



## 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-00J276-01	<b>*2a. Reporting Period Start Date:</b>	10/1/2017	<b>*2b. Reporting Period End Date:</b>	3/31/2018
<b>3. Subaward Organization (Name and complete address including zip code)</b> Name: Snoqualmie Indian Tribe Address 1: 8130 Railroad Ave. Ste. 103 Address 2: City: Snoqualmie State: WA Zip Code: 98065-			<b>4. Subaward Project Manager Contact Information</b> Name: Cindy Spiry Phone: (425) 292-249 Ext: Fax: (206) 384-6588 Email: cindy@snoqualmiation.com		
<b>5a. EPA Program</b>  <b>LO - Tribal</b>	<b>5b. Subaward Project Title and Contract No.</b>  Snoqualmie & Sammamish Stewardship Action Project II / 16EPA PSP446	<b>*6. Collaborating Organizations/Partners</b>  King County Parks, Mountains to Sound Greenway Trust, Private Landowners, Mid-Sound Fisheries Enhancement Group, Trout Unlimited, King County Land and Water Resources Division, City of Sammamish, Lake Sammamish Kokanee Work Group.			

<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> Dani Madrone  <b>LO:</b> Northwest Indian Fisheries Commission  <b>Phone:</b> 360.528.4318  <b>email:</b> dmadrone@nwifc.org</p> <p><b>EPA Project Officer:</b> Lisa Chang</p>	<p><b>*7a. Name/Title of Person Submitting Report</b></p> <p style="text-align: center;">Cindy Spiry ENR Director</p>	<p><b>*7b. Date Report Submitted</b></p> <p style="text-align: center;">4/30/2018</p>
---	--	---	---

## FUNDING/COST ANALYSIS

<b>8a. Total Assistance Amount Awarded:</b>	\$184,100.00	<b>8b. Funding Year (Federal Fiscal Year Funds Appropriated)</b>	FY 2016 ----- ----- -----	<b>*9. Amount Spent To-Date:</b>	\$41,068.78	<b>*10. Amount Reimbursed To-Date:</b>	\$32,947.76
<b>11. Match Amount Required</b>	\$0.00	<b>*12. Total Match Amount Spent and Documented To-Date:</b>		<b>*13. Have you experienced any cost overruns or high unit costs?</b>			
<b>*14. What issues or questions do you need the LO Project Manager to respond to?</b>							

## BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
<b>Personnel</b>	\$47,560.00	\$0.00	\$47,560.00	\$10,798.57		\$10,798.57
<b>Fringe Benefits</b>	\$14,268.00	\$0.00	\$14,268.00	\$2,971.12		\$2,971.12
<b>Travel</b>	\$0.00	\$0.00	\$ 0.00			\$ 0.00
<b>Equipment</b>	\$4,000.00	\$0.00	\$4,000.00			\$ 0.00
<b>Supplies</b>	\$29,750.00	\$0.00	\$29,750.00	\$10,612.78		\$10,612.78
<b>Contracts</b>	\$55,512.00	\$0.00	\$55,512.00	\$10,754.80		\$3,500.00
<b>Other</b>	\$0.00	\$0.00	\$ 0.00			\$ 0.00
<b>TOTAL DIRECT CHARGES</b>	\$151,090.00	\$0.00	\$151,090.00	\$35,137.27		\$35,137.27
<b>Indirect Charges</b>	\$33,010.00	\$0.00	\$33,010.00	\$5,931.51		\$5,931.51
<b>TOTAL</b>	\$184,100.00	\$0.00	\$184,100.00	\$41,068.78		\$41,068.78
<b>*Explain Any Discrepancies:</b>						

## ECOSYSTEM GOALS ADDRESSED

<b>16a. Primary Goal</b>	Healthy Habitat
<b>16b. Additional Goals</b>	Healthy Species -----

## DIRECT THREATS ADDRESSED

<b>17a. Primary Threat</b>	Invasive Species - Terrestrial
<b>17b. Secondary Threat(s)</b>	-----

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

<b>18a. Primary Strategic Initiative</b>	Tribal Habitat Priorities
<b>18b. Sub-Strategies Employed</b>	1.2 2.2 6.4 15.3
<b>18c. Near-Term Actions Supported</b>	2016-0334 2016-0333 2016-0231 2016-00360

## LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

<b>19. Measure(s)</b>	Habitat Restored/Protected -----
-----------------------	----------------------------------

## LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

<b>20a. Primary Indicator</b>	Floodplains
<b>20b. Secondary Indicators</b>	Wild Chinook Salmon -----

## PROJECT LOCATION

<b>21a. Latitude</b>	47.567324	<b>21b. Longitude</b>	-121.888727
<b>21c. Hydrologic Unit Code</b>	17110010 - Snoqualmie	-----	-----
<b>21d. Action Area</b>	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> Lake Sammamish Native Kokanee Habitat					
<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	Project Management: a. Participate in project planning meetings with City and partners b. Notify landowner prior to planned project activities and events c. Hold monthly staff meetings to discuss/manage project d. Hire, schedule and manage contracted field work crews e. Prepare and submit semi-annual and final grant reports	3/31/18	CURRENT	Reports submitted to NWIFC; Staff/crew informed and trained	a&b.Planning & coordination with City of Sammamish, landowners and other stakeholders continues. d. Coordinated and managed WCC Crews to assist with noxious weed control and planting on both creeks.

1.2	<p>Riparian Enhancement:</p> <p>a. Record infestations of invasive non-native noxious weed species using GPS and map in GIS.</p> <p>b. Reference historical and inventory current vegetation communities in determining planting plans for forested wetland and understory planting.</p> <p>c. Finalize buffer enhancement site revegetation plan and submit to the landowner, Mr. Pereyra for review and approval.</p> <p>d. Contract w/labor crew to assist with noxious weed removal &amp; control; and site revegetation on both Zackuse and Ebright Creeks</p> <p>e. Clear, cut and hand remove target non-native noxious weed species including Himalayan blackberry, Bittersweet nightshade, reed canary grass, English ivy and English holly using gas powered equipment and hand tools</p> <p>f. Plant shade tolerant conifers in understory along channel and in wetland buffer to increase over-story tree densities and infill open canopy areas previously overtaken by invasive plants with deciduous tree and shrub communities</p> <p>g. Plant suitable native tree and shrub species using locally adapted nursery grown 1, 2 &amp; 5 gallon container stock, bare root and live stake plant material produced from local seed sources (Buffer widths for Zackuse and Ebright will average 100')</p> <p>h. Plant common and less frequent traditional ethno-botanically significant native plant species that are important to the Snoqualmie Tribe</p>	3/31/18	CURRENT	Riparian planting plans created; Landowner approval of site restoration plan; At least 5 acres of target invasive plant species removed and controlled; Min. of 5,000 native tree, shrub and groundcover species planted; Establish 5 acres of riparian forested wetland buffer integrating culturally significant plant species	2,350 native plants were installed within a 1.6 buffer area along Ebright Creek buffer during fall/winter 2017. 220 native plants were installed within a small portion of the Zackuse Creek buffer in February 2018. Main planting on Zackuse Creek is planned for fall 2018.
1.3	<p>Monitoring &amp; Maintenance:</p> <p>a. Create and submit QAPP for Site Vegetation Monitoring</p>	3/31/18	CURRENT	Maintain site 2-3 times per year in years 1-3; 80% or greater plant	Received approved Vegetation Monitoring QAPP from EPA, which was developed to cover all

	<p>b. Set-up baseline, transects and photo points for annual vegetation monitoring</p> <p>c. Perform annual vegetation monitoring during June to August</p> <p>d. Complete regular buffer maintenance to ensure plant establishment &amp; survival rates. Maintenance activities will include: invasive plant control (mowing) &amp; weed suppression, browse protection, watering and mulching, plant replacement</p>			survival achieved after 3rd year	the Tribe's riparian sites in the Snoqualmie and Sammamish Watersheds. Initial maintenance, mulching around plants was completed in November & December 2017. Seasonal maintenance and 1 <sup>st</sup> year vegetation monitoring will occur on Ebright Creek from May - September 2018.
1.4	<p>Outreach &amp; Education:</p> <p>a. Host volunteer planting and education events focused on involving Tribal Members, local schools, citizens, community groups, and partners</p>	3/31/18	CURRENT	A min. 100 adult and youth volunteer participants will contribute 350 hrs. helping to plant & maintain project	Two separate volunteer planting events were held on Ebright Creek on 10/28/17 and 11/18/17 in partnership with Mid-Sound Fisheries Enhancement Group and Trout Unlimited. A total of 83 adult and youth volunteers contributed 332 hrs. to help plant over 2,300 native trees and shrubs and place/spread 50 cubic yards of coarse wood mulch.

