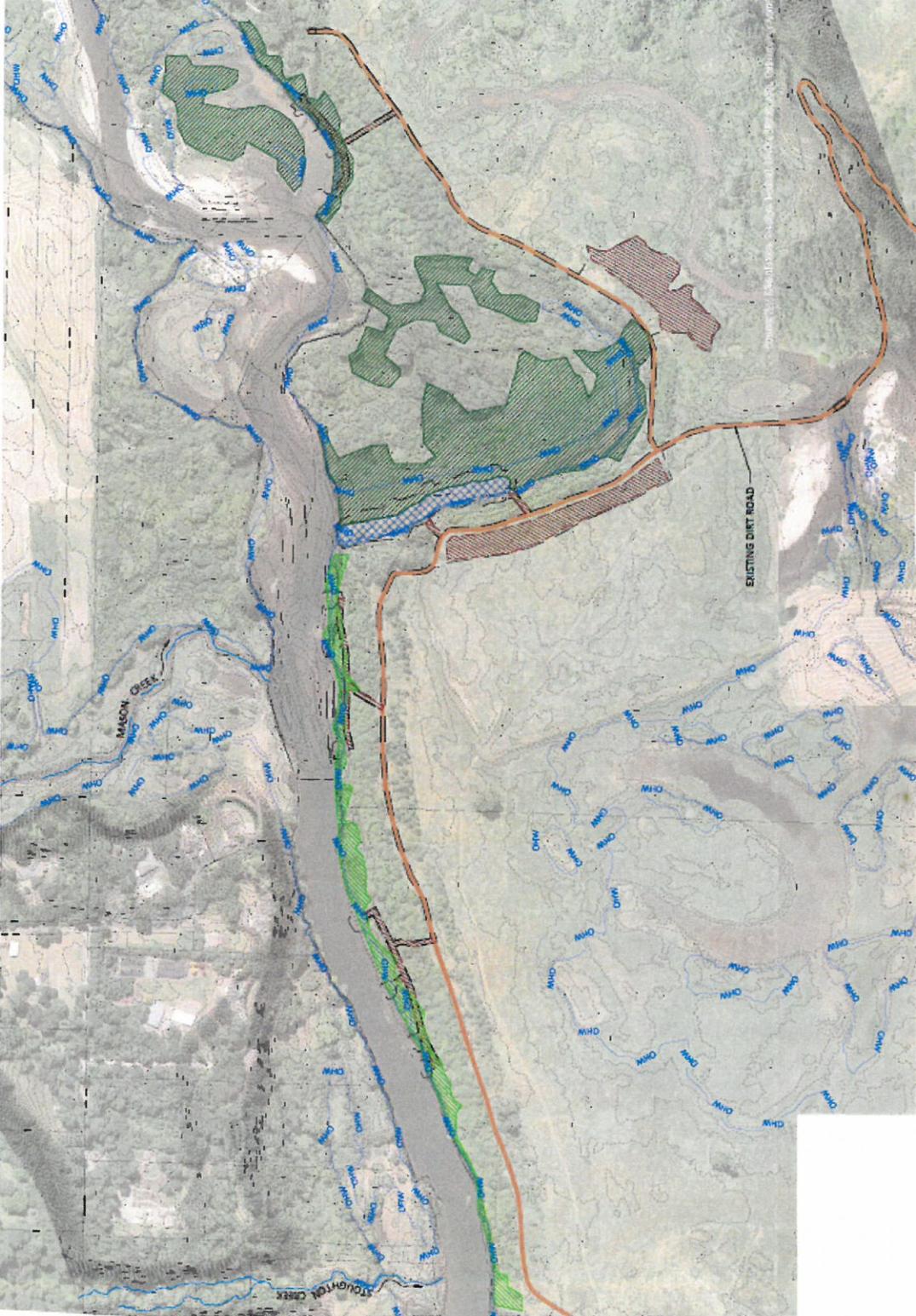


**LEGEND**

- EXISTING CONTOURS (1 FT)
- - - LIMITS OF DISTURBANCE
- EXISTING DIRT ROAD
- SIDE CHANNEL, EXCAVATION AREA (WETLAND MIX) ACRES = 1
- ACCESS / STAGING AND SPOILS DISPOSAL REVEGETATION AREA (UPLAND MIX) ACRES = 3
- MAINSTREAM REVEGETATION AREA ACRES = 2
- SIDE CHANNEL, REVEGETATION AREA ACRES = 10

**NOTES:**

1. DISTURBED AREAS TO BE RESEEDED AND MULCHED WITH WEED FREE STRAW AFTER CONSTRUCTION.
2. EXISTING DIRT ROAD TO BE SEEDED AND MULCHED IF IMPACTS OCCUR FROM CONSTRUCTION.
3. REVEGETATION WITH WOODY SPECIES IN OTHER AREAS TO BE COMPLETED BY ESTUARY PARTNERSHIP.



PLAN VIEW

DEJK SHAW	CALDM/EL SUSWALL	GLDM DRAHLY	LOWER COLUMBIA ESTUARY PARTNERSHIP EAST FORK LEWIS RIVER SIDE CHANNEL ENHANCEMENT		REVEGETATION PLAN	15 of 16	
GLDM APPROVED	10/18/15 DATE	15-03-17 PROJECT			<small>561 Parkway Avenue, Suite 101 Hood River, OR 97031 www.interfluvio.com</small>		

East Fork Lewis River Side Channel Restoration Project Site Revegetation Map