



## 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-00J322-01	<b>*2a. Reporting Period Start Date:</b>	10/1/16	<b>*2b. Reporting Period End Date:</b>	3/31/17
<b>3. Subaward Organization (Name and complete address including zip code)</b> Name: Tulalip Tribe Address 1: 6404 Marine Drive Address 2: City: Tulalip State: WA Zip Code: 98271-			<b>4. Subaward Project Manager Contact Information</b> Name: Todd Zackey Phone: (360) 716-4637 Ext: Fax: ( ) - Email: tzackey@tulaliptribes-nsn.gov		
<b>5a. EPA Program</b>  LO - Tribal		<b>5b. Subaward Project Title and Contract No.</b>  FY 2013 Noncompetitive Tribal Projects for Restoration and Protection of Puget Sound / 13 EPA PSP440		<b>*6. Collaborating Organizations/Partners</b>	

<p><b><u>Subawardee Submission Instructions:</u></b></p> <p>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.</p>	<p><b>LO Project Manager:</b> Rachel Norman  <b>LO:</b> Northwest Indian Fisheries Commission  <b>Phone:</b> 360.528.4318  <b>email:</b> rnorman@nwifc.org</p> <p><b>LO Program Coordinator:</b>  <b>LO:</b>  <b>Phone:</b>  <b>email:</b></p> <p><b>EPA Project Officer:</b> Lisa Chang</p>	<b>*7a. Name/Title of Person Submitting Report</b>	Todd Zackey Marine Program Manager
		<b>*7b. Date Report Submitted</b>	

## FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	166090	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2013 ----- ----- -----	*9. Amount Spent To-Date:	164421	*10. Amount Reimbursed To-Date:	164421
11. Match Amount Required	0	*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	31629		\$31,629.00	29152		\$29,152.00
Fringe Benefits	8559		\$8,559.00	5012		\$5,012.00
Travel	507		\$ 507.00	1507		\$1,507.00
Equipment	13500		\$13,500.00	12925		\$12,925.00
Supplies	\$0.00		\$ 0.00			\$ 0.00
Contracts	\$99,382.00		\$99,382.00	108798		\$108,798.00
Other	\$0.00		\$ 0.00			\$ 0.00
<b>TOTAL DIRECT CHARGES</b>	<b>\$153,217.00</b>		<b>\$153,217.00</b>			<b>\$ 0.00</b>
Indirect Charges	\$12,873.00		\$12,873.00	7027		\$7,027.00
<b>TOTAL</b>	<b>\$166,090.00</b>		<b>\$166,090.00</b>	<b>164421</b>		<b>\$164,421.00</b>
*Explain Any Discrepancies:						

## ECOSYSTEM GOALS ADDRESSED

16a. Primary Goal	Healthy Habitat
16b. Additional Goals	Healthy Species    Water Quality    -----    -----    -----    -----

## 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.1.1    A.1.2    A.6.1    A.6.3    A.6.4    B.2.2    D.4.1.1    A.2.1    A.5.1
18c. Near-Term Actions Supported	

## LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

19. Measure(s)	Habitat Restored/Protected    -----    -----
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## LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

20a. Primary Indicator	Estuaries
20b. Secondary Indicators	Wild Chinook Salmon    Floodplains    Freshwater Quality    Stream Flows

## PROJECT LOCATION

21a. Latitude	48°01'N	21b. Longitude	122°09'W
21c. Hydrologic Unit Code	17110011 - Snohomish	-----	-----
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")
Updated 2014 Fish Monitoring Data File	Data File	1	1
Snohomish Estuary 2014 Habitat Conditions Report	Report	1	1
Snohomish Basin Beaver Habitat Monitoring Installation and Strategy Report	Report	1	1

## 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> Monitoring ecosystem response to restoration and climate change in the Snohomish River estuary					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b> A.1, A.6., B.2, B.5, D.4, Continue to build an accessible, peer-reviewed base of scientific knowledge about ecosystem status, effectiveness of recovery strategies and actions and ecosystem indicators that provides policy-relevant information for decision makers					
<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	Engage in project management including, project reporting, grant budget management, and assuring all grant requirements are met. The Principle Investigator (PI) will be responsible for managing and coordinating the subcontract, the monitoring effort, ensuring QA/QC procedures are met, and the final project report.	9/30/15	CURRENT	Reporting on project updates, budgets, and task accomplishment; FEATS reports and updates	Ongoing.

