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<b>Joint Aquatic</b>	Resour	ces Pe	ermit
Application (	<b>JARPA</b>	) Form	[help]

Use black or blue ink to enter answers in white spaces belowkordillring of the spaces below the spaces bel electronically by clicking on fields

NOV 25 2000

Tax Parcel #(s): \_

Agency reference #: \_\_

AGENCY USE ONLY

### Part 1-Project Identification

Unique project information that makes it easy to identify [help]: | |

- 1a. Unique Project Identifier Number (UPI #) [help]
  - . Don't have one yet? Get one at http://www.epermitting.wa.gov or call the Washington Governor's Office of Regulatory Assistance at (800) 917-0043.

091898-09-01

**1b.** Project Name (Examples: Smith's Dock or Seabrook Lane Development) [help]

Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment Skagit County, Washington

### Part 2-Applicant

The person or organization responsible for the project. [help]

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Jenny Baker, The Nature Conservancy (TNC)

2b. Mailing Address (Street or PO Box)

Skagit Field Office; 410 N. 4th St.,

2c. City, State, Zip

Mount Vernon, WA 98273

<b>2d.</b> Phone (1)	<b>2e.</b> Phone (2)	<b>2f.</b> Fax	2g. E-mail
(360) 419-7022	( 360) 333-7492	( 360) 419-0817	jbaker@tnc.org

### Part 3-Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b. of this application.) [help]

<b>3a.</b> Name	(Last. First	. Middle)	and Or	aanıza:	tion (if app	licable)

David Munro, Tetra Tech, Inc.

**3b.** Mailing Address (Street or PO Box)

1020 SW Taylor St. Suite 530

3c. City, State, Zip

Portland, OR 97202			
<b>3d.</b> Phone (1)	<b>3e.</b> Phone (2)	<b>3f.</b> Fax	<b>3g.</b> E-mail
(503) 223-5388	( )	( 503) 228-8631	david.munro@tetratech.com

Contact information for people or organizations owning the property(ies) where the project will occur. [help] Same as applicant. (Skip to Part 5.) Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.) There are multiple property owners. Complete the section below and use JARPA Attachment A for each

additional property	y owner.			
4a. Name (Last, First,	Middle) and Organization	on (if applicable)		
Jenny Baker, The Na	ature Conservancy			
4b. Mailing Address	(Street or PO Box)			
Skagit Field Office: 4	110 N. 4th St.			
4c. City, State, Zip				
Mt. Vernon, WA 982	73			
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail	
(360) 419-7022	( )	( 360) 419-0817	jbaker@tnc.org	

### Part 5-Project Location(s)

Example: 47.03922 N lat. / -122.89142 W long

48.323611 N lat / 122.343889 W long

Identifying information about the property or properties where the project will occur. [help]

There are multiple properties or project locations (e.g., linear projects). Complete the section below and use JARPA Attachment B for each additional property.

F- 01			
<b>5a.</b> Street Address (	Cannot be a PO Box. If there is	no address, provide other location in	tormation in 5n.) [ <u>neip]</u>
Pioneer Highway (Ol See SHEET 1: Vicin	,	h Bridge Crossing, 1.4 Miles S	South of Conway WA
<b>5b.</b> City, State, Zip (	If the project is not in a city or to	wn, provide the name of the nearest	city or town.) [help]
Mount Vernon, WA 9	8273		
5c. County [help]			
Skagit			
<b>5d.</b> Provide the sect	ion, township, and range f	or the project location. [help]	
1/4 Section	Section	Township	Range
NE	19, 20, 29, 30	33N	4E
5e Provide the latitu	ide and longitude of the n	roject location (holp)	

<ul> <li>5f. List the tax parcel number(s) to₁ the project location. [help]</li> <li>The local county assessor's office can provide this information.</li> </ul>								
16854, 17433, 17434, 17436, 17450, 17454, 17457, 17466, 17467, 17486, 17507, 17508, 17509, 17518, 17519, 17523, 17524  Additional properties without parcel numbers are owned by: Burlington Northern Santa Fe (BNSF), Dike District #3, Drainage District #17, state waters, and three parcels owned by Skagit County.								
<b>5g.</b> Indicate the type of ownership of the property. (Check all that apply.) [help]								
<ul> <li>State Owned Aquatic Land ☐ Tribal ☐ Private</li> <li>Other publicly owned (federal, state, county, city, special districts like schools, ports, etc.)</li> </ul>								

### 5h. Contact information for all adjoining property owners, lessees, etc. (If you need more space, use JARPA Attachment C.) [help] Tax Parcel # (if known) **Mailing Address** Name 17497, 17510, 17526 S & B Properties 17381 Britt Rd. Mount Vernon, WA 98273 17449, 17453 Maplewood Farm, Inc. 16032 Beaver Marsh Road Mount Vernon, WA 98273 Patricia Sersland 22716 Franklin Rd 17468 Mount Vernon, WA 98273 17455 Palmer Testamentary Trust and 3616 Greenwood Avenue N, #9 Eileen Friend SEATTLE, WA 98103

5i. Is any part of the project area within a 100-year flood plain? [help]

☐ Yes ☐ No ☐ Don't know

5j. Briefly describe the vegetation and habitat conditions on the property. [help]

The project site lies in the Eastern Puget Riverine Lowlands ecoregion (EPA 2000). This ecoregion is composed of floodplains and terraces. The mainstem Skagit River within the project area is a large low-gradient channel ranging from 550 to 750 LF wide. The river is predominantly a run or glide throughout this area, with tidal influence. This portion of the Skagit River provides migratory and rearing habitat for all of the salmon species that utilize the Skagit River, as well as habitat for a diversity of other aquatic and terrestrial species. Salmonid species in the project area include Chinook, pink, chum, steelhead, coho, bull trout, rainbow trout, and cutthroat trout, and likely whitefish. Downstream of Mount Vernon, the river splits into the North and South Forks. The project site is located within the floodplain of the Skagit River Delta and is located to the east of the South Fork Skagit River at RM 1. The project is a freshwater tidal marsh and is upstream of the salt-water tidal areas.

The majority of the trees in the project area are medium to small in size and tend to be one of three species; black cottonwood, willows, and red alder. Weedy species, most of them invasive, dominate much of the project area and include: Himalayan blackberry, reed canary grass and knotweed. Other plants found in the project area are red osier dogwood, baldhip rose, Nootka rose, red elderberry, and crop or planted species such as wheat, potatoes, white clover, and ryegrass on historic farm areas to be restored to tidal marsh. Wetland plant species found within the project site include: narrowleaf cattail, horsetail, Douglas' spirea and rushes. A small amount of tidal forest and scrub-shrub wetland remains.

In general, the entire site is extensively altered from its natural state. Past and present agricultural operations include the installation of dikes, ditches, and drain tiles intended to drain the site to facilitate crop production.

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Despite this, positive indicators for an three wetland parameters (hydrophytic vegetation, hydrology and hydric soils) were found at most sample plots during the wetland delineation conducted June 2009 (Attachment F). Fisher Slough is a freshwater tidal marsh, that is utilized for rearing by juvenile Chinook. Wild juvenile Chinook salmon are consistently found in the estuarine habitats, including freshwater tidal marshes, from February through June. Rearing juveniles feed on insects and macroinvertebrates that feed on live or decaying marsh vegetation (Healy 1982). Most fish use the heavily vegetated blind and side channels found in estuary sloughs to escape predators and acclimate to salt water (Simenstad et al. 1982). In addition to juvenile Chinook rearing habitat, Fisher Slough is an upstream migration corridor for spawning coho. The Fisher Slough tributaries provide upstream spawning habitat for Coho in late fall and winter months. Native cutthroat also use freshwater tidal marsh habitat for foraging, cover and protection. In addition, the Skagit River has been identified as critical habitat for threatened Coastal/Puget Sound bull trout (USFWS 2005). Critical habitat for bull trout includes the entire project area. More specifically, adult bull trout migrate upstream in the watershed from February through March as they ascend the river to spawning grounds and then migrate downstream from May through June as they return to saltwater or estuarine habitats. Juvenile anadromous bull trout may utilize the project area for feeding, migration, and overwintering, entering in August through November and remaining until April or May. Subadults may move in and out of the project area year round. **5k.** Describe how the property is currently used. [help] Agriculture and flood control **51.** Describe how the adjacent properties are currently used. [help] Agriculture and flood control

5m. Describe the structures (above and below ground) on the property, including their purpose(s). [help]

The project site near the floodgate. Contains a county bridge on Pioneer H., that spans Fisher Slough; a set of floodgates that connect the Dike District #3 levee system; a flood return structure along the North Levee, the Big Ditch crossing and spillway structure, and a BNSF railroad crossing west of the Pioneer Hwy bridge. There are also utility crossings in the area including fiber optic cables and overhead electrical utilities. There is a small railroad signal box to the south of the project site.

The downstream floodgate affixed to the Pioneer Hwy bridge provides flood protection during Skagit River floods. This structure is a partial fish passage barrier and is having the gates replaced with self-regulating gates to provide fish passage in Phase I of the project.

The Dike District #3 levees are tributary crossing levees that prevent flooding of local farm areas from the Fisher Slough tributaries, and the Skagit River. The north levee has a five-gate return structure that acts to return flows to the Skagit River if levees were to break or overtop north of the project site. The south levee has an emergency spillway at the Big Ditch crossing. The entire levee structure is being set back, and the emergency spillway improved, to provide an additional 300 acre-ft of flood storage and restoration of an additional 50 acres of freshwater tidal marsh habitat.

The Big Ditch crossing is an agricultural drain that has been constructed several feet lower than the surrounding drainage system to provide interior drainage for local farm areas. The existing Big Ditch culvert crosses beneath Fisher Slough, and is a fish passage barrier. The existing structure is being demolished and realigned to the west near the Pioneer Hwy bridge as an inverted siphon structure.

On the north side of the project, the Junquist property has minor farm drainage infrastructure including ditches and farm road crossing culverts. Modification of these structures is planned as part of the Big Ditch Realignment.

### 5n. Provide driving directions from the closest highway to the project location, and attach a map. [help]

From I-5, take the Conway Exit 221 west, and then continue south 1.4 miles on Pioneer Hwy (Old SR 530) to the Fisher Slough Bridge Crossing (SHEET 1). The 60 acre project site is located on the east side of Pioneer Hwy between the Fisher Slough levees. There are three access points for the project site: indicated in SHEET 2 as "Pioneer Hwy Junquist North Access", 'Pioneer Hwy Junquist South Access', and 'Pioneer Hwy Smith A South Access'. A real estate plan is shown in SHEET 3.

### Part 6-Project Description

### 6a. Summarize the overall project. You can provide more detail in 6d. [help]

Fisher Slough and the surrounding farmland has been highly modified from historic conditions as a result of channelization, levee construction for flood control, drainage, and agricultural development on the Skagit River delta for the past 150 years. Currently, the presence of the floodgate that closes during high tidal and river flow events is a fish passage barrier. In addition, the Big Ditch culvert crossing is also a fish passage barrier at low tides and low tributary flows.

The levee system prevents flooding from the surrounding farm areas. However, due to sedimentation at the confluence of the tributaries entering the site from the east, flood storage is limited. The levee setback will provide additional 247 acre-ft of flood storage and provide flood damage reduction benefits that occur upstream along Hill Ditch levee system.

In addition, the levee setback project will provide an additional 53 acres of tidal marsh habitat, which is key habitat for juvenile Chinook rearing.

