



# EPA Puget Sound Financial and Ecosystem Accounting Tracking System (FEATS) v. September 2012 for Lead Organization Subawardees

*Photo by Rebecca Pirtle, Editor, Kingston Community News (Doe-Kag-Wats Estuary of the Suquamish Tribe)*

## PROJECT INFORMATION

<b>1. Federal Grant Number</b>	PA-01J276-01	<b>*2a. Reporting Period Start Date:</b>	10/1/2016	<b>*2b. Reporting Period End Date:</b>	4/30/2017
<b>3. Subaward Organization (Name and complete address including zip code)</b>			<b>4. Subaward Project Manager Contact Information</b>		
Name: Upper Skagit Indian Tribe Address 1: 25944 Community Plaza Way Address 2: City: Sedro-Woolley State: WA Zip Code: 98284-			Name: Jon-Paul Shannahan Phone: (360) 854-7089 Ext: Fax: (360) 854-7042 Email: jonpauls@upperskagit.com		
<b>5a. EPA Program</b>		<b>5b. Subaward Project Title and Contract No.</b>		<b>*6. Collaborating Organizations/Partners</b>	
LO - Tribal		Skagit River juvenile steelhead survival and residualization / 15EPA PSP442			

<b><u>Subawardee Submission Instructions:</u></b>  LO fills in the white boxes. Subawardee fills in the yellow boxes (boxes with asterisks). Refer to guidance document for how to fill out the boxes. After filling out the yellow boxes, save and e-mail it to your LO Project Manager for approval. LO will roll up the information and submit to EPA for approval.	<b>LO Project Manager:</b> Dani Madrone <b>LO:</b> NWIFC <b>Phone:</b> 360.528.4318 <b>email:</b> dmadrone@nwifc.org  <b>LO Program Coordinator:</b> <b>LO:</b> <b>Phone:</b> <b>email:</b>  <b>EPA Project Officer:</b> Lisa Chang	<b>*7a. Name/Title of Person Submitting Report</b>	Michael LeMoine Fisheries Scientist
		<b>*7b. Date Report Submitted</b>	4/26/2017

## FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	184100	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2016 ----- ----- -----	*9. Amount Spent To-Date:	\$53,441.25	*10. Amount Reimbursed To-Date:	
11. Match Amount Required	\$0.00	*12. Total Match Amount Spent and Documented To-Date:		*13. Have you experienced any cost overruns or high unit costs?			
*14. What issues or questions do you need the LO Project Manager to respond to?							

## BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
Personnel	\$88,098.00	\$0.00	\$88,098.00	\$23,113.46		\$23,113.46
Fringe Benefits	\$25,549.00	\$0.00	\$25,549.00	\$5,312.28		\$5,312.28
Travel	\$0.00	\$0.00	\$ 0.00	\$0.00		\$ 0.00
Equipment	\$7,532.00	\$0.00	\$7,532.00	\$6,832.58		\$6,832.58
Supplies	\$11,950.00	\$0.00	\$11,950.00	\$3,278.62		\$3,278.62
Contracts	\$0.00	\$0.00	\$ 0.00	\$0.00		\$ 0.00
Other	\$2,000.00	\$0.00	\$2,000.00	\$450.00		\$ 450.00
<b>TOTAL DIRECT CHARGES</b>	<b>\$135,129.00</b>	<b>\$0.00</b>	<b>\$135,129.00</b>	<b>\$38,986.94</b>		<b>\$38,986.94</b>
Indirect Charges	\$48,971.00	\$0.00	\$48,971.00	\$14,454.31		\$14,454.31
<b>TOTAL</b>	<b>\$184,100.00</b>	<b>\$0.00</b>	<b>\$184,100.00</b>	<b>\$53,441.25</b>		<b>\$53,441.25</b>
*Explain Any Discrepancies:						

## ECOSYSTEM GOALS ADDRESSED

16a. Primary Goal	Healthy Species
16b. Additional Goals	-----

## DIRECT THREATS ADDRESSED

17a. Primary Threat	-----
17b. Secondary Threat(s)	-----

## LINKAGES TO PUGET SOUND ACTION AGENDA (Version Adopted August 2012)

18a. Primary Strategic Initiative	Tribal Habitat Priorities
18b. Sub-Strategies Employed	6.4
18c. Near-Term Actions Supported	

## LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

19. Measure(s)	-----
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## LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

20a. Primary Indicator	-----
20b. Secondary Indicators	-----

## PROJECT LOCATION

21a. Latitude	48.444147	21b. Longitude	-122.327628
21c. Hydrologic Unit Code	17110007 - Lower Skagit	-----	-----
21d. Action Area	Whidbey	-----	-----

## MEASURES OF SUCCESS (Key Outputs)

*22a. Description (e.g., "shellfish beds reopened")	*22b. Unit (e.g., "acres")	*22c. Project Target ("number")	*22d. Project Measure To-Date ("number")

## PROJECT MILESTONES

**Instructions:** In the tables below, please explain your progress toward meeting agreed outputs for the period, **reasons for slippages**, and any additional information including **reflections, lessons learned, and/or thoughtful analysis**. When appropriate, include analysis and information of **cost overruns or high unit costs**, and changes to work plan or budget not requiring prior approval from EPA. We encourage photo documentation - please attach to the report as a separate document.