1.2	Develop QAPP Addendum	7/31/14	COMPLETED	Continued development of a monitoring plan for the Snohomish Estuary; EPA approved QAPP	QAPP has been completed and approved by EPA .
1.3	Conduct outreach and planning in order to conduct effective and relevant monitoring efforts, fill data gaps, implement adaptive management in light of changing climatic conditions, and seek further support to continue the necessary monitoring needs of the Snohomish estuary.	3/31/15	COMPLETED	Expanded and formalized collaboration on monitoring across restoration projects and throughout the rest of the estuary; Estuary Working Group workshops on monitoring results, strategies and collaborative opportunities.	Presentation was given to the Snohomish Basin Salmon Recovery Technical Committee.
1.4	Engage in data collection to assess the current conditions across the Snohomish Estuary system and long-term monitoring sites to track long-term changes in the estuary. Across the estuary, biological data will be collected for fish assemblages residing in the estuary, hydrological conditions will be assessed utilizing water column profiling instruments, and sediment conditions will be assessed utilizing sediment surface elevation tables (SET) previously set up in 2013.	3/31/15	COMPLETED	2014 system-wide fish sampling data file (assemblage composition, abundance, distribution), 2014 system-wide hydrological monitoring data file (including salinity, conductivity, water levels, and temperature), and Long terms system-wide SET monitoring sites and sediment accretion level data file	Monitoring and data collection has been completed for the 2014 sample year and data files are compiled.
1.5	Conduct monitoring analysis and final write up including an updated system-wide monitoring strategy framework and a report of the project results. Monitoring strategies and project results will be developed via a workshop with regional stakeholders and restoration project proponents through the Estuary Working Group.	3/31/15	COMPLETED	Completed/updated monitoring plan for restoration and salmon recovery actions in the Snohomish River Estuary; Assessment of the distribution, abundance, migration, and timing of Chinook and other salmonids.	Updated monitoring plan/report has been completed and is attached.

**23a. Subaward Work Plan Component/Task:** Evaluating the use of beaver relocation as an ecosystem tool in headwater streams of the Snohomish River Basin

**23b. 2012 Action Agenda Near-Term Action(s) Supported:** A.2, D.2, D.3.1.6 Scoping and implementing the linkages between habitat protection and restoration goals with the creation of forest ecosystem markets, focusing on key ecosystem attributes that will reflect a healthy, resilient economy.

**\*23c. Estimated Costs:**

**Actual Costs to Date:**

**(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
2.1	Develop a post-relocation Quality Assurance Project Plan for ecological monitoring and beaver relocation; Establish relocation goals and objectives, and assemble appropriate relocation partners; Research permits necessary for relocation	9/30/14	COMPLETED	EPA approved QAPP; Partners assembled and research goals and objectives established	QAPP has been completed and approved by EPA .
2.2	Evaluate and select release sites from a subgroup of suitable sites identified in FY11 beaver monitoring project's Task: beaver population and habitat characterization; Compile list of licensed animal trappers and determine feasibility of utilizing a trapping service for beaver capture. Identify beaver source locations for trapping if utilization of trappers is not found to be feasible or does not supply sufficient numbers of beavers	9/30/14	COMPLETED	Animal trapper list if determined that their use is feasible; Map of optimal beaver relocation sites in the Snohomish Basin	Animal trappers were not needed for relocation, in that the project team was able to source and trap the beaver for relocation. Map of optimal beaver relocation sites has been completed and submitted.
2.3	Develop plan and protocol for establishment and operation of facility for secure, healthy, and short-term animal husbandry	9/30/14	COMPLETED	Animal holding facility protocol manual	Beaver intake procedures and husbandry protocol manual have been submitted.
2.4	Acquire necessary permits for relocation and monitoring; Construct beaver holding facility; Coordinate with trappers in acquisition of captured beavers	9/30/14	COMPLETED	Permits required for relocation and monitoring; Completed beaver holding facility	Permits were not required for relocation since relocation occurred on Forest Service lands and a relocation agreement was made between the Forest Service and Tulalip Tribes. Beaver holding facility was constructed and several beaver(s) have been trapped and relocated.
2.5	Initiate trapping and holding; Release beaver at select sites	3/31/15	COMPLETED	Successful initiation of a beaver relocation	Trapping and relocation has been completed and the Beaver