Overall, the project will provide multiple habitat restoration, improved fish passage, natural hydrology and flood control benefits. The project is a collaborative effort led by The Nature Conservancy with their partners including

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Dike District #3, Drainage District #1/, Skagit County and other partners.								
Project development and implementation is occurring in the following three phases:  Phase I (SHEET 4): Floodgate replacement - involves retrofit of an existing floodgate that is a fish passage barrier and contributes to increased water temperature and decreased dissolved oxygen in the slough during low tides. A self-regulating floodgate will be installed to increase the period of time water is flowing through the structure, and improve fish passage to tidal marsh rearing areas during juvenile Chinook spring migration, and fall coho spawning migration periods. Permits for this work have been approved and work was completed between August 1 - November 30, 2009.  Phase II (SHEET 5): Big Ditch Realignment & South Levee Setback Pre-loading, and Tidal Marsh Restoration Pre-Excavation - involves realigning Big Ditch to the west to consolidate with other crossing infrastructure, constructing an inverted siphon crossing, constructing the levee setback initial pre-load, pre-excavating the tidal marsh restoration pilot channels, main tidal channel and tributary realignments in the dry, and regrading local irrigation drainage ditches.  Phase III (SHEET 6): South Levee Setback Final Loading, South Levee Removal & Tidal Marsh Restoration Channel Connections - involves final loading of the levee setback structure, tidal marsh restoration connection of the tidal marsh restoration pilot channels, and main tidal channel and tributary channel realignments, and removal of the existing south levee and demolition of the Big Ditch crossing.								
<b>6b.</b> Indicate the project cate								
☐ Commercial ☐ Residential ☐ Institutional ☐ Transportation ☐ Recreational ☐ Maintenance ☐ Environmental Enhancement								
6c. Indicate the major element	ents of your project. (Check	call that apply.) [help]						
<ul> <li>Aquaculture</li> <li>Bank Stabilization</li> <li>Boat House</li> <li>Boat Launch</li> <li>Boat Lift</li> <li>Bridge</li> <li>Bulkhead</li> <li>Buoy</li> <li>Channel Modification</li> </ul>	<ul> <li>☐ Culvert</li> <li>☐ Dam / Weir</li> <li>☐ Dike / Levee / Jetty</li> <li>☐ Ditch</li> <li>☐ Dock / Pier</li> <li>☐ Dredging</li> <li>☐ Fence</li> <li>☐ Ferry Terminal</li> <li>☐ Fishway</li> </ul>	☐ Float ☐ Geotechnical Survey ☑ Land Clearing ☐ Marina / Moorage ☐ Mining ☐ Outfall Structure ☐ Piling ☐ Retaining Wall (upland)	<ul> <li>☐ Road</li> <li>☐ Scientific Measurement Device</li> <li>☐ Stairs</li> <li>☐ Stormwater facility</li> <li>☐ Swimming Pool</li> <li>☐ Utility Line</li> </ul>					

**6d.** Describe how you plan to construct each project element checked in 6c. Include specific construction methods and equipment to be used. [help]

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year flood plain.

Fisher Slough is the major waterbody nearest to each project element identified in 6c and below. Big Ditch is a secondary waterbody included in the work. The tributaries to Fisher Slough are also project water bodies.

All project activities will occur within the 100-year floodplain. TASK numbers below are intended to draw the reader's attention to specific project features as shown on SHEET 7 and in ATTACHMENTS H and I.

Floodgates (SHEETS 2, 4,7, and 9): Under Phase I (Task 1.0). Floodgates that are currently in use will be replaced by self-regulating floodgates and modification of an existing submerged flapgate. This will involve removal and demolition of the existing floodgates, drilling new holes in the concrete support structure, and installing the new gates. In addition, a regulating control structure (MTR) will be installed to keep the gates open for fish passage. Installation of the gates will be performed during low tide periods. Floodgate replacement will be land and bridge based with assistance from laborers working from a floating deck or small boat. Equipment will include excavators and industrial fork lifts for handing the gates from the land to the floodgate headwall.

The structure has a control box and access platform beneath the Fisher Slough Hwy bridge. The installation of this structure will require minor excavation and pile driving to install the work platform and affix the MTR to the bridge. MTR work will also occur during low tide periods.

A final piece of work involves maintenance of (1) submerged flap gate and replacement of (1) additional flapgate. The submerged flap gate work will be performed by divers.

Permitting for the Phase I Floodgate Replacement is complete and construction will occur August 1 2009 to October 15, 2009.

Bridge (SHEETS 2 and16): Four temporary channel crossings are planned for the crossing the Big Ditch channel realignment. The plan is to install pre-frabicated or recycled railroad car for each crossing (as is currently used). Three crossings are located on the Junquist property to the north (S, N, and NE) and one on Smith A.

Channel Modification (SHEETS 2, 6 and 15): The channel modifications are as follows, Big Ditch Realignment, (2) tidal marsh pilot channels (new), realignment of Big Fisher and Little Fisher Creek, and realignment of Hill Ditch/Main Tidal Channel as it enters the Fisher Slough Marsh Areas.

Big Ditch channel realignment will be constructed in Phase II and will be built using dozers and excavators. The channel will be constructed in the dry, and connected to the existing channel in the Phase II in-water work window in 2010.

Two pilot tidal channels will be constructed, one in Smith A and one in Smith B. Pre-excavation of the pilot channels will occur in Phase II work, in the dry prior to levee breaching and channel connection, as Tasks 2.8.1 and 2.8.2. These channels will be excavated using a backhoe and will be approximately 3ft to 6ft wide and 2ft to 3ft deep. Connections will occur in Phase III as part of the levee breaching in the in-water work window in 2011 as part of Tasks 3.1, 3.2 and 3.3.

Big Fisher and Little Fisher Creeks realignments will be realigned across the historical alluvial fann and preexcavated in Phase II work, in the dry prior to levee breaching and channel connections, as Tasks 2.9.1 and 2.9.2. These channels will be excavated using a backhoe and range from 4ft to 20ft wide and are 2ft to 3ft deep. Connections will occur in Phase III as part of the levee breaching in the in-water work window in 2011 as part of Tasks 3.1, 3.2 and 3.3.

The Main Tidal channel realignment will be pre-constructed in Phase II work, in the dry prior to levee breaching and channel connections, as Tasks 2.10.1, to connect with the tributary realignments and pilot channels. The Main Tidal channel realignment is 35ft wide and 4ft deep. Connections will occur in Phase III during levee breaching in the in-water work window in 2011 as part of Tasks 3.4.1 and 3.4.2. A plug will be installed in the existing main tidal channel for flow to follow the newly constructed channel.

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Culverts on the project site include the existing Big Ditch culvert crossing, and two smaller drainage culverts, one on the Junquist farm to the north and the second on the Sersland driveway access on southeastern corner of the project. The existing Big Ditch culvert is to be demolished and removed as part of the Big Ditch realignment. Removal of this structure will require a diversion of Fisher Slough during the Phase III in-water work window in July 15 - Oct. 15, 2011. The replacement of the structure is with an inverted siphon near the Pioneer Hwy Bridge. The currrent plan is to use an open trench across the Slough for installation of the drainage pipes. The construction contractor may select a different construction methods, if feasible within the cost budget that could change the construction method of this structure. The final construction plan and water control plans will be made available for permit review as part of the process. Construction of this structure will also require a diversion and by-pass structure in the Phase II in-water work window from Aug. 1 - Oct. 15, 2010. The Junquist farm and Sersland driveway culverts are to be replaced (SHEETS 2, 4, 12, and 13 and TASKS 2.9.1, 2.9.2, 3.1.3).

Levees (SHEETS 2, 5, 6, 7, 14, 18): The Levee Setback is 3,900ft in length and will replace the existing 5,470ft long existing levee. The Levee Setback begins at the existing levee connection with Fisher Slough and the Pioneer Highway Bridge. Pre-loading of the setback levee will take place in Phase II, 2010. Final loading of the levee setback will take place in Phase III, 2011 (TASKS 2.7.1, 2.7.2 and 3.5). Approximately 30,000CY net of fill material are necessary to build the Levee Setback. The Levee Setback has an emergency spillway in place of the current overflow at the Big Ditch crossing. The Existing Levee Removal will take place in Phase III, 2011, and breaching of the levee will occur during the in-water work window of July 15 through Oct. 15, 2011. Placement and removal of levee materials will be performed using excavators, dozers, and sheepsfoot compactors.

Ditches (SHEETS 2, 5, 7, AND 11): There are a number of small irrigation and drainage ditches on the project site. The existing Big Ditch is being realigned to the west, as described in channel modifications. Smaller, abandoned farm ditches on the Smith A and Smith B tidal marsh restoration areas will be filled, lightly compacted and seeded prior to levee breaching (TASKS 2.11.1, 2.11.2). The Junquist farm ditch north of the north levee is being cleaned out and regraded to the west for drainage maintenance as part of the realignment of the Big Ditch channel (TASK 2.5).

Dredging (SHEET 7) includes sediment removal work for the installation of the inverted siphon pipes (TASK 2.4.2), and the realignment of the main tidal channel (TASK 3.4.1). The spoils will be salvaged and graded on site as part of levee features, ditch fill and localized grading plans.

It is noted that a majority of excavated soils will be recycled and salvaged on site as engineered levee fill, ditch fill material, and placement of topsoils on adjacent farm lands.

Clearing: Clearing and grubbing of vegetation and trees will be required for the project. Haul routes, channel realignment, levee setback areas will be cleared and grubbed as necessary. Materials gained through clearing and grubbing activities can be salvaged and recylced as topsoil, used as fill and landscaping mulch, disposed of off site, or the contractor can be required to chip the materials and stockpile for gathering and use by others. 21 large cottonwood trees are being removed along the S. Levee setback alignment and are planned for salvage and use as habitat feature in the marsh (contingent upon Dike District #3 approval). All other large tree species have been identified on plans for preservation and protection. The Levee Setback, restored marsh, and riparian areas will be revegetated (SHEET 20).

**6e.** What are the start and end dates for project construction? (month/year) [help]

• If the project will be constructed in phases or stages, use <u>JARPA Attachment D</u> to list the start and end dates of each phase or stage.

Start date:	End date:	See JARPA Attachment D
<b>6f.</b> Describe the purpose of the	ne work and why you want or need	to perform it. [help]
approximately 50 acres of cur	rently diked floodplain, restore histo This work is needed to restore rea no, chum and other native fish spec	ct is to reconnect natural hydrology to orical tidal marsh vegetation communities, and aring areas for juvenile Chinook, increase cies, and improve flood and sediment storage
<b>6g.</b> Fair market value of the	project, including materials, labor, r	machine rentals, etc. [help]
\$5 Million		
6h. Will any portion of the pro-	oject receive federal funding? [help viding funds.	
∑ Yes ☐ No ☐ D	on't know	
NOAA, EPA		
Part 7–Wetlands: Impa	cts and Mitigation	
Check here if there are wet (If there are none, skip to F	lands or wetland buffers on or adja Part 8.)	
7a. Describe how the projec	has been designed to avoid and r	minimize adverse impacts to wetlands. [help]
☐ Not applicable		
historically a natural wetland.	Much of the site, however, has be	s levees, the vast majority of the project site was en diked and drained and is considered poor project include increased fish passage and the and tributary riparian areas.
See Appendix E: Wetland M	itigation Table	
See Appendix F: Wetland ar	nd Waters of the U.S. Delineation F	Report
<b>7b.</b> Will the project impact w	etlands? [help]	
∑ Yes ☐ No ☐ [	Don't know	
7c. Will the project impact w	etland buffers? [help]	
	Don't know	
	on report been prepared? [help] noluding data sheets, with the JARPA pack	kage.
⊠ Yes □ No		
System? [help]	rated using the Western Washing rating forms and figures with the JARPA p	iton or Eastern Washington Wetland Rating  backage.
	Don't know	
7f. Have you prepared a mi	igation plan to compensate for any	y adverse impacts to wetlands? [help]

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• If yes, submit the	plan with the JAHPA p	oackage.			
☐ Yes 🛛 No	☐ Not applicab	ole			
compensatory m	d the type and amo	ount of compensatory similar table, you ma	mitigation prop	osed. If you are	submitting a
Activity causing impact (fill, drain, excavate, flood, etc.)	Wetland type and rating category <sup>1</sup>	Impact area (sq. ft. or acres)	Duration of impact <sup>2</sup>	Proposed mitigation type <sup>3</sup>	Wetland mitigation area (sq. ft. or acres)
See Attachment H					
<sup>1</sup> Ecology wetland categor rating forms with the JA	RPA package.				
<ul> <li>Indicate the time (in mon applicable.</li> <li>Creation (C), Re-establis</li> </ul>					
		ion in the mitigation p			e (b)
7h. For all filling active	vities identified in 7	· .	e and nature o	f the fill material,	
7i. For all excavating cubic yards you w		d in 7g., describe the ere the material will b			mount of material in
See Attachment H					
<b>7j.</b> Summarize what approach was us	the compensatory ed to design the pl		ant to accompli	sh, and describe	how a watershed
No compensatory mit acres of prior convert			t restoration pr	oject and will res	store nearly 50
Part 8 Waterhod					

### Part 8-Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

 $\boxtimes$  Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment.