**23a. Subaward Work Plan Component/Task:** Sammamish River Corridor Habitat Enhancement - Reach 4

**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	<p>Project Management:</p> <p>a. Contract w/qualified fisheries habitat engineer to complete survey and design for off-channel wetland enhancement and wood (LWD) structure placement</p>	3/31/18	BEHIND SCHEDULE	2 designs/plans produced; Environmental permit approval; Reports submitted; Staff/crew informed, trained	After additional discussion and site visits with staff from three different divisions of King County, the riparian planting plan was revised and re-submitted to King County Rivers Division and the Corps for final approval. A cultural resource survey will be

	<p>b. Complete planting plan for river bank and wetland riparian buffer areas</p> <p>c. Prepare and submit plans and designs to King County DNRP (landowner) and Corps for review and approval</p> <p>d. Submit streamlined JARPA along with Fish Habitat Enhancement Exemption to WDFW, Corps, King County, WA DOE for review and approval</p> <p>e. Notify King County Parks prior to planned restoration activities and volunteer events.</p> <p>f. Hold monthly staff meetings to discuss and manage project</p> <p>g. Prepare and submit semi-annual and final grant reports to NWIFC</p>				<p>completed by King County Parks by early summer. Permission has been given to proceed with noxious weed removal and control work. Planting and digging will not be able to occur until Cultural Resources review is completed.</p>
2.2	<p>Riparian &amp; Aquatic Restoration:</p> <p>a. Remove reed canary grass mat from small pocket wetland, shape and regrade soils to create varying topographic and habitat features</p> <p>b. Place habitat structure, anchor large and small woody debris in the wetland and along the main channel edge to provide cover for salmonids and other wildlife</p> <p>c. Amend soil conditions in existing upper bank planting area around pocket wetland and increase native tree and shrub planting density</p> <p>d. Plant a variety of native herbaceous wetland species (sedges, rushes)</p> <p>e. Plant a variety of native tree and shrub species upstream and downstream along right bank (Buffer widths will range from 25' to 100', see FY 14 workplan)</p>	3/31/18	CURRENT	<p>Min.10 pieces of LWD placed; Min. 7,500 native trees, shrubs and groundcover species installed and 5 acres of riparian buffer created</p>	<p>After further consideration we have decided not to implement the off channel enhancement and wood structure placement element of the project. The main reasons are multiple delays in coordination and planning with King County; and also re-evaluating the cost benefit considering the smaller scale of the work area and lengthy review/permit process that would ensue. Riparian restoration plans are finally moving forward with the focus on implementing site planting in fall and early winter 2018.</p>

**23a. Subaward Work Plan Component/Task:** Snoqualmie Headwaters Riparian & Stewardship

**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	Project Administration: a. Participate in regular project coordination meetings annually in 2017 & 2018 b. Schedule and manage contracted work crews c. Hold monthly staff meetings to discuss project d. Prepare and submit quarterly progress, reimbursement and semi-annual FEATS reports	3/31/18	CURRENT	At least 6 project meetings attended; Reports submitted to King County, Ecology and NWIFC; Staff/crew informed and trained	Project coordination with King County and other partners/stakeholders continues. Reports prepared and submitted to NWIFC and King County Noxious Weeds. Coordinated and managed WCC and King County Community Work Program Crews to assist with site weed control and planting efforts. .
2.2	Regional Collaboration: a. Participation in regional meetings annually b. Provide annual presentations to regional working groups c. Conduct project tours for interested stakeholders d. Provide assistance to other watershed groups that wish to initiate a similar project or program	3/31/18	CURRENT	2 regional collaboration meetings attended; 2 presentations given to regional working groups; At least 1 project tour of at least 4 different riparian restoration sites.	Staff attended local upper Snoqualmie Cooperative Weed Management Area meeting hosted by King County. Also plan to attend Puget Sound Knotweed Forum Mtg. in April.
2.3	Survey & Mapping: a. Assess ongoing knotweed treatment locations in the upper Snoqualmie Basin to determine priorities for riparian restoration b. Map restoration sites and planting areas using GPS, GIS and photo documentation c. Collect baseline site characterization information to determine spatial extent of area, disturbance regime, soils, hydrology, wildlife use, existing vegetation communities	3/31/18	CURRENT	Baseline textual and tabular site attribute data collected, documented and mapped	a. Ongoing coordination with King County Noxious Weeds to update status on active riparian restoration sites. b. Survey and mapping of noxious weed infestations, planting sites and areas is ongoing.