				strategy; Release of pairs or families of beavers in at least 3 sites; Beaver relocation strategy report summarizing findings from previous tasks, environmental baseline conditions, finalized basin-specific relocation protocol, and implementation timeline.	Relocation Strategy Report is attached.
2.6	Monitor success of beaver colonies at release sites; Complete annual survey of fish, riverine habitats, riparian vegetation, and physiographic features	3/31/15	COMPLETED	Identification of ecological and hydrologic conditions present before and after beaver relocation; Monitoring installation and strategy report discussing sampling plan, mortality and emigration rates, habitat, water quality and hydrologic conditions, and observations on effect of beaver introduction at sites.	Monitoring of relocation has been conducted and pre- & post-release monitoring has been reported in the Relocation Strategy Report (attached)
2.7	Host 3 meetings to inform stakeholder on project status; Management of contracts, budget, and FEATS reporting	3/31/15	COMPLETED	Summary of correspondence with project partners; Presentation to beaver working group of project status; FEATS Reporting and project management	An outreach report has been attached.

**23a. Subaward Work Plan Component/Task:** Support and Analysis for Resource Management and Restoration Policies for Tulalip Tribes Participation in Pilot Study for EPA Triple Value Simulation Project for the Snohomish and Stillaguamish Basins

**23b. 2012 Action Agenda Near-Term Action(s) Supported:** A1, C2, C3, C7

**\*23c. Estimated Costs:**

**Actual Costs to Date:**

**(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
3.1	Contribute to initial brief for start-up, which will cover scoping and problem definition, initial conceptual model design, project plan, data gathering, and preparatory phone and in-person meetings with EPA, Snohomish County, and others in the 3V planning team	3/31/15	COMPLETED	Contribution to scoping section; Proposed components of problem definition; Contribution to EPA's Initial concept-level model design; Contribution to project plan; Summary of data gathering to date to inform the 3V process.	Discussion was conducted about components and carbon potentials.
3.2	Conduct stakeholder engagement to assess current perception of risks, likely outcomes, and desired outcomes among different constituents in the river basin and its resources	9/30/14	COMPLETED	By Jan. 30, the first three interviews are completed; abstracts are prepared; additional data is gathered as required to inform development of sustainability indicators. At least seven more interviews are conducted and reported by May 1; Interview abstracts	Summary report of interviews has been submitted to EPA
3.3	Research and evaluate policy options, indicators, intervention strategies and their potential benefits, model design issues, and next steps	9/30/14	COMPLETED	Second brief and comments on preliminary conceptual model are complete by April 30, 2014	Preliminary conceptual recommendation has been submitted.
3.4	Develop final report and recommended next steps for Tulalip. The draft will be circulated for review by the 3V team and key collaborators. Lessons from reviews of the draft report and insights from specific applications of the work will be incorporated into the final draft.	9/30/14	COMPLETED	Draft report by August 15, 2014; Revised and final report by November 30, 2014	Preliminary conceptual recommendation has been submitted.



3.5	Project management, including reporting, grant budget management, and assuring all grant requirements are met	9/30/15	CURRENT	FEATS reports and updates	Ongoing.
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**CHALLENGES AND SOLUTIONS (specific to reporting period)**

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

**HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS**

\*25.