



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

1. Federal Grant Number	PA-00J912-01	*2a. Reporting Period Start Date:	10/1/2017	*2b. Reporting Period End Date:	3/31/2018
3. Subaward Organization (Name and complete address including zip code) Name: Tulalip Tribe Address 1: 6404 Marine Drive Address 2: City: Tulalip State: WA Zip Code: 98271-			4. Subaward Project Manager Contact Information Name: Todd Zackey and Daryl Williams Phone: (360) 716-4636 Ext: Fax: () - Email: tzackey@tulaliptribes-nsn.gov, darylwilliams@tulal		
5a. EPA Program LO - Tribal	5b. Subaward Project Title and Contract No. FY 2014 Noncompetitive Tribal Projects for Restoration and Protection of Puget Sound / 14 EPA PSP440		*6. Collaborating Organizations/Partners		

<p><u>Subawardee Submission Instructions:</u></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>LO Project Manager: Dani Madrone LO: Northwest Indian Fisheries Commission Phone: 360.528.4318 email: dmadrone@nwifc.org</p> <p>LO Program Coordinator: LO: Phone: email:</p> <p>EPA Project Officer: Lisa Chang</p>	*7a. Name/Title of Person Submitting Report	Todd Zackey
		*7b. Date Report Submitted	4/30/2018

FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	\$112,450.00	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2014 ----- ----- -----	*9. Amount Spent To-Date:	\$111,747.66	*10. Amount Reimbursed To-Date:	\$111,747.66
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?	No		
*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	\$10,368.00		\$10,368.00	\$11,429.56		\$11,429.56
Fringe Benefits	\$2,961.29		\$2,961.29	\$3,491.76		\$3,491.76
Travel	\$500.00		\$ 500.00	\$0.00		\$ 0.00
Equipment	\$0.00		\$ 0.00			\$ 0.00
Supplies	\$17,526.65		\$17,526.65	\$15,512.79		\$15,512.79
Contracts	\$74,094.06		\$74,094.06	\$74,094.00		\$74,094.00
Other	\$0.00		\$ 0.00			\$ 0.00
TOTAL DIRECT CHARGES	\$104,131.00		\$104,131.00	\$101,499.56		\$101,499.56
Indirect Charges	\$7,000.00		\$7,000.00	\$7,219.55		\$7,219.55
TOTAL	\$112,450.00		\$112,450.00	\$11,747.66		\$11,747.66
*Explain Any Discrepancies:	Needed more staff time to completet work and had excess funds in supplies and fringe benefits were higher than predicted. Medical & Vision, FICA, and State Unemployment cost were higher than predicted. Less than 10% was shifted to account for these differences in budget line items					

ECOSYSTEM GOALS ADDRESSED

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

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 B.5.3 D.4.2 D.4.1.1 A.7.1
18c. Near-Term Actions Supported	

LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

19. Measure(s)	Habitat Restored/Protected ----- -----
----------------	--

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”)

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.

23a. Subaward Work Plan Component/Task: Monitoring ecosystem response to restoration and climate change in the Snohomish River estuary					
23b. 2012 Action Agenda Near-Term Action(s) Supported:					
*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
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.	3/31/18	COMPLETED	Reporting on project updates, budgets, and task accomplishment; FEATS reports and updates	

1.2	Develop QAPP Addendum	4/30/17	CANCELLED		The fish, hydrology and sediment dynamics data collection is operating under the 2013 QAPP. Due to staffing shortages and timing we decided to transfer funds (salaries) from the Plankton monitoring component to bolster the hydrologic monitoring. We had a widespread failure in our older temperature, depth, and salinity loggers which along with a need to expand the network within the estuary necessitated that we reallocate funds to purchase new data loggers to ensure that we monitor the effects of large scale restoration on the Snohomish estuary's hydrodynamics. Plankton monitoring was still conducted but Tribal funds were utilized to conduct the work which resulted in no need to update the existing QAPP for the Snohomish estuary monitoring work.
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.	4/30/17	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.	The Snohomish Estuary Monitoring Group consisting of NOAA NWFSC, the Tulalip Tribes, and Snohomish County and the USGS continues to work collaboratively to continue monitoring restoration projects in the Snohomish Estuary and fill data gaps. The EPA funding helped with cementing this group effort going forward.
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. In alignment with regional Puget Sound zooplankton sampling,	4/30/17	COMPLETED	2015 system-wide fish sampling data file (assemblage composition, abundance, distribution), 2015 Whidbey Basin zooplankton sampling data file (e.g., station	In 2016 in collaboration with partners from the Snohomish Estuary Monitoring Group a total of 430 beach seines and 27 fyke net sets were completed throughout the estuary and at the Qwuloolt Restoration Site by the Tulalip Tribes with a total of 615 conducted by Tulalip and its