[help]						
☐ Not applicable						
The project is designed to minimize adverse impacts to the aquatic environment through the following:						
Construction work will be performed during low tide cycles						
2. Construction will be performed during the designated in-water work window for Skagit River bull trout and for Fisher Creek and Carpenter Creek coho (August 1, 2010 to October 15, 2010 for Phase II and July 15, 2010 to October 15, 2011 for Phase III.)						
3. Existing infrastructure fluctuation. More specifinstalled during constructive will be pre-excaved disengaged protecting to during Phase II and Phase areas.	fically, the floodg ction of the inver ated down to the the site from tidal ase III construction	ates will be c ted siphon (P OHW as a sr inflows and o on using the f	losed and a pur Phase II). During mall berm, then exposure during loodgate and le	mp diversion and bypa removal of the South removed while the floo construction. The site evees to protect the tida	ss pipe will be Levee (Phase III), the odgates controls are will be isolated al marsh restoration	
4. Contractor will be recrequired by Ecology) th	quired to prepare	and impleme	ent a Stormwate	er Pollution Prevention ent Control (TESC) pla	Plan (SWPP) (if n.	
5. Contractor will be recisolate construction wor provide exclusion, remo	quired to develop k areas from aquoval and protection	a Care and I uatic water bo on of fish.	Diversion (Wate odies, by-pass f	er Control) Plan includi low through the constr	ng measures to uction site, and	
<ol><li>All pilot channels and connected during Phas exclude tidal inflow duri will connect the channel</li></ol>	e III in-water wor ing levee remova els.	k window Jul II. Upon comp	y 15 - OCt. 15, oletion of levee	2011. The floodgates vremoval, the gates will	will be operated to be reopened, which	
7. The planting plan cal exposed and bare consplants and protect again	struction surfaces nst erosion as tid	s will be plant lal flows are r	ed and watered eestablished. (\$	l prior to levee breachii SHEET 20)	ng. This will establish	
<ol><li>Background trubidity surface soil exposure fr will fall within water qua</li></ol>	om levee remova	al and newly	constructed cha	mmer months due to g annels will have turbidi	ty measurements that	
8b. Will your project in	npact a waterboo	ly or the area	around a wate	rbody? [help]		
⊠ Yes □ No						
8c. Summarize impact	t(s) to each wate	rbody in the t	able below. [he	[ <u>ql</u>		
Activity causing impact (clear, dredge, fill, pile drive, etc.)	Waterbody name	Impact location <sup>1</sup>	Duration of impact <sup>2</sup>	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected	
See Attachment I						
Indicate whether the impa waterbody and indicate v Indicate the time (in month applicable.	vhether the impact w	ill occur within t	he 100-year flood p	olain.		
waterbody and indicate v	whether the impact whis or years, as approduced a mitigation plant	ill occur within to priate) the wate an to compen	he 100-year flood perbody will be meas	plain. Surably impacted by the wo	rk. Enter "permanent" if	
waterbody and indicate v  Indicate the time (in month applicable.  8d. Have you prepare waterbodies? [help	whether the impact whis or years, as approduced a mitigation plant	ill occur within to opriate) the wate an to compen package.	he 100-year flood perbody will be meas	plain. Surably impacted by the wo	rk. Enter "permanent" if	

Page 11 of 17

approach was used to		olan is meant to accomplish. De	escribe how a watershed
project that will restore 5		et is a habitat restoration and fis d provide juvenile Chinook habi not required.	
		urce and nature of the fill mate d into the waterbody. [help]	rial, amount (in cubic yards)
See Attachment I			
		ed in 8c., describe the method f nd where the material will be dis	
See Attachment I	ateriai you wiii remove, ar	id where the material will be dis	sposed: ( <u>Inelp)</u>
oo maaninani i			
Part 9–Additional In	formation		
Any additional information y	ou can provide helps the	reviewer(s) understand your pr	oject.
9a. If you have already v	vorked with any governme	ent agencies on this project, list	them below. [help]
Agency Name	Contact Name	Phone	Most Recent Date of Contact
See Attachment J		( )	
		( )	
		( )	
Ecology's 303(d) List?  • If yes, list the parameter	' <u>[help]</u> er(s) below. Vashington Department of Ecolo	ed in Part 7 or Part 8 on the Wa	
⊠ Yes □ No			
		tch: DO, temperature, fecal co	liform, pH (all Cat. 5); and Hill
		Code (HUC) is the project in?	[help]
A The Common Market of States of the State of St	ov/surf/locate/index.cfm to help	identify the HUC.	
17110007			

9d.			nventory Area N ov/services/gis/ma		#) is the project in? [ o find the WRIA #.	help]
WR	IA 3.0176					
9e.	turbidity?	[help]	ction work com	<u>vqs/criteria.html</u> fo		ter quality standards for
04					Assassment Ast who	t is the local charaling
91.	<ul><li>environme</li><li>If you do</li></ul>	ent designation on't know, contact	? [help] the local planning	department.		at is the local shoreline  26/211 designations.html.
	$\boxtimes$ Rural	Urban	□ Natural	☐ Aquatic	☐ Conservancy	Other
9g.	Go to <u>htt</u>		ov/BusinessPermi		Irces Water Type? [hacticesApplications/Pages	elp] s/fp_watertyping.aspx for the Forest
	□s	⊠F	☐ Np	☐ Ns		
	manual?  ■ If no, pro	[help]  ovide the name of  No	the manual your p	project is designed	to meet.	gy's most current stormwater  al for Western Washington Vols.
9i.	If you know	w what the proj	perty was used	for in the past	, describe below. [hel	<b>[</b> ]
35.8530.555		d flood control	Specifical Transmission is approximate the second			
9j.	• If yes, at	tach it to your JAI		) survey been p	performed on the proj	ect area? [help]
9k.			ed under the fe d by the propos			occurs in the vicinity of the project
Ма	rbled murre	elet (Brachyran	nphus marmora	atus)*		
	•	•	ccidentalis cau	•		
	U		ut (Salvelinus o	•		
			hus tshawytsch	na) ^^		
1		ıt (O. mykiss)*' (O. kisutch) **				
		•	7 concultation k	nae heen initiat	ed with USFWS	
					ed with OSFW3 itic Biological Opinior	(Attachment L)
^	a ladi Officu		TOG GINGI LIIII	. 5 i Togramme	Diological Opinior	- <u>-</u> ,
			abitat on the W			Wildlife's Priority Habitats and

JARPA 2009 Page 13 of 17

- I. Habitats:
  - a. Riparian
  - b. Freshwater Wetlands & Fresh Deepwater
  - c. Instream
- II. Fishes
  - a. Pacific Lamprey
  - b. River Lamprey
  - c. Bull Trout/Dolly Varden
  - d. Chinook Salmon
  - e. Coho
  - f. Steelhead
- III. Amphibians
  - a. Western Toad
- IV. Birds
  - a. Great Blue Heron
  - b. Wood Duck
  - c. Snow Goose (winter)
  - d. Tundra Swan (winter)
  - e. Waterfowl Concentrations (winter)
  - f. Bald Eagle

Page 14 of 17

## Part 10-Identify the Permits You Are Applying For

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <a href="http://apps.ecy.wa.gov/opas/">http://apps.ecy.wa.gov/opas/</a>.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or <a href="help@ora.wa.gov">help@ora.wa.gov</a>.

• Governor's Office of Regulatory , to settline to ( )
10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply:) [help]
For more information about SEPA, go to <a href="www.ecy.wa.gov/programs/sea/sepa/e-review.html">www.ecy.wa.gov/programs/sea/sepa/e-review.html</a> .
☐ A copy of the SEPA determination or letter of exemption is included with this application.
☐ A SEPA determination is pending with (lead agency). The expected decision date is
☑ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.)
Submit the Fish Habitat Enhancement Project form with this application. The form can be found at http://www.epermitting.wa.gov/Portals/_JarpaResourceCenter/images/default/ JARPA_supplement_fish_enhancement4_23_09.doc
<ul> <li>☐ This project is exempt (choose type of exemption below).</li> <li>☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?</li> <li>RCW 77.55.181</li> <li>☐ Other</li> </ul>
SEPA is pre-empted by federal law. [help]
10b. Indicate the permits you are applying for. (Check all that apply.) [help]  LOCAL GOVERNMENT
Local Government Shoreline permits:  No Substantial Development Conditional Use Variance
Substantial Development Goldman St.
☐ Shoreline Exemption Type (explain):
Other city/county permits:
☐ Floodplain Development Permit ☐ Critical Areas Ordinance
STATE GOVERNMENT
Washington Department of Fish and Wildlife:
Washington Department of Ecology:  ☑ Section 401 Water Quality Certification
Washington Department of Natural Resources:
Aquatic Resources Use Authorization
FEDERAL GOVERNMENT
United States Department of the Army permits (U.S. Army Corps of Engineers):
⊠ Section 404 (discharges into waters of the U.S.)       ⊠ Section 10 (work in navigable waters)

United States Coast Guard permit	4
l	
General Bridge Act Permit	Private Aids to Navigation (for non-bridge projects)
Part 11–Authorizing Signature	
Signatures required before submitting th	e JARPA package.
11a. Applicant Signature (required) [hel	[व]
I certify that to the best of my knowledge and accurate. I also certify that I have the only after I have received all necessary p	e and belief, the information provided in this application is true, complete, e authority to carry out the proposed activities, and I agree to start work permits.
I hereby authorize the agent named in Pa application (initial)	art 3 of this application to act on my behalf in matters related to this
By initialing here, I state that I have the a permitting agencies entering the property related to the project. (initial)	authority to grant access to the property. I also give my consent to the where the project is located to inspect the project site or any work
Applicant Applicant	11/24/09
11b. Authorized Agent Signature [help]	Date
and accurate. I also certify that I have the only after all necessary permits have been	and belief, the information provided in this application is true, complete, authority to carry out the proposed activities and I agree to start work n issued.
Huttorized Agent Cluss	7/-24-d9 Date
<b>1c.</b> Property Owner Signature (if not ap	nlicant) thein
consent to the permitting agencies enteri r any work. These inspections shall occu andowner.	ing the property where the project is located to inspect the project site rat reasonable times and, if practical, with prior notice to the
roperty Owner	Date
3 U.S.C \$1001 provides that: Whoover in	nner within the jurisdiction of any department or occupate the their 100 cases
. The sive i provides that willower, in any man	iner within the jurisdiction of any deportment an array of the contract of the

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another for. , contact The Governor's Office of Regulatory sistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORA publication number: ENV-019-09

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### **JARPA Attachments**

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit

County, Washington

Attachment L.

Attachment M.

**Additional Property Owners** Attachment A. Attachment B. N/A N/A Attachment C. Attachment D. Question 6e. Construction Sequence Question 7a. Wetland Mitigation Table Attachment E. Question 7a. Wetland and Waters of the U.S. Delineation Report Attachment F. Question 7e. Western Washington Wetland Ratings Attachment G. Question 7g. Type and Rating of Each Impacted Wetland Attachment H. Question 7h. Source and Nature of Fill Material Question 7i. Excavation Method and Disposal Location Fisher Slough Restoration Project Impacts Attachment H Addendum Question 8c. Type and Rating of Each Impacted Waterbody Attachment I. Question 8f. Source and Nature of Fill Material Question 8g. Excavation Method and Disposal Location Attachment J. Question 9a. Additional Information Question 9j. Cultural Resources Attachment K.

