



# 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-00J912-02	<b>*2a. Reporting Period Start Date:</b>	10/01/2016	<b>*2b. Reporting Period End Date:</b>	3/31/2017
<b>3. Subaward Organization (Name and complete address including zip code)</b>			<b>4. Subaward Project Manager Contact Information</b>		
Name: Muckleshoot Indian tribe Address 1: 39015 172 <sup>nd</sup> Avenue S.E. Address 2: City: Auburn State: WA Zip Code: 98092-			Name: Allison Laird Phone: (253) 876-3114 Ext: Fax: (253) 939-5311 Email: allison.laird@muckleshoot.nsn.us		
<b>5a. EPA Program</b>		<b>5b. Subaward Project Title and Contract No.</b>		<b>*6. Collaborating Organizations/Partners</b>	
LO - Tribal		Soos Creek Juvenile Salmonid Outmigration Monitoring / 15EPA PSP410		Washington Department of Fish and Wildlife	

<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> Northwest Indian Fisheries Commission <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>	Mike Mahvolich Manager, Harvest Management
		<b>*7b. Date Report Submitted</b>	04/30/2017

## FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	\$112,200.00	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2015 ----- ----- -----	*9. Amount Spent To-Date:	\$112,200.00	*10. Amount Reimbursed To-Date:	\$112,200.00
11. Match Amount Required	\$0.00	*12. Total Match Amount Spent and Documented To-Date:	\$0.00	*13. Have you experienced any cost overruns or high unit costs?	n/a		
*14. What issues or questions do you need the LO Project Manager to respond to?		None at this time.					

## BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
Personnel	\$87,424.00	\$0.00	\$87,424.00	\$89,050.78	\$0.00	\$89,050.78
Fringe Benefits	\$21,987.00	\$0.00	\$21,987.00	\$21,896.42	\$0.00	\$21,896.42
Travel	\$1,789.00	\$0.00	\$1,789.00	\$1,252.80	\$0.00	\$1,252.80
Equipment	\$0.00	\$0.00	\$ 0.00	\$0.00	\$0.00	\$ 0.00
Supplies	\$200.00	\$0.00	\$ 200.00	\$0.00	\$0.00	\$ 0.00
Contracts	\$0.00	\$0.00	\$ 0.00	\$0.00	\$0.00	\$ 0.00
Other	\$800.00	\$0.00	\$ 800.00	\$0.00	\$0.00	\$ 0.00
<b>TOTAL DIRECT CHARGES</b>	\$112,200.00	\$0.00	\$112,200.00	\$112,200.00	\$0.00	\$112,200.00
Indirect Charges	\$0.00	\$0.00	\$ 0.00	\$0.00	\$0.00	\$ 0.00
<b>TOTAL</b>	\$112,200.00	\$0.00	\$112,200.00	\$112,200.00	\$0.00	\$112,200.00
*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	A.1 A.6 D.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	Wild Chinook Salmon
20b. Secondary Indicators	-----

## PROJECT LOCATION

21a. Latitude	47.31156	21b. Longitude	-122.16692
21c. Hydrologic Unit Code	17110013 - Duwamish	-----	-----
21d. Action Area	South Central Puget Sound	-----	-----

## 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")
Successful sub-yearling Chinook efficiency trials conducted to date	Efficiency trials		20
Successful yearling coho efficiency trials conducted to date	Efficiency trials		8
Successful chum efficiency trials conducted to date	Efficiency trials		2

## 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> Soos Creek Juvenile Salmonid Outmigration Monitoring / 15EPA PSP410					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b>					
*23c. Estimated Costs: \$112,200.00 Actual Costs to Date: \$112,200.00 (If required to report – contact your Project Manager)					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
1.1	Develop QAPP for approval by 1/1/16	12/12/16	COMPLETED	EPA Approved QAPP	QAPP approved by EPA 12/31/15
1.2	Project implemented and data collected by a full time biologist	07/2016	COMPLETED	Coordination with WDFW's Soos Creek Hatchery, staffing, purchase and/or assembling supplies, vehicle scheduling, technician training, and supervision	Completed July 2016

1.3	Install floating rotary screw trap, checking and maintaining trap , sampling and recording data	07/2016	COMPLETED	Catch and mark-recapture data for population estimation and other biological data	Completed July 2016
1.4	Remove trap and on-site facilities to restore site to pre-project conditions	7/2016	COMPLETED	Compliance with provisions outlined in the projects Hydraulic Project Approval permit issued by WDFW.	All provisions outlined in HPA were followed at completion of out-migration season.
1.5	Conduct spawning habitat assessment	11/2016	COMPLETED	Identification of Chinook spawning reaches and estimates for a habitat-based spawning escapement for Chinook, including habitat unit types/rations, photographs, descriptions of stream conditions	Completed November 2016.
1.6	Conduct Chinok spawning surveys	11/2016	COMPLETED	Chinook redd counts and locations using GPS, maps of redd locations, counts of live and dead Chinook observed, including any pre-spawning mortalities found	Completed November 2016
1.7	Analyze daily catch data and mark-recapture rates; perform error checks and analyze bio-sampling data; compile and analyze habitat inventory data	12/2016-06/2017	CURRENT	Calculated annual juvenile population estimates and egg-to-emigrant survival; Estimates of spawning ground capacity for Chinook Salmon in subbasin streams developed based on habitat data and redd survey data collected	Work on this task is ongoing.
1.8	Prepare final report(s)	11/2016-12/2017	CURRENT	A draft and final report that describes the data collected, methods, juvenile out-migrant and egg-to-emigrant survival estimates. A separate report or appendix will be prepared focusing on the methods and results of the spawning ground surveys, habitat inventory, and related analyses and conclusions/recommendations	Work on this task is ongoing.

## CHALLENGES AND SOLUTIONS (specific to reporting period)

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

## HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

### \*25.

A rotary screw trap was placed in Soos Creek to sample out-migrating juvenile salmonids in 2016 throughout the duration of the juvenile Chinook out-migration period. An estimated 16,987 ( $\pm 2,470$ ) sub-yearling Chinook and 8,642 ( $\pm 4,265$ ) yearling coho emigrated from the Soos Creek Basin from January 8 to June 26, 2016. Egg-to-emigrant survival rates are estimated at 2.8% for sub-yearling Chinook and 0.6% for yearling coho (assumes all coho from Brood Year 2014 reared for 1 year upstream of screw trap before emigrating as yearling coho). BY15 Chinook egg-to-emigrant survival rates are the lowest since trapping Soos Creek in 2012. Low survival might correlate to the December 9th flood in 2015 which potentially caused redd gravel scour.

Chinook Spawning ground surveys were conducted in the fall for Brood Year (BY) 2016; to establish escapement estimates, to improve egg-to-emigrant survival estimates, and to establish pre-spawn mortality (PSM) rates for Chinook returning to Soos Creek. QA/QC and analysis of habitat assessment and spawning data is ongoing.