2.4	<p>Outreach &amp; Education:</p> <ul style="list-style-type: none"> <li>a. Produce annual schedule of outreach, education, volunteer events and activities</li> <li>b. Contact and inform landowners within project area about restoration opportunities</li> <li>c. Send out project informational mailer to landowners inviting them to participate in volunteer events and activities</li> <li>d. Obtain signed permission waivers to perform riparian restoration from landowners</li> <li>e. Participate in community workshops to train landowners about long term stewardship skills</li> <li>f. Participate in community events with KCNWP staff hosting booths, tables and/or giving presentations about the project</li> <li>g. Conduct three volunteer planting events per year during planting season from October - March</li> </ul>	3/31/18	CURRENT	<p>2 annual planning schedules created; Public and private streamside landowners contacted, informed &amp; trained; 500 information fliers mailed out to private streamside property owners; Landowner permission waivers obtained; Participate in 3 community workshops; Take part in 6 community events; Complete at least 6 volunteer planting events</p>	<p>In partnership with King County Parks, 2 volunteer planting events were held on 10/28/17 and 01/27/18 at two separate sites located on the Three Fork Natural Area. An additional planting event was held in partnership with the City of Snoqualmie on 2/24/18 at another public site, which is also part of the Three Forks Natural Area. Thus far, 5 volunteer events have been held with 166 volunteers contributing 722 hours to help with riparian planting efforts.</p>
2.5	<p>Riparian Restoration:</p> <ul style="list-style-type: none"> <li>a. Compile landowner riparian restoration tool box, make available for public use and distribute tool box as requested.</li> <li>b. Develop and execute signed landowner agreements to conduct riparian planting</li> <li>c. Develop site planting designs and plans</li> <li>d. Complete seven riparian restoration sites annually</li> <li>e. Plant suitable native tree, shrub and groundcover species using nursery grown 1&amp;2 gallon container stock, bare root and live stake plant material produced from local seed sources (Will plant maximum buffer widths possible depending on sites, land use and constraints)</li> </ul>	3/31/18	CURRENT	<p>1 riparian restoration tool box created; 14 planting plans and landowner agreements completed; 14 riparian sites revegetated; At least 6,000 container plants, 1,250 live stake cuttings and 1,000 bare root trees planted covering a minimum of 5 acres; Maintain sites 1-2 times annually over 2 years</p>	<ul style="list-style-type: none"> <li>a. Completed final version of landowner riparian restoration toolbox brochure.</li> <li>b. Currently working with 2 public and 5 private landowners at 12 different sites.</li> <li>c. Planting plans have been created for 7 sites thus far.</li> <li>e. Thus far, nearly 7,000 native trees and shrubs have been planted along 3,250 linear ft. of shoreline totaling 11 acres at 5 separate sites.</li> <li>f. Site maintenance completed thus far has been installation of anti-browse plant protection. Weed control maintenance will occur during spring/summer.</li> </ul>

	f. Complete regular maintenance of planting sites to ensure plant survival rates. Maintenance will include: weed control, browse protection, mulching and plant replacement				
2.6	<p>Monitoring &amp; Evaluation :</p> <p>a. a. Set-up baseline, transect and photo points to conduct annual vegetation monitoring for at least two years</p> <p>b. Create and submit QAPP for Veg Monitoring</p> <p>c. Perform vegetation monitoring annually from June to August.</p> <p>d. Collect and summarize data to measure project status and success for noxious weed control, riparian plantings and community engagement</p>	3/31/18	CURRENT	# of volunteers, partners and stakeholders involved in project; # of workshops, events and trainings held and # of participants; # of plants and types of species planted; Plant survival rate 80% or > after year 2; Noxious weed species cover 10% or < after year 2	<p>a. Monitoring points and areas will be established during summer 2018.</p> <p>b. Received approved Vegetation Monitoring QAPP from EPA, which was developed to cover all the Tribe's riparian sites in the Snoqualmie and Sammamish Watersheds.</p> <p>c &amp; d. Still determining level of vegetation monitoring efforts taking into consideration number of projects and scale of sites as factors. Some sites may receive less intensive monitoring efforts but all sites will be observed over time.</p>

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

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

**HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS**

*25.
------