Question 9k. Self-certification HRP Limit 8

Question 10a. Fish Habitat Enhancement Exemption





### **WASHINGTON STATE**

# Joint Aquatic Resources Permit Application (JARPA) Form [help]

# JARPA Attachment A: For additional property owner(s) [help]

Use this attachment <u>only</u> if you have more than one property owner.

	AGENCY USE ONLY
Date received	
Agency refere	ence #:
Tax Parcel #(	s):

TO BE	COMPLETED	BY	APPLICANT	[help]

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington

Use black or blue ink to enter <b>4a.</b> Name (Last, First, Mic			ly by clicking on noise.	
Burlington Northern Santa	Significant property represents the second state of the second state of the second state of the second state of			<u> </u>
4b. Mailing Address (S				
	lieet of FO Box)			1.000.0010
David Agee				
<b>4c.</b> City, State, Zip				
2454 Occidental Ave S, S	eattle, WA 98134			
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail	
(206) 418-9859	( )	( )		
Address or tax parcel n	umber of property yo	u own:		
No_ID				
4a. Name (Last, First, Mi	ddle) and Organization	ો (if applicable)		
Diking District #3				
4b. Mailing Address (S	treet or PO Box)			
C/O Judith Olson PO Box	324			
<b>4c.</b> City, State, Zip				
Conway, WA 98238				
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail	
(360) 445-3375	( )	( )		1133 - 1-1
Address or tax parcel n	umber of property yo	u own:		
17524, 17509, 17434, 17	457, 17454, and one pa	arcel with no tax parcel	number	

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

**WASHINGTON STATE** 

**Joint Aquatic Resources Permit** 

Application (JARPA) Form [help]



Date received:

i			
Δ	Agency ref	erence #:	
	9		

AGENCY USE ONLY

## **JARPA Attachment A:** For additional property owner(s) [help]

Use this attachment only if you have more than one property owner.

TO BE COMPLETED BY APPLICANT [help]

UPI#: 091898-09-01

Tax Parcel #(s): \_\_\_

**Project Name: Fisher Slough - Tidal Marsh** Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington

Use black or blue ink to enter	answers in white spaces belo	ow or fill in electronica	lly by clicking on fields.
4a. Name (Last, First, Mic	ddle) and Organization (i	f applicable)	
Drainage District #17			
4b. Mailing Address (St	treet or PO Box)		
c/o Brian Olson			
4c. City, State, Zip			
Mount Vernon, WA 98273			
4d. Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail
( )	( )	( )	
Address or tax parcel n	umber of property you o	own:	
17507, and one parcel wit	h no tax parcel number		
4a. Name (Last, First, Mi	ddle) and Organization (i	if applicable)	
Earl Hanson			
4b. Mailing Address (S	treet or PO Box)		
3316 Trumpeter Dr.			
<b>4c.</b> City, State, Zip			
Mount Vernon, WA 98273	3		
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail
(360) 708-7943	( )	( )	
Address or tax parcel n	umber of property you	own:	
17450			

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

# US Army Corps of Engineers \*

### Date received:

UPI#: 091898-09-01

**WASHINGTON STATE Joint Aquatic Resources Permit** 

Application (JARPA) Form [help]

# **JARPA Attachment A:** For additional property owner(s) [help]

Use this attachment only if you have more than one property owner.

Agency refe	erence #:	
Tax Parcel		
		<u> </u>

AGENCY USE ONLY

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington

TO BE COMPLETED BY APPLICANT [help]

Use black or blue ink to enter	answers in white spaces be	elow or fill in electronically b	y clicking on fields.
4a. Name (Last, First, Min	ddle) and Organization	(if applicable)	
Roger Jungquist et al.			
<b>4b.</b> Mailing Address (S	treet or PO Box)		
16032 Beaver Marsh Rd.			
4c. City, State, Zip			
Mount Vernon, WA 98273	3		
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	<b>4f.</b> Fax	4g. E-mail
(360) 424-8667	( )	( )	
Address or tax parcel n	number of property you	own:	
16854			
4a. Name (Last, First, Mi	iddle) and Organization	(if applicable)	
Maple Wood Farm Inc.			
4b. Mailing Address (S	Street or PO Box)		
16032 Beaver Marsh Rd.			
<b>4c.</b> City, State, Zip			
Mount Vernon, WA 98273	3		
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail
(360) 424-8667	( )	( )	
Address or tax parcel r	number of property you	own:	
17486 17523	J		

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# (3)

### 2009

US Army Corps of Engineers \*\* Seattle District

## **WASHINGTON STATE**

# Joint Aquatic Resources Permit Application (JARPA) Form [help]

# JARPA Attachment A: For additional property owner(s) help

Use this attachment <u>only</u> if you have more than one property owner.

	AGENCY USE ONLY	
Date received		
Agency refere	ence #:	
Tax Parcel #(	s):	

ТО Е	BE CO	MPLE	TED B	Y AP	PLICA	NT [b	elp]	

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington

UPI#: 091898-09-01

Use black or blue ink to ente <b>4a.</b> Name (Last, First, N			y by clicking on fields.
Harvey L. Moyer	ndale, and Organizatio	AM SCHOOL STATE	
<b>4b.</b> Mailing Address (	Street or PO Box)		
22556 Franklin Rd			
<b>4c.</b> City, State, Zip			
Mount Vernon, WA 9827	73		
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail
(360) 445-2445	( )	( )	
Address or tax parcel	number of property ye	ou own:	*
17433, 17466, 17467, 1	7518		
4a. Name (Last, First, I	Middle) and Organizatio	n (if applicable)	
Skagit County			
4b. Mailing Address	(Street or PO Box)		
c/o Jeff McGowan, 1800	Continental Pl		
4c. City, State, Zip			
Mount Vernon, WA 982	73		
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	4f. Fax	4g. E-mail
(360) 419-3427	( )	( )	
Address or tax parcel	number of property y	ou own:	
17509, Three parcels w	ith no tax parcel numbe	r.	

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.



## **WASHINGTON STATE**

# Joint Aquatic Resources Permit Application (JARPA) Form [help]

# JARPA Attachment A: For additional property owner(s) [help]

Use this attachment <u>only</u> if you have more than one property owner.

	AGENCY USE ONLY
Date received	
Agency refer	ence #•
Tax Parcel #	

TO BE COMPLETED BY APPLICANT [help]

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch

UPI#: 091898-09-01

			Realignment; Skagit County, Washington				
Jse black or blue ink to en	nter answers in white spaces	s below or fill in electronica	lly by clicking on fields.				
4a. Name (Last, First,	Middle) and Organizatio	on (if applicable)					
State Waters							
4b. Mailing Address	(Street or PO Box)						
4c. City, State, Zip							
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	<b>41.</b> Fax	4g. E-mail				
( )	( )	( )					
Address or tax parce	el number of property y	ou own:					
No_ID							
4a. Name (Last, First,	, Middle) and Organizatio	on (if applicable)					
The Nature Conservar	ncy						
4b. Mailing Address	3 (Street or PO Box)						
Skagit Field Office: 410	0 N. 4th St						
4c. City, State, Zip							
Mt. Vernon, WA 98273	3						
<b>4d.</b> Phone (1)	<b>4e.</b> Phone (2)	<b>4f.</b> Fax	4g. E-mail				
(360) 419-7022	( )	( )					
Address or tax parce	el number of property y	ou own:					

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ORA publication number: ENV-020-09

17436, 17508, 17519

### US Army Corps of Engineers % Seattle District

# WASHINGTON STATE Joint Aquatic Resources Permit Application (JARPA) Form [help]

# JARPA Attachment D: Construction Sequence [help]

Use this attachment <u>only</u> if your project will be constructed in phases or stages. Complete the outline showing the construction sequence and timing of activities, including the start and end dates of each phase or stage.

	AGENCY USE ONLY	
Date received		
Agency refer	ence #:	
Tax Parcel #(	(s):	

TO BE COMPLETED BY APPLICANT [help]

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington

Use black or blue ink to enter answers in white spaces below or fill in electronically by clicking on fields.

Phase or Stage	Start Date	End Date	Activity Description
1	08/01/09	10/15/09	Fisher Slough floodgate replacement
2	6/01/10	10/15/10	Big Ditch Realignment & Levee Setback Pre-loading and Tributary and Tidal Marsh Channel Pre-Excavation
3	6/01/11	10/15/10	Levee Setback Final Loading, Levee Removal, Marsh and Riparian Plantings, Tributary & Tidal Marsh Channel Connections

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

Question 7g. Type and Rating of Each Impacted Wetland Question 7h. Source and Nature of Fill Material Question 7i. Excavation Method and Disposal Location

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment,

Skagit County, Washington



Soil Notes		Dispose: on site (adjacent prior converted cropland)	Dispose: use for S. Levee Pre-load (Task 2.7.3 or 2.7.5)	Dispose: on site (adjacent prior converted cropland)	Dispose: use for S. Levee Pre-load (Task 2.7.3 or 2.7.5) and stockpile for other activities	Dispose: on site (adjacent prior converted cropland)	Dispose: on site (adjacent prior converted cropland)
Soil I		Dispose: on a prior convert	Dispose: use Pre-load (Task	Dispose: on a prior convert	Dispose: use Pre-load (Task and stockp activ	Dispose: on : prior convert	Dispose: on a prior convert
Question 7i. Excavation method, type and amount of fill, CY removed, where disposed	2,255 CY	4,767 CY	19,003 CY	1,667 CY	7,260 CY	233 CY	5,419 CY
Question 7h. Source and nature of fill, CY used, placement in wetland	ı	,	•	•	•	,	ı
Wetland mitigation area (acres)		,	,	,	,	1	1
Proposed mitigation type <sup>4</sup>	,	1	ı	1	,	,	,
Duration of Impact <sup>3</sup>	۸ + 1 mo.	Permanent	Permanent	Permanent	Permanent	<3 mo.	Permanent
Impact area (acres)		C U	70.1		0.52	0.14	0.75
Wetland type and rating category <sup>2</sup>	Site 1 – PEM1h, Cat. 3 Site 2 – PEM1h, Cat. 2 Site 3 – PEM1h, Cat. 2	Site 1 – PEM1h, Cat. 3	Site 1 – PEM1h, Cat. 3	Site 2 – PEM1h, Cat. 2	Site 2 – PEM1h, Cat. 2	Site 2- R1EM, Cat. 2	Site 1 – PEM1h, Cat. 3
Description	Clear/Strip Parking Areas	Big Ditch Strip (Junquist)	Big Ditch Cut (Junquist)	Big Ditch Strip (Smith A)	Big Ditch Cut (Smith A)	Big Ditch Inverted Siphon Strip	Drainage Regrade
Task(s)¹	vi T	2.2.1	2.2.2	2.3.1	2.3.2	2.4.1	2.5
Activity causing impact (fill, drain, excavate, flood, etc.	Excavate	Excavate	Excavate	Excavate	Excavate	Excavate	Excavate
			II 384H	ld			