<b>23a. Subaward Work Plan Component/Task:</b> Skagit River juvenile steelhead survival and residualization					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b>					
<b>*23c. Estimated Costs:</b>					
<b>Actual Costs to Date:</b>					
<b>(If required to report – contact your Project Manager)</b>					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
1.1	Apply for ESA take permits and HPA requests	2/1/17	COMPLETED	Permits obtained	Permits were obtained for 2017 work window.
1.2	Project Management	4/30/17	CURRENT	FEATS reports	
1.3	Amend previously developed project QAPP to reflect any changes or modifications to the study protocol. Get approved amended QAPP	4/30/17	CURRENT	Approved QAPP Addendum	We have a current QAPP. We are updating to include in-river acoustic work and mark-recapture-resight-recovery methodologies and the new draft QAPP is currently undergoing internal review.

1.4	Purchase equipment. Modify and/or fix screw traps and weir fence panels	4/15/17	COMPLETED	Equipment purchased, modified and repaired	We modified debris drives of smolt traps and replaced fatigued hardware (nuts and bolts).
1.5	Maintain PIT antenna array in Hansen Creek and Illabot Creeks	4/30/17	CURRENT	Annual maintenance of PIT antennas	Certain components of the PIT antennas are not performing to specification. Tags are being detected efficiently, but replacement of some main boards and wires will be required. We will be replacing antenna components once stream discharge decreases and allow for safe working conditions.
1.6	Training for surgical implanting of acoustic tags	4/3/17	COMPLETED	USIT staff trained in procedures for surgical implantation in February or March	We conducted a surgical training in collaboration with Bellingham Technical College (BTC). We trained 6 USIT staff on safe handling and surgical tagging of fish following publish guidelines. We also provided training for staff from Sauk-Suattile tribe and for faculty at BTC. BTC students observed and asked questions during training to provide opportunity to observed acoustic tagging.
1.7	Install and operate tributary smolt traps to collect fish for acoustic data	4/30/17	CURRENT	Traps installed and operated between Apeil and May with three sets per week	Smolt traps were installed on 3/31/2017 in Hansen Creek and Illabot Creek. Fish are being collected for acoustic tagging at expected rate.
1.8	Implement in-river survival and residualization: deployment and operation of acoustic mobile work	4/30/17	CURRENT	Place 10 acoustic receiver lines within the Skagit Basin (April-July)	We installed 12 acoustic receiver lines and have conducted two range and detection efficiency tests. We observed one receiver that was hit by large woody debris and dislodge. Deployment design worked perfectly to protect instrument while not losing the device. The dislodged receiver was redeployed next day.
1.9	Implement in-river survival and residualization: conducting acoustic mobile work	4/30/17	CURRENT	Place 10 acoustic receiver lines within the Skagit Basin (April-July)	We completed our first mobile survey and detected two tagged fish in the mainstem river. We also evaluated detection

					efficiencies and detection range during the mobile work. Detection ranges decrease in the lower stretches of the River that can be attributed to the construction and traffic noise. Methods developed as part of this first mobile work were included in the draft QAPP.
1.10	Implement tributary survival and residualization: mark and recapture	4/30/17	PLANNED	Fish collected twice over the year in a mark/recapture survey in July and September. Scale and tissue samples taken from tagged fish.	Will begin in July
1.11	Implement tributary survival and residualization: resight and recovery	4/30/17	PLANNED	Mobile resights conducted through the five reaches of the tributary during winter and spring flows.	Will begin in August
1.12	Estimate in-river survival and residualization	4/30/17	PLANNED	Depending on detection rates, we will estimate apparent survival or survival with residualization. Similar to the tributary output, we will build encounter histories to estimate survival and residualization from a multi-state resight/recovery model. These rates will be compared to flow and temperature.	
1.13	Estimate tributary abundance, survival and residualization	4/30/17	PLANNED	Abundances will be estimated twice (July and September) using mark-recapture techniques that will be corrected for capture efficiency. Overall watershed abundance will be estimate through spatial modeling	

				<p>techniques from the reach level data. Summertime survival will be estimated from both abundance estimates using a multi-state mark recapture model. During winter and spring, as flows permit, we will track tagged individuals using resight/recovery techniques to identify live and dead fish. Resight/Recovery detections will be used to estimate winter survival. Both techniques along with detections at PIT antennas will be used to develop an encounter history so to estimate survival and residualization.</p>	
1.14	Develop final report and commincate findings	4/30/17	PLANNED	Final report; Present findings to cooperators	

**CHALLENGES AND SOLUTIONS (specific to reporting period)**

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution

**HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS**

\*25.