	<p>monitoring in the Whidbey Basin will be conducted at 2 primary sites located off of Mukilteo and Camano Island with protocols and methods similar to regional efforts. Across the sample sites biological and environmental conditions will be collected for zooplankton assemblages residing in the water column (using oblique and vertical tows).</p>			<p>location, time, depth, tow type, flow, weather, etc.)</p>	<p>monitoring partners in the estuary. Monitoring in the estuary is categorized into two different sampling bins, Estuary System-wide, and Qwuloolt Monitoring. 185 beach seine samples were taken across the estuary as part of the Estuary System-wide effort and 430 beach seine samples and 27 fyke net samples were taken at both in the Qwuloolt Restoration site and at reference sites that are part of the Qwuloolt Restoration project monitoring effort. All monitoring data has been entered into a database and is undergoing QA/QC by NOAA Northwest Fisheries Science Center staff. NOAA Pacific Coastal Salmon Recovery Funds were used to fund the majority of this monitoring effort with EPA NEP helping to supplement that effort.</p>
1.5	<p>A genetic and demographic assessment will be conducted utilizing DNA samples to analyze salmonid origin as well as stock contribution (Skykomish vs. Snoqualmie vs. out of basin) throughout the Snohomish Estuary. The assessment will focus on analyzing 13 GAPS microsatellite loci and provides multiloci genotypes for juvenile Chinook captured in the estuary. Additionally, the assessment will compare the juvenile genotypes to adult baseline genotypes previously collected in the Snohomish Basin.</p>	9/30/17	CANCELLED	<p>Genetic processing, data analysis and write-up of the preliminary genetic assessment of stock contribution and salmonid origin in the Snohomish Estuary</p>	<p>The grant has been fully expended and the report has not been completed. We are still working on finishing the report and expect to have it completed by the end of July 2018. Reconciling and compiling all the DNA data has been more complicated and time consuming than anticipated. This along with loss of NOAA staff has left us short-handed for our work</p>
1.6	<p>Report on conditions and trends of Snohomish Estuary habitats and restoration projects, with analysis and write-up primarily focused on Snohomish Estuary fish monitoring.</p>	9/30/17	CANCELLED	<p>Completion of Snohomish Estuary monitoring plan and results from the 2015 sample year</p>	<p>The grant funding has been fully expended and due to staffing shortages we have been delayed in finishing this report. As a solution we are incorporating the data and timeframe covered by this funding into the FY2017 grant report which will cover data from</p>

					2009 to 2017. This also makes sense when reporting fish data since it will incorporate multiple years of fish data which can be highly variable from year to year. This report will be provided by the end of August 2018.
--	--	--	--	--	--

23a. Subaward Work Plan Component/Task: Monitoring water resources on the Tulalip Reservation

23b. 2012 Action Agenda Near-Term Action(s) Supported:

***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	Engage in project management, including project reporting, grant budget management, and assuring all grant requirements are met	4/30/17	COMPLETED	Reporting on project updates, budgets, and task accomplishment	
2.2	Develop Quality Assurance Project Plan for hydrologic data collection including stream gauging methodologies and telemetry station information.	4/30/17	COMPLETED	Approved QAPP	The USGS has developed it own QAPP for operation of there stream gauging stations. We have submitted a copy of the QAPP to the NWIFC.
2.3	Continue the USGS subcontract to operate the five stream gages located on three main streams on the Tulalip Reservation: Tulalip Creek (EF, WF, and mainstem), Mission (Battle) Creek (mainstem), and Coho Creek (mainstem)/Quil Ceda Creek. Use these gage data to preserve, maintain, and archive critical baseline surface water flow data on the	4/30/17	COMPLETED	Continuous, precise, quantifiable records of maximum, minimum, and mean daily discharge available by telemetry from the five stream gages and made readily available using standard USGS protocols (e.g. real-time flow conditions). Gauging data uploaded to STORET	Since the USGS already maintains and provides easy access to all of the stream gauge data, including realtime data, online uploading of the data was determined to be redudant and unessicary. Stream gauge data can be viewed and downloaded on the USGS's National Water Information System: Web Interface (https://waterdata.usgs.gov/wa/nwis/current/?type=flow)

	Tulalip Reservation for the management and preservation of adequate water supplies that meet the needs of fish, wildlife, plants and their habitats on the Tulalip Reservation.				
--	---	--	--	--	--

CHALLENGES AND SOLUTIONS (specific to reporting period)

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
1.1		
1.2		
1.4		
1.5	QA/QCing DNA data and reconciling with multiple databases from other agencies is taking longer than expected	The grant has been fully expended and the report has not been completed. We are still working on finishing the report and expect to have it completed by the end of July 2018. Reconsiling and compiling all the DNA data has been more complicated and time consuming than anticipated. This along with loss of NOAA staff has left us shorthanded for our work
1.6	Heavey workload due to the passing of project co-PI in 2016 and another NOAA staff person left in 2017.	The grant funding has been fully expended and due to staffing shortages we have been delayed in finishing this report. As a solution we are incorporating the data and timeframe covered by this funding into the FY2017 grant report which will cover data from 2009 to 2017. This also makes sense when reporting fish data since it will incorporate multiple years of fish data which can be highly varialble from year to year. This report will be provided by the end of August 2018.

HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

*25.