Soil Notes	Dispose: on site (adjacent prior converted cropland)	Phase II pre-load using	materials	Material not suitable for restoration site or adjacent farm due to invasive plant species		Dispose: on site (adjacent prior converted cropland)
Question 7i. Excavation method, type and amount of fill, CY removed, where disposed	7,407 CY	·	1	12,133 CY	ı	471 CY
Question 7h. Source and nature of fill, CY used, placement in wetland		4E 719 CV	5		26,726 CY	
Wetland mitigation area (acres)			,	ı	ı	3
Proposed mitigation type <sup>4</sup>	Œ	Œ	Œ	Œ	Œ	Œ
Duration of Impact <sup>3</sup>	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent
Impact area (acres)			4.79			0.07
Wetland type and rating category <sup>2</sup>	Site 2 – PEM1h, Cat. 2 Site 3 – PEM1h, Cat. 2	Site 2 – PEM1h, Cat. 2 Site 3 – PEM1h, Cat. 2	Site 2 – PEM1h, Cat. 2			
Description	South Levee Setback Pre- load 1' Strip	South Levee Setback Pre- load	S. Levee Setback Pre- load Fill	S. Levee Realign Pre- load 2' Strip	S. Levee Realign Pre- load 2' Fill	Smith A Pilot Channel Cut
Task(s)¹	2.7.1	2.7.2		2.7.4	2.7.5	2.8.1
Activity causing impact (fill, drain, excavate, flood, etc.	Excavate	臣	Ē	Excavate	Œ	Excavate
			ASE II cont.	'Hd		

Soil Notes	Dispose: on site (adjacent prior converted cropland)	Source: on site	Source: on site	Dispose: on site (prior converted cropland)			
Question 7i. Excavation method, type and amount of fill, CY removed, where disposed	952 CY	761 CY	3,353 CY	2,560 CY			,
Question 7h. Source and nature of fill, CY used, placement in wetland	ı	ı	ı	ı	3,000 CY	2,150 CY	20,000 CY (Not included in total; see below <sup>5</sup> )
Wetland mitigation area (acres)	1	1	•		,		•
Proposed mitigation type <sup>4</sup>	æ		•	•	ı	ı	ı
Duration of Impact <sup>3</sup>	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent
Impact area (acres)	0.10	0:20	0.02	0.41	,	ı	17.795
Wetland type and rating category <sup>2</sup>	Site 3 – PEM1h, Cat. 2	Site 2 – PEM1h, Cat. 2	Site 3 – PEM1h, Cat. 2	PCC			
Description	Smith B Pilot Channel Cut	Big Fisher Tributary Realign	Little Fisher Tributary Realign	Main Tidal Realign Cut	Smith A Drainage Fill	Smith B Drainage Fill	Haul and Grade Topsoil on Junquist Farm
Task(s) <sup>†</sup>	2.8.2	2.9.1	2.9.2	2.10.1	2.11.1	2.11.2	2.12
Activity causing impact (fill, drain, excavate, flood, etc.	Excavate	Excavate	Excavate	Excavate	Ē	Ē	<u>s</u>
				Il cont.	ISAHG		

Soil Notes			Assume 75% suitable material		
Question 7i. Excavation method, type and amount of fill, CY removed, where disposed	9,178 CY		28,179 CY <sup>6</sup>	6,393	114,990 CY
Ouestion 7h. Source and nature of fill, CY used, placement in wetland	,			·	77,589 CY5 -
Wetland mitigation area (acres)	,		ı	•	
Proposed mitigation type <sup>4</sup>	,		1	•	
Duration of Impact <sup>3</sup>	Permanent		Permanent	Permanent	
Impact area (acres)		4.79			13.60
Wetland type and rating category <sup>2</sup>	Site 2 – PEM1h, Cat. 2 Site 3 – PEM1h, Cat. 2; Site 4 – R2EM, Cat IV				Total
Description	South Levee Removal Strip 1' Topsoil		South Levee Removal Suitable Material	South Levee Removal Unuitable Material	
Task(s)¹	3.1.1		3.1.2	3.1.3	
Activity causing impact (fill, drain, excavate, flood, etc.	Excavate		Excavate	Excavate	
		III 38AH9			

UPI #: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Siphon Realignment; Skagit County, Washington

<sup>2</sup> Ecology wetland category based on current Western Washington Wetland Rating System. See Attachment G
<sup>2</sup> Ecology wetland category based on current Western Washington Wetland will be measurably impacted by the activity. Enter "permanent" if applicable.
<sup>4</sup> Creation (C), Re-establishment (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)
<sup>5</sup> Additional of topsoil to the Junquist property will not convert wetland to upland; it will remain as prior converted cropland.
<sup>6</sup> Additional of material are waterbody removal as part of existing Big Ditch Culvert demo

### **JARPA Attachment H Addendum**

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment, Skagit

County, Washington

### **Fisher Slough Restoration Project Impacts**

### Wetland fill

South Levee Setback: 6.69 ac

### Fill of Existing Channels

Big Ditch (2 areas): 2,070 lf 2.46 ac

Little Fisher Creek Ditch: 1,550 lf 0.35 ac (Note: convert to riparian)
South Levee ditches: 4,420 lf 1.80 ac (Note: convert to tidal wetlands)
Little Fisher Creek channel: 1,550 lf 0.35 ac (Note: convert to riparian area)

Big Fisher Creek channel: 100 lf 0.03 ac Main Tidal Channel Plug: 100 lf 0.11 ac

### **Conversion of Wetlands to channel**

Big Ditch: 4145 If 4.25 ac

Tidal Channel Realignment: 1,000 lf 0.79 ac

Pilot Channel A: 1,025 lf 0.07 ac
Pilot Channel B: 1,600 lf 0.11 ac
Big Fisher Creek: 1,671 lf 0.67 ac
Little Fisher Creek: 1,250 lf 0.11 ac

### **Excavation of Existing Channels**

North Levee ditch: 1,920 lf 0.75 ac

### Inverted Siphon Excavation/Backfill Area

Wetlands: 0.11 ac Channel: 0.33 ac

### Temporary Fill

Staging/stockpiling areas (3): 1.42 ac (Note: Temporary gravel fill area, only as needed, removed and restored upon project completion)

### **Restored Wetland Area**

Tidal Marsh: 49.7 ac (Note: 60.0 ac restored tidal marsh total acreage if including existing 10.0ac)

Question 8c. Waterbody Impacts
Question 8f. Source and Nature of Fill Material
Question 8g. Excavation Method and Disposal Location

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington



Soil Notes	Dispose: off site, upland location	Dispose: use for S. Levee Pre-load (Task 2.7.3 or 2.7.5) and stockpile for other activities	Source: on site from Task 2.2.1	Source: S. Levee (Tasks 3.1.1 and 3.1.2)	Source: S. Levee (Tasks 3.1.1 and 3.1.2)	Small fill at head of main tidal channel; source: on site		Big Ditch fill needs suitable material due to connection to levee	
Question 8g. Excavation method, type and amount of fill, CY removed, where disposed	40 CY	4,989 CY			1		2,560 CY	,	7.589 CY
Ouestion 8f. Source and nature of fill, CV used, placement in wetland	25 CY	2,494 CY	1,000 CY	1,000 CY	5,000 CY	741 CY		6,222 CY	16.482 CY
Duration of Impact <sup>3</sup>	Permanent	<3 mo.	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Total
Impact location <sup>2</sup>	Fisher Slough	Fisher Slough	Big Ditch	Little Fisher Or.	Big Fisher Cr.	Fisher Slough	Fisher	Big Ditch	
Waterbody Name	Floodgate Replacement	Big Ditch Inverted Siphon Cut	Big Ditch Fill U/S	Little Fisher Fill	Big Fisher Fill	Main Tidal Realign Plug Cut	Main Tidal Realign Plug Fill	Big Ditch Fill D/S	
Task(s)¹	0.0	2.4.2	2.6	3.2	3.3	3.4.1	3.4.2	9. 9.	
Activity causing impact (fill, drain, excavate, flood, etc.	Excavate	Excavate/Fill	II.	Ē	Ē	Excavate	Ē	Ē	
		II 38AH9				III 38AH	I		

<sup>&</sup>lt;sup>2</sup> 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 floodplain.
<sup>3</sup> Indicate the time (in months or years, as appropriate) the waterbody will be measurably impacted by the activity. Enter "permanent" if applicable.

# JARPA Attachment J: Additional Information

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment;

Skagit County, Washington

9a. If you have already worked with any government agencies on this project, list them below.				
Agency Name	Contact Name	Phone	Most Recent Date of Contact	
US Army Corps of Engineers	Randel Perry	206-764-6985	9/2/09	
US Fish and Wildlife Service	Ginger Phalen	360-753-5819	8/10/09	
	Paul Anderson	425-649-7148	5/1/09	
WA State Dept. of Ecology	Rebecca Piaget	425-649-7129	5/1/09	
	Daniel Downs	360-336-9410	6/25/09	
Skagit County	Ronny Audette	360-755-0988	8/1/08	
A STATE OF THE STA	Brian Williams	360-466-4345 x250	9/1/09	
WA State Dept. of Fish & Wildlife	Theresa Eturaspe	360-902-2575	8/1/08	
WA State Dept. of Historic Preservation	Allison Brooks	360-586-3065	5/15/09	
WA Department of Natural Resources	Brenda Worden	360-856-3500	9/1/09	



## JARPA Attachment K: Cultural Resources

UPI#: 091898-09-01

 $\label{eq:continuous} \begin{tabular}{ll} Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment; Skagit County, Washington \\ \end{tabular}$ 



## CULTURAL RESOURCES SURVEY COVER SHEET

Ple Author: Frank Stipe M.A.	ease submit reports unbound				
Title of Report: <u>Cultural Resour</u> <u>Project</u>	ce Survey for the Proposed Fisher Slough Restoration				
Date: <u>6/26/09</u>					
County(ies): Skagit County Sec.: 30 Township: 33N, Range: 4E 7.5' Quad: Conway, WA, 1985					
Acres: 20 acres <u>Does this replace a draft? No</u>					
Sites Found? None					
TCP(s) found? No traditional cultural properties were found					
DAHP Archaeological Site #:	REPORT CHECK LIST				
- Control of the Cont	Report should contain the following items:				
•	Clear objectives and methods				
	<ul> <li>A summary of the results of the survey</li> </ul>				
***	A report of where the survey records and data are stored				
	A research design that:     Details survey objectives				

Details area surveyed including map(s) and legal locational information
 Details how results will be feedback in the

 Details how results will be feedback in the planning process

Details specific methods Details expected results

Reports are now being accepted as single file PDF's and can be submitted on a CD along with the paper copy.

(Attach additional sheets as necessary) <a href="https://example.com/introduction">INTRODUCTION</a>

On behalf of The Nature Conservancy Tetra Tech conducted a cultural resource literature search, a pedestrian archaeological survey and subsurface testing regime for the proposed Fisher Slough Restoration Project. The project area is located in the southern part of Skagit County, Washington, south of the city of Conway in Section 30 of Township 33 North, Range 4 East, Willamette Meridian (Figure 1).

The proposed restoration project includes the replacement of an existing levee that runs along the south side of Fisher Slough, realigning Big Fisher Creek, realigning Little Fisher Creek, demolishing the existing Big Ditch culvert crossing and fill/re-grade the existing ditch which travels south through the southern levee. All of these project components are aimed at restoring the wetland south of Fisher Slough.

Tetra Tech conducted background research for information about historic and ethnographic uses of the project area and surveyed the project area and proposed staging areas. This study was done to meet the requirements of Section 106 of the National Historic Preservation Act for the U.S. Army Corps of Engineers Section 404 permit and funding under the National Oceanic and Atmospheric Administration. The work was also done to address state requirements for the protection of archaeological resources. No archaeological resources were identified during the survey, and no information about traditional Native American uses of the project location was found during the background research and literature review.

# **ENVIRONMENTAL SETTING**

The project area is located in Skagit County on the east side of Pioneer Highway, approximately 1 mile south of the city of Conway. Vegetation within the project area is composed of agricultural crops, grasses and forbs associated with open field re-growth, and cottonwood trees along agricultural field boundaries. Native vegetation has been disturbed by the presence of the dikes, levees, and agricultural activities. Within the surveyed areas the ground surface has undergone severe disturbance by levee and road construction, causing disturbed soils throughout the levee as well as those areas surrounding the levee. Presumably the soil for the levee came from these nearby fields.

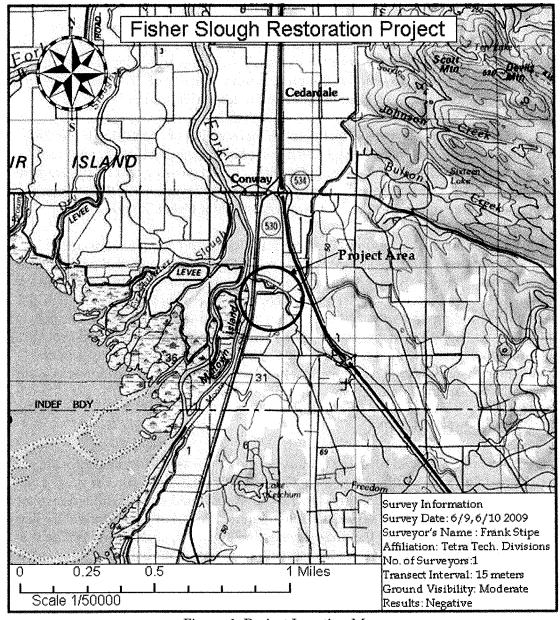


Figure 1. Project Location Map

# **BACKGROUND RESEARCH**

Records from the Washington Department of Archaeology and Historic Preservation (DAHP) and historic-period General Land Office (GLO) maps were examined to determine if archaeological sites or historic-period structures or features were present in or in the vicinity of the project area. The literature review and records search determined that several archaeological surveys have been conducted and several archaeological sites have been recorded in the vicinity of the Fisher Slough project area.

# Ethnographic Background

The project area falls within territory traditional occupied by northern Lushootseed speaking people. These people traditionally occupied villages containing one or more houses made from cedar planks. In the Puget Sound area, houses were traditionally occupied by multiple families. The primary occupation of the houses was winter, with only the disabled, elderly, and very young children remaining in the houses other times of year. Winter villages were typically located near rivers or near the shores of Puget Sound. In early Spring to late Fall, families typically left the winter villages to procure fish, game, and plant resources at seasonal camps (Suttles and Lane 1990).

# Historical Background

The first well-documented European explorations in the region took place in the 1770's, when explorers from England and Spain visited the region. After a period in which Euro American interests in the region were dominated by the fur trade in the early part of the nineteenth century, larger numbers of American settlers came to the Puget Sound area in the 1840's, especially after 1846, when the border between the United States and British North America was established at the 49th parallel (Ficken and LeWarne 1988:21-22). By the early 1850's, there were several American settlements on harbors and river mouths around Puget Sound (Ficken and LeWarne 1988:14-17).

In Skagit County, agriculture was an important economic activity in the early years of Euro American settlement. The construction of dikes and levees around the lower Skagit River area protected large tracts of land from spring flooding and allowed for the successful cultivation of oats, hay, fruits, and vegetables (Kunzler 2005). Dikes and levees were built from the time of the earliest Euro American settlement in the area in the 1860's. By 1884, 150 miles of dikes had been built in Skagit County and by the 1890's farmers along the Skagit River had organized themselves into diking districts to manage the construction of dikes and levees (Dwelly 1979:124; Willis 1975:169). The 1873 GLO map of Township 33N, Range 4 E, depicts two historic dikes mapped in the northeast corner of Section 30, within close proximity to the project area (GLO 1873). However, the locations of these dikes do not correspond to any of the existing dikes within and around the project area. A 1956 Conway, WA, USGS topographic quadrangle map depicts levees on each side of Fisher Slough, possibly corresponding to the current levees.

The abundant timber in the hills to the east of the Skagit River floodplain was heavily harvested and prompted the development of an extensive railroad network to transport timber (Thompson 1989:1-3, 1-4). One of the early railroad tracks built by the English Lumber Company in 1901 ran along the southern end of the Fisher Slough Restoration Project area (Thompson 1989:1-4). This early railroad network is depicted on the Mount Vernon, WA 1911 USGS topographic map. In the area to the immediate west of the project area, the English Lumber Company also set up a log dump at the west end of the Tom Moore Slough (Thompson 1989:1-4).

# Previous Archaeological Investigations

Eight cultural resource surveys have been conducted within 1 mile of the current project area.

In 2008, AINW conducted a pedestrian survey for the Fisher Slough Restoration Project, Floodgate Replacement Phase. This was the initial survey undertaken for this project. The survey did not identify any cultural resources within its project area (Adams 2008).

In 1998, Bert Rader conducted a reconnaissance survey for a deep water slough environmental enhancement project conducted by (Rader 1998). The survey was conducted approximately 100 m (330 ft) to the west of the current floodgate replacement location, and portions of the survey overlap the existing dike road to be used for project access. There were no cultural resources identified during the pedestrian survey and shovel testing conducted for this project (Rader 1998).

In 2007, Northwest Archaeological Associates (NWAA) conducted a cultural resource study for the Washington State Department of Transportation water quality improvements along Interstate 5 (Piper 2007). A portion of the study area was approximately 1 km (0.6 mi) east of the current floodgate replacement location. Due to the disturbed areas of road fill that comprised this portion of the study area, no archaeological survey work was recommended (Piper 2007).

In 2005, AINW conducted a cultural resource survey of Northwest Pipeline Corporation's Capacity Replacement Project. A segment of the survey area for this project was conducted at the City of Conway, located approximately 1.6 km (1 mi) north of the current floodgate replacement location. AINW recorded two resources during the pedestrian survey and shovel testing for this project: a historic railroad alignment (temporary field number AINWMTV-13) and a historic dike along Steamboat Slough (AINW-MTV-14) (Smits et al. 2005:6-25, 6-26, 6-29). The historic railroad alignment was originally built in 1891 as a part of the Seattle and Montana Railway (Schwantes 1993:77) and is of particular interest for the current project due to the fact that the railroad alignment is approximately 20 m (66 ft) east of the floodgate replacement area and crosses the existing dike road that will be used as a project access road.

In 2004, the U.S. Army Corps of Engineers completed a cultural resource sample survey for the Skagit River Levee Rehabilitation Projects (Kent 2004). Three of the surveyed areas were between 1.6 km (1 mi) and 2.4 km (1.5 mi) north of the current floodgate replacement project location. There were no cultural resources identified during the survey of these areas, although two of the rehabilitation locations were within the historic 1880 town site of Fir (45SK120) located approximately 1.6 km (1 mi) north of the current floodgate replacement location. The historic town site is considered eligible for listing in the National Register of Historic Places (NRHP) (Kent 2004:7).

In 2001, Western Shore Heritage Services conducted a view shed evaluation for American Tower Corporation (Hartmann 2001). The survey was conducted in the city of Conway approximately 1 mile north of the current floodgate replacement location and did not result in the identification of any new cultural resources (Hartmann 2001).

In 2000, NWAA conducted a cultural resources inventory for the Washington Department of Transportation's Washington Light Lanes Project (Juell et al. 2000). A portion of the project extended along Interstate 5 approximately 1 km (0.6 mi) east of the current floodgate replacement location, although no cultural resources were identified along this portion of the project (Juell et al. 2000).

In 1979, Seattle Community College conducted a cultural resource survey for a proposed Skagit River Levee and Channel Improvement Project (Blukis Onat et al. 1979). The survey was conducted along both sides of both forks of the lower Skagit River from Burlington to Skagit Bay. During the survey, Blukis Onat et al. identified and recorded site 45SK115 (historic-period town of Conway). They also recorded a Kikiallus village site at the town of Conway, although they did not identify any cultural material at the site and thus did not give the site a permanent site number. In total, 19 prehistoric sites were identified by Blukis Onat et al. during the field reconnaissance. Ten of the sites were evident in the field, while the remaining nine were mentioned in the literature and by informants, but searches yielded no archaeological evidence (Blukis Onat et al. 1979:71). Blukis Onat et al. (1979) noted several previously recorded sites within 1.6 km (1 mi) of the current project area, including 45SK113 (historic "Milltown"), 45SK73 (a prehistoric shell midden), located 0.8 km (0.5 mi) west of the project area, 45SK56 (a prehistoric shell midden/burial site) located 1.6 km (1 mi) south of the project area, 45SK50 (a prehistoric shell midden), located 0.4 km (0.25 mi) east of the project area, 45SK63 (a prehistoric shell midden) located 1.6 km (1 mi) east of the project area, and 45SK57 (a prehistoric shell midden) located 0.4 km (0.25 mi) west of the project area. The shell midden site 45SK50 is of particular interest due to the fact that it is located on the north side of Fisher Slough within the proposed second phase of the Fisher Slough restoration project. A celt (a wedge-shaped stone tool traditionally used for woodworking by Native Americans in the region) along with fragments of broken shell and animal bone were found in an approximately 10 square-meter (33 square-foot) area when the site was originally recorded in 1960 (University of Washington 1960). The site does not present an issue for the floodgate replacement. However, AINW recommends that the site be avoided, or tested and evaluated for National Register of Historic Places eligibility if it cannot be avoided, during later phases of the project. The testing and evaluation work will need to be done under a permit issued by the DAHP.

Five additional prehistoric shell middens have been recorded within 1.6 km (1 mi) of the current project area. The shell midden sites were all recorded by the University of Washington in the 1960's. These sites include 45SK49 (a prehistoric shell midden located at the foot of a terrace approximately 1.2 km [0.75 mi] south of the current project area), 45SK59 (a prehistoric shell midden located on the west bank of Katons Slough approximately 1.6 km [1 mi] northeast of the current project area), 45SK60 (a prehistoric shell midden located on the north bank of Katons Slough approximately 1.6 [1 mi] northeast of the current project area), 45SK61 (a prehistoric shell midden located near the main course of a filled-in slough approximately 1.6 km [1 mi] northeast of the current project area), and 45SK62 (a prehistoric shell midden located on a plowed field approximately 1.6 km [1 mi] northeast of the current project area).

# PEDESTRIAN SURVEY METHODS AND FINDINGS

On June 9, 10, 2009, Frank Stipe, M.A. Tetra Tech archaeologist completed the survey by walking 15 meter transects along the south levee, south of the south levee in the open fields and along all of the proposed access points and routes to be used by construction equipment. The specific areas of survey are seen in figure 2. The "Big Ditch" coming into the project area from the north will be re-graded and filled; this area is shown in red on figure 2. The soil surface could easily be seen along this corridor and no cultural materials were observed.

A total of 42 shovel test probes were completed. Shovel test probes were dug along the southern edge of the south levee and on top of the staging/stock piling areas on a 15 meter grid. The southern portion of the project area (A) near Franklin Road has been significantly disturbed by the installation of irrigation ditches. The soils have been depleted and contain little to no top soil, this is expected due to the significant amount of earth moving that took place to construct the levee. The field south (B) of the south levee was tested at 15 meter intervals 30 meters from the existing levees and contains similar soils and profiles as the southern field. Shovel test probes identified a very thin lense of darker soil near the surface but was immediately underlain by a disturbed soil which is likely the result of plowed subsoil. Intact subsoil was reached between 15 and 20 cm. below surface level. This subsoil contained light brown silty clay with less than 10% rounded gravels.

The property over and surrounding site 45SK50 was visually surveyed and no cultural materials were observed, the entire area where the site is located has been impacted by an existing road, agricultural activities on the adjacent property and the north levee construction. The agricultural field was intensively surveyed at 5 meter intervals and no cultural resources or features were observed. No cultural resources have been identified at the site location during this and 1 previous archaeological survey (Adams 2008).

No evidence of archaeological resources was found during the survey of the Fisher Slough Restoration Project and associated access roads. While the background research noted several archaeological sites in the Skagit River delta area, there was no information about ethnographic or Native American use areas for the immediate project area around the floodgate.

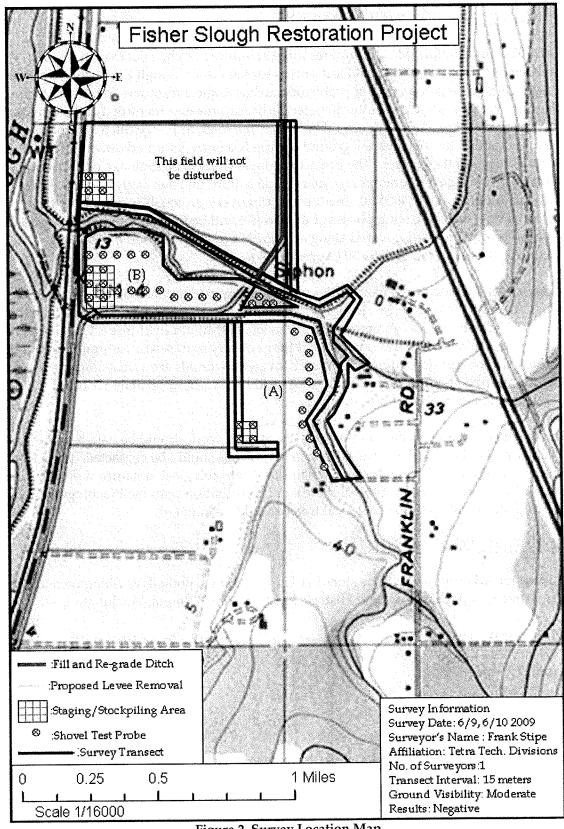


Figure 2. Survey Location Map

# SUMMARY AND RECOMMENDATIONS

Tetra Tech has completed a cultural resource literature search, a pedestrian archaeological survey and shovel test probes for the Fisher Slough Restoration project. There were no historic-period or prehistoric archaeological resources identified during the survey. No evidence of cultural materials or features was identified at the location of Site 45SK50. Based on agricultural activities, the road, drainage ditch and the levee, all found within the site area the ground surface has been disturbed down to at least several inches of the surface. The project proposes to alter the drainage ditch found within the site area, a contemporary man-made feature that has likely destroyed the original integrity of site 45SK50. Inadvertent discovery protocols used during the investigation and soil testing phases of this project will be used in the event that possible cultural resources are discovered along any portion of the proposed project area including the area around 45SK50 (Appendix A).

In the event that construction activities uncover suspected archaeological materials, work should be halted in the vicinity of the inadvertent discovery and a professional archaeologist should be contacted. The archaeologist should field-inspect the suspected archaeological materials and determine if they actually represent a cultural resource site. If the archaeologist determines that the discovered materials are archaeological in nature, the find should be recorded as a site and the Washington State Historic Preservation Office should be contacted.

In the event that any human remains are discovered, work should be halted in the vicinity of the find and local law enforcement officials should be contacted. If the local coroner determines that the human remains are archaeological in nature, a professional archaeologist should inspect the find area and consultation with the Washington State Historic Preservation Office and local tribes should be initiated.

#### SURVEY RECORDS AND DATA

Survey records and data will be stored at Tetra Tech Inc., Bothell, Washington and at Department of Archaeology and Historic Preservation, Olympia, Washington.

**PREPARER** 

Frank T. Stipe M.A.

Schwantes, Carlos A.

1993 *Railroad Signatures Across the Pacific Northwest*. University of Washington Press, Seattle, Washington.

Suttles, Wayne, and Barbara Lane

1990 Southern Coast Salish. In Northwest Coast, edited by Wayne Suttles, pp. 485-502. Handbook of North American Indians, vol. 7, W. C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.

Thompson, Dennis Blake

1989 Logging Railroad in Skagit County. Northwest Short Line, Seattle, Washington. University of Washington 1960 Site form for 45SK50. On file, Department of Archaeology and Historic Preservation, Olympia, Washington. Willis, Margaret (editor) 1975 Skagit Settlers, Trials and Triumphs, 1890-1920. Skagit County Historic Society Series No. 4, Mount Vernon, Washington.

# **REFERENCES**

#### Adams, Ron

<u>2008</u> Fisher Slough Restoration Project, Floodgate Replacement Phase. AINW. Cultural resource report on file at Washington DAHP.

Blukis Onat, Astrida R., Lee A. Bennett, Jan L. Hollenbeck, and Rick Oswald 1979 Cultural Resources Reconnaissance - Skagit River: Bibliographic Review and Field Reconnaissance for the Skagit River Levee and Channel Improvement Project. Seattle Community College. Submitted to Seattle District, U.S. Army Corps of Engineers, Seattle, Washington.

# Dwelley, Charles M. (editor)

<u>1979</u> *Skagit Memories: Stories of the Settlement Years as Written by the Pioneers Themselves.* Skagit County Historic Society Series No. 6, Mount Vernon, Washington.

### Ficken, Robert E., and Charles P. LeWarne

<u>1988</u> *Washington: A Centennial History*. University of Washington Press, Seattle and London.

# General Land Office (GLO)

1873 Plat of Township No. 33N, Range No. 4 East, Willamette Meridian. Electronic Document. Available, http://www.blm.gov/or/landrecords/survey/yPlatView1\_2.php?path=PWA&name=t330n040e\_001.jpg

# Hartmann, Glenn

2001 FCC Cellular Antennas Viewshed Evaluation, Site Name: Conway #43985, Conway, Washington. Western Shore Heritage Services Letter Report 0110B-2. Prepared for American Tower Corporation, Bainbridge Island, Washington.

#### Kent, Ronald J.

2004 Cultural Resource Sample Survey and Archaeological Monitoring Plan for the 2004 Skagit River Levee Rehabilitation Projects in the Vicinity of Mount Vernon and Fir Island Skagit County, Washington. U.S. Army Corps of Engineers, Seattle District, Washington Environmental Resources Section, Cultural Resources Report.

### Piper, Jessie

<u>2007</u> Cultural Resources Assessment of I-5/Dakota Creek Vicinity Water Quality Retrofit, Skagit and Whatcom Counties, Washington. Northwest Archaeological Associates, Inc., Seattle, Washington Report Number WA06-84. Prepared for H.W. Lochner and the Washington State Department of Transportation.

#### Rader, Bert

1998 Cultural Resources Reconnaissance of Deep Water Slough Environmental Enhancement, Section 1135 Project Near Milltown, Skagit County, Washington. Prepared by Corp of Engineers, Seattle District.

Project Photographs

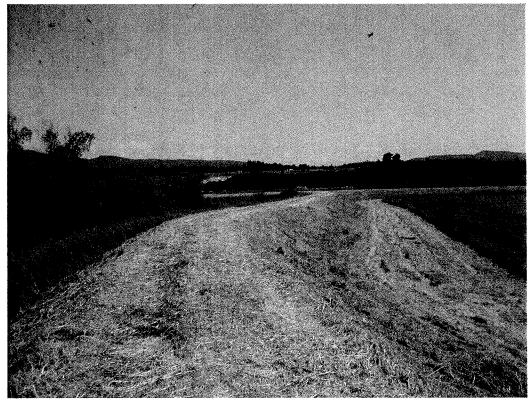


Photo 1, Facing SE along the south levee (this levee is to be removed so that those lands on the right side of the photograph can be returned to wetlands).



Photo 2, Facing NE towards Field B and the proposed staging/stock piling area

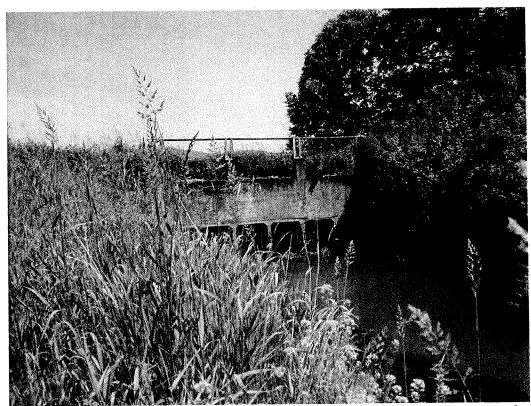


Photo 3, Facing NE towards the "Big Ditch Culvert Crossing" which will be removed

Appendix A

# PLAN AND PROCEDURES FOR THE UNANTICIPATED DISCOVERY OF CULTURAL RESOURCES AND HUMAN SKELETAL REMAINS

# FISHER SLOUGH RESTORATION PROJECT, SKAGIT COUNTY WASHINGTON

# 1. INTRODUCTION

The following Unanticipated Discovery Plan (UDP) outlines procedures to follow, in accordance with state and federal laws, if archaeological materials or human remains are discovered.

# 2. RECOGNIZING CULTURAL RESOURCES

A cultural resource discovery could be prehistoric or historic. Examples include:

- An accumulation of shell, burned rocks, or other food related materials
- Bones or small pieces of bone,
- An area of charcoal or very dark stained soil with artifacts,
- Stone tools or waste flakes (i.e. an arrowhead, or stone chips),
- Clusters of tin cans or bottles, logging or agricultural equipment that appears to be older than 50 years,
- Buried railroad tracks, decking, or other industrial materials.

When in doubt, assume the material is a cultural resource.

# 3. ON-SITE RESPONSIBILITIES

STEP 1: STOP WORK. If any employee, contractor or subcontractor believes that he or she has uncovered a cultural resource at any point in the project, all work adjacent to the discovery must stop. The discovery location should be secured at all times.

STEP 2: NOTIFY MONITOR. If there is an archaeological monitor for the project, notify that person. If there is a monitoring plan in place, the monitor will follow its provisions.

STEP 3: NOTIFY PROJECT MANAGEMENT AND CULTURAL RESOURCES PROGRAM. Contact the The Nature Conservancy Project Manager and the Cultural Resources (CR) Program Manager:

The Nature Conservancy Project
Manager:
Jenny Baker
360.419.7022
jbaker@tnc.org

If you can't reach the TNC Program manager, contact your project's assigned Cultural Resources Specialist or an alternate:

Assigned CR Specialist:

Frank Stipe 425-482-7821

frank.stipe@tetratech.com

Alternate:

David Cline, P.E. 206.728.9655 x112

David.cline@tetratech.com

The Project Manager or the Cultural Resources Program will make all other calls and notifications.

If human remains are encountered, treat them with dignity and respect at all times. Cover the remains with a tarp or other materials (not soil or rocks) for temporary protection in place and to shield them from being photographed. Do not call 911 or speak with the media.

# 4. FURTHER CONTACTS AND CONSULTATION

# A. Project Manager's Responsibilities:

- Protect Find: The Project Manager is responsible for taking appropriate steps to protect the discovery site. All work will stop in an area adequate to provide for the total security, protection, and integrity of the resource. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed following provisions for treating archaeological/cultural material as set forth in this document.
- <u>Direct Construction Elsewhere On-site</u>: The Project Manager may direct construction away from cultural resources to work in other areas prior to contacting the concerned parties.
- <u>Contact CR Manager</u>: If the CR Program Manager has not yet been contacted, the Project Manager will do so.

# B. CR Program Manager's Responsibilities:

- <u>Identify Find</u>: The CR Program Manager (or a CR Specialist if so delegated), will ensure that a qualified professional archaeologist examines the find to determine if it is archaeological.
  - o If it is determined not archaeological, work may proceed with no further delay.
  - o If it is determined to be archaeological, the CR Manager or CR Specialist will continue with notification.
  - o If the find may be human remains or funerary objects, the CR Manager or CR Specialist will ensure that a qualified physical anthropologist examines the find. If it is determined to be human remains, the procedure described in Section 5 will be followed.
- Notify DAHP: The CR Program Manager (or a CR Specialist if so delegated)
  will contact the involved federal agencies (if any) and the Department of
  Archaeology and Historic Preservation (DAHP).
- <u>Notify Tribes</u>: If the discovery may relate to Native American interests, the Manager or Specialist will also contact the project's Tribal Liaison, or, if the project is not assigned a Liaison, the Executive Tribal Liaison.

# Federal Agencies:

National Oceanic and Atmospheric

Administration Name: Polly Hicks

Title: Restoration Ecologist Number: 206-526-4861

Email: polly. hicks@noaa.gov

# Department of Archaeology and Historic Preservation:

Dr. Allyson Brooks

Dr. Robert Whitlam State Archaeologist

State Historic Preservation Officer

360-586-3080

360-586-3066

The Tribal Liaison, or CR Program Manager or Specialist, will contact the interested and affected Tribes.

Tribes consulted on this project are:

# Swinomish Indian Tribal

Community

Name: Larry Campbell

Title: Tribal Historical

Preservation Officer Number:360-466-7352

Email:

lcampbell@swinomish.nsn.us

# Sauk-Suiattle Tribe

Name: Richard Wolten Number: 360-436-1124

Email: nrd@sauk-suiattle.com

# Stillaguamish Tribe

Name: Victoria Yaeger Title: Cultural Resource

Specialist

Number: 360-652-7362 ext 228 Email: vikkrs@comcast.net

# C. Further Activities

- Archaeological discoveries will be documented as described in Section 6.
- Construction in the discovery area may resume as described in Section 7.

# 5. SPECIAL PROCEDURES FOR THE DISCOVERY OF HUMAN SKELETAL MATERIAL

Any human skeletal remains, regardless of antiquity or ethnic origin, will at all times be treated with dignity and respect.

If the project occurs on federal lands (e.g., national forest or park, military reservation) the provisions of the Native American Graves Protection and Repatriation Act of 1990 apply, and the responsible federal agency will follow its provisions. Note that state highways that cross federal lands are on an easement and are not owned by the state.

If the project occurs on non-federal lands, will comply with applicable state and federal laws, and the following procedure:

# A. Notify Law Enforcement Agency or Coroner's Office:

In addition to the actions described in Sections 3 and 4, the Project Manager will immediately notify the local law enforcement agency or coroner's office.

The coroner (with assistance of law enforcement personnel) will determine if the remains are human, whether the discovery site constitutes a crime scene, and will notify DAHP.

# B. Participate in Consultation:

Per RCW 27.53.030, RCW 68.50, and RCW 68.60, DAHP will have jurisdiction over non-forensic human remains. personnel will participate in consultation.

# C. Further Activities:

- Documentation of human skeletal remains and funerary objects will be agreed upon through the consultation process described in RCW 27.53.030, RCW 68.50, and RCW 68.60.
- When consultation and documentation activities are complete, construction in the discovery area may resume as described in Section 7.

# 6. DOCUMENTATION OF ARCHAEOLOGICAL MATERIALS

Archaeological deposits discovered during construction will be assumed eligible for inclusion in the National Register of Historic Places under Criterion D.

Cultural Resources Program staff will ensure the proper documentation and assessment of any discovered cultural resources in cooperation with the federal agencies (if any), DAHP, affected tribes, and a contracted consultant (if any).

All prehistoric and historic cultural material discovered during project construction will be recorded by a professional archaeologist on State of Washington cultural resource site or isolate form using standard techniques. Site overviews, features, and artifacts will be photographed; stratigraphic profiles and soil/sediment descriptions will be prepared for subsurface exposures. Discovery locations will be documented on scaled site plans and site location maps.

Cultural features, horizons and artifacts detected in buried sediments may require further evaluation using hand-dug test units. Units may be dug in controlled fashion to expose features, collect samples from undisturbed contexts, or interpret complex stratigraphy. A test excavation unit or small trench might also be used to determine if an intact occupation surface is present. Test units will be used only when necessary to gather information on the nature, extent, and integrity of subsurface cultural deposits to evaluate the site's significance. Excavations will be conducted using state-of-the-art techniques for controlling provenience.

Spatial information, depth of excavation levels, natural and cultural stratigraphy, presence or absence of cultural material, and depth to sterile soil, regolith, or bedrock will be recorded for each probe on a standard form. Test excavation units will be recorded on unit-level forms, which include plan maps for each excavated level, and material type, number, and vertical provenience (depth below surface and stratum association where applicable) for all artifacts recovered from the level. A stratigraphic profile will be drawn for at least one wall of each test excavation unit.

Sediments excavated for purposes of cultural resources investigation will be screened through 1/8-inch mesh, unless soil conditions warrant ¼-inch mesh.

All prehistoric and historic artifacts collected from the surface and from probes and excavation units will be analyzed, catalogued, and temporarily curated. Ultimate disposition of cultural materials will be determined in consultation with the federal agencies (if any), DAHP, and the affected tribes.

Within 90 days of concluding fieldwork, a technical report describing any and all monitoring and resultant archaeological excavations will be provided to the Project Manager, who will forward the report to the Cultural Resources Program for review and delivery to the federal agencies (if any), SHPO, and the affected tribe(s).

If assessment activity exposes human remains (burials, isolated teeth, or bones), the process described in Section 5 above will be followed.

# 7. PROCEEDING WITH CONSTRUCTION

Project construction outside the discovery location may continue while documentation and assessment of the cultural resources proceed. A CR Specialist must determine the boundaries of the discovery location. In consultation with DAHP and affected tribes, Project Manager and Cultural Resources Program staff will determine the appropriate level of documentation and treatment of the resource. If federal agencies are involved, the agencies will make the final determinations about treatment and documentation.

Construction may continue at the discovery location only after the process outlined in this plan is followed and (and the federal agencies, if any) determine that compliance with state and federal laws is complete.

# JARPA Attachment L: Self-certification HRP Limit 8

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment;

**Skagit County, Washington** 



# Self-certification of Proposed Habitat Restoration Activity

# Consistency with the

# Habitat Restoration Program, 4(d) Rule, Limit 8

In order for a proposed habitat restoration activity to be consistent with the Habitat Restora HRP ar

The HF meet th

	n Program (HRP), the project proponent needs to review the elements of the tertify, using the checklist below.
	includes habitat protection and restoration projects funded by the SRFB that following characteristics:
	Are part of a habitat portion of a salmon recovery plan approved by a Regional Salmon Recovery Organization and the State of Washington and published in the Federal Register by NMFS; and
	Are part of an adopted Implementation Schedule developed by a Regional Organization to implement the habitat portion of a Salmon Recovery Plan; and
	Are funded in part or wholly with Washington State and/or Pacific Coastal Salmon Recovery Fund (PCSRF) monies managed by the SRFB and are consistent with the technical and procedural criteria outlined by SRFB; and
	Are being done for the purpose of habitat restoration; <u>and</u> Are projects that fit within a specific list of eligible actions:
In-	Stream Passage
In-	Stream Diversion Screening
In-	Stream Habitat
Rip	parian Habitat Restoration
Up	land Habitat Restoration or Protection
$E_{\Sigma}$	tuarine and Marine Nearshore Habitat Restoration
/5/	Project Proponent Date

# JARPA Attachment M: Fish Habitat Enhancement Exemption

UPI#: 091898-09-01

Project Name: Fisher Slough - Tidal Marsh Restoration, Levee Setback, and Big Ditch Realignment;

**Skagit County, Washington** 



### STATE OF WASHINGTON DEPARTMENT OF FISH AND WILDLIFE HABITAT PRGRAM

April 20, 2009

10:

Habitat Program Sta

FROM:

Greg Hucckel, Assistant Buedio

Habitat Program

SUBJECT: STREAMLINED FISH HABITAT ENHANCEMENT PROCESS

In 2008, Regulatory Services Section staff worked to develop size and scale criteria for the streamlined Fish Habitat Enhancement Process (FHEP), as directed by Chapter 77.55.181 RCW. However, after conversations with staff and interested parties, we have decided that it is prudent to roll the policy discussions related to size and scale criteria into the planning effort underway to develop a Habitat Conservation Plan for the Hydraulic Project Approval (HPA) program.

By doing this, we avoid making piecemeal HPA policy changes. We will also ensure that any size and scale criteria developed will be scientifically sound and well vetted through the extensive interested party involvement process associated with Habitat Conservation Plan development. This direction will delay the implementation of any new size and scale criteria, if deemed necessary through the planning process, until approximately 2011.

We have, however, updated the interim guidance for the FHEP. As part of this update, regional and headquarters managers recommended that decisions related to project eligibility for the FHEP be made by Area Habitat Biologists and Regional Habitat Program Managers.

Effective immediately, Area Habitat Biologists, in consultation with their Regional Habitat Program Manager, will be responsible for determining whether a project qualifies for use of the PHEP using the attached interim guidance. The Area Habitat Biologist will need to notify the local governments of projects considered eligible for use of the streamlined process and wait the 15-day comment period.

All Area Habitot Biologists and Regional Habitat Program Managers need to review the attached interim guidance for details on how the process will be implemented. Teresa Etaraspe will continue to be available to assist with questions regarding project eligibility and she will be coming to each region later this spring to provide training designed to maintain statewide consistency in how the process is implemented.

If you have questions. Teresa can be reached at (360) 902-2575

Attachment: Streamlined Fish Habitat Enhancement Process Interim Guidance (including

attachments)

ce: Kathryn McLood, AAG Neil Wise, AAG

# Appl ation for Streamlined Procesing of FISH HABITAT ENHANCEMENT PROJECTS

Addition to the Joint Aquatic Permit Application (JARPA)

Under RCW 77.55.181 you may qualify for a streamlined permit process with no fees if your project is designed to enhance fish habitat. If your project meets the requirements below, you are entitled to the streamlined Hydraulic Project Approval (HPA) process, exemption from the State Environmental Policy Act (SEPA), and exemption from all local government permits and fees. To apply for the exemption process, you must provide, on the same day, a complete application package to: the Department of Fish and Wildlife (WDFW) and all applicable local government planning and permitting departments. Local governments have 15 days to provide comments to WDFW to aid it in deciding whether your project qualifies (see below for details).

To QUALIFY for the fish habitat enhancement exemption you must check at least one each from A and B and provide a letter of

approval from one of the agencies listed in B. It is highly recommended you discuss your proposal with the local Area Habitat Biologist (AHB) prior to submitting your application. A) My project (check all that apply): Removes a human-made fish passage barrier Restores an eroded or unstable stream bank using bioengineering techniques Places woody debris or other in-stream structures that benefit naturally reproducing fish stocks B) My project is approved by (check all that apply): WDFW's Salmon Enhancement, or Volunteer Cooperative Fish and Wildlife Enhancement Programs The sponsor of a watershed restoration plan as provided in chapter 89.08RCW WDFW, as a department-sponsored fish enhancement or restoration project Conservation District, where the project complies with design standards established by the Conservation Commission through interagency agreement with the United States Fish and Wildlife Service and the Natural Resource Conservation Service A formal grant program established by the legislature or the Department of Fish and Wildlife for fish habitat enhancement or restoration. To APPLY for the Exemption, submit two copies of a complete application package consisting of the following documents to the local government planning department and WDFW and indicate below which local government agency you are sending your application to and when you are sending it. Two copies of: This addition to the JARPA A completed JARPA 2009 Plan drawings (no larger than 11 x 17 format) Letter of approval of your specific project from one of the agencies listed in B I am sending my application to the following local government planning department: xx/xx/20xx

# PLEASE NOTE:

Skagit County

• In addition to applying for this streamlined processing, you need to apply for all other applicable Federal and State permits identified in the JARPA.

on: 11/23/2009 (Date)

- If WDFW determines that your project meets the fish habitat enhancement exemption criteria, SEPA and all local government permits and fees are waived. WDFW will process your HPA within 45 days of receiving your complete application.
- If significant concerns are raised during the 15-day comment period regarding adverse impacts from your project that cannot be addressed through HPA conditions, WDFW may determine that the project does not qualify for the exemption process. If WDFW makes that decision, you may re-apply to WDFW, the applicable local government, and any other applicable permitting agency for approval under the full permitting process. If WDFW determines that your project does NOT qualify for the exemption, or if your application is incomplete, you and the local government planning department will be notified.

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Applicant Name:						متحضا
Jenny Baker, The Nature Conservancy						
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Unique Project Identifier (UPI) # (See JARPA section 1a):	91898-09-	01				

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