

UPPER FEATHER RIVER IRWM

PROJECT INFORMATION FORM

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

Agency / Organization	Maidu Summit Consortium
Name of Primary Contact	Kenneth Holbrook, ED (soon: Mary Adelzadeh)
Name of Secondary Contact	Lorena Gorbet
Mailing Address	P.O. Box 682, Chester, CA 96020
E-mail	director@maidusummit.org (mary@brbna.org)
Phone	530-258-2299
Other Cooperating Agencies /	
Organizations / Stakeholders	
Is your agency/organization	Yes
committed to the project through	
completion? If not, please explain	

II. GENERAL PROJECT INFORMATION

Project Title	TAC-3: Mud Creek Habitat Recovery				
Project Category	☐ Agricultural Land Stewardship				
	☐ Floodplains/Meadows/Waterbodies				
	☐ Municipal Services				
	☐ Uplands/Forest				
Project Description	The site at Mud Creek is an important habitat for a wide				
(Briefly describe the project,	variety of edible and medicinal plant species for the Maidu				
in 300 words or less)	people. It is currently grossly undermanaged and the Maidu				
	Summit wishes to restore and improve this site using Maidu				
	Traditional ecological Knowledge (TEK). Our disadvantaged				
	community lacks sources for traditional food gathering. The				
	Maidu Summit will be granted ownership of this area by PG&E				
	within the next two years along with a comprehensive				
	vegetation management program, critical to long-term				
	recovery of the stressed species found there. Components of				
	the program include: 1) General wetland cleanup and hand				
	treatment of dead and dying woody materials; 2) Willow				
	treatment, coppicing and debris removal; 3) Understory				
	management and thinning; 4) Plant population studies, for				
	community health; 5) Water quality studies, for community				
	health; 6) Monitoring of change to growth patterns, before				
	and after; and 7) Final report of project details and outcomes.				
	Site enhancements predicted for this site include: roughly 200				

Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	acres of recovered critical habitat for special plant species that provide the Maidu People with medicine, traditional food and basketry materials. Improvements to water quality on this site and to the immediate down-stream water users (community of Chester and important bird habitat near Lake Almanor causeway). Attached is a list of the plants we would nurture giving their scientific names, Mountain Maidu names and usages. Mud Creek parcel is in Section 28, R.7E., T.29N. Mud Creek runs into Lake Almanor on the east side north of the Chester Causeway. It is on the Forest Service dirt road running from Highway 36 to Lake Chance Campground; two miles north of the highway and one mile south of the campground. There is a short side road that runs east along the north side of the creek.
Latitude:	40.335566°N
Longitude:	-121.206774°W

III. APPLICABLE IRWM PLAN OBJECTIVES ADDRESSED

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project outcomes will be quantified. If the project does not address *any* of the IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region.

	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
Restore natural hydrologic	⊠ Yes	General wetlands cleanup and	35 acres wetland
functions.		re-vegetation of wetland	springs & creek
	□ N/A	species and removal of woody	treated
		debris and garbage in the	
		wetlands.	
Reduce potential for	⊠ Yes	Hand treatment of dead and	Over full 200 acres
catastrophic wildland fires in		dying woody materials. Fuel	
the Region.	□ N/A	reduction in adjacent forest	
		areas.	
Build communication and	⊠ Yes	Work with Lake Almanor	
collaboration among water		Watershed Group, Greenville &	
resources stakeholders in the	□ N/A	Susanville Rancherias, MCDG,	
Region.		PG&E and USFS.	
Work with DWR to develop	☐ Yes		
strategies and actions for the			
management, operation, and	⊠ N/A		
control of SWP facilities in the			
Upper Feather River			

	1	TAC 5. IVIU	d Creek Habitat Recover
Upper Feather River IRWM	Will the project address the	Brief explanation of project	Quantification (e.g. acres of streams/wetlands restored or
Objectives:			
-	objective?	linkage to selected Objective	enhanced)
Watershed in order to increase			
water supply, recreational, and environmental benefits to the			
Region.			
Encourage municipal service	☐ Yes	Encourage volunteers in the	35 acres of springs,
providers to participate in	□ res	caretaking of the springs and	creek and wetlands
regional water management	⊠ N/A	creek on the property.	creek and wetlands
actions that improve water	M N/A	Municipal providers may	
supply and water quality.		volunteer on the project.	
		Unknown at this time.	
Continue to actively engage in	☐ Yes	Property borders FERC licensed	
FERC relicensing of		land and water from springs	
hydroelectric facilities in the	⊠ N/A	and creek flow into Lake	
Region.	,	Almanor. PG&E may choose to	
		partner on this project.	
		Unknown at this time.	
Address economic challenges	☐ Yes		
of municipal service providers			
to serve customers.	⊠ N/A		
Protect, restore, and enhance	⊠ Yes	Will result in improved water	200 acres treated
the quality of surface and		quality and quantity by	overall.
groundwater resources for all	□ N/A	restoring wetlands to healthy	
beneficial uses, consistent with the RWQC Basin Plan.		condition and hydrologic functions.	
Address water resources and	⊠ Yes	Improve water used to raise	
wastewater needs of DACs and	⊠ res	healthy traditional N.A. food,	
Native Americans.		medicine and basket plants.	
Coordinate management of	□ N/A	Springs, creek and wetlands	35 acres
recharge areas and protect	☐ Yes	restored to health may improve	33 dues
groundwater resources.	⊠ N/A	recharge and groundwater	
groundwater resources.	M N/A	resources. Unknown at this	
		time.	
Improve coordination of land	⊠ Yes	Caretaking plants used by	
use and water resources		Native Americans and water	
planning.	□ N/A	dependent fish and wildlife	
		species will improve	
		downstream water quality to	
		Lake Almanor, thereby	
		improving water and land	
		planning coordination.	
Maximize agricultural,	☐ Yes		
environmental and municipal			
water use efficiency.	⊠ N/A		

Upper Feather River IRWM Objectives: Effectively address climate	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
change adaptation and/or mitigation in water resources management.	⊠ N/A		
Improve efficiency and reliability of water supply and other water-related infrastructure.	□ Yes ⊠ N/A	Will result in healthier bird, animal and plant habitat in the area perhaps improving Almanor reservoir conditions. Unknown at this time.	200 acres treated in total
Enhance public awareness and understanding of water management issues and needs.	⊠ Yes □ N/A	Will educate public and agencies of traditional way to steward the land.	
Address economic challenges of agricultural producers.	□ Yes ⊠ N/A	Result in production of well managed traditional food, medicine and basket plants for family food and medicines.	
Work with counties/ communities/groups to make sure staff capacity exists for actual administration and implementation of grant funding.	⊠ Yes □ N/A	Work with Stewardship Council on the project design then with consultants to be sure we have adequate technical knowledge to complete project.	
	escribe how th	ne project relates to a challenge or	opportunity for the

IV. PROJECT IMPACTS AND BENEFITS

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do no leave a blank cell.** Note that DWR encourages multi-benefit projects.

If a	If applicable, describe benefits or impacts of the project with respect to:						
а.	Native American Tribal Communities	⊠ Yes	Healthier traditional food, medicine and basket plants used by N.A. community. Employment of N.A. crews to do the project work.				
b.	Disadvantaged Communities ¹	⊠ Yes	Will result in cleaner and healthier water into Lake Almanor to advantage of DAC communities around the lake such as Chester.				
C.	Environmental Justice ²	⊠ Yes	Improving land that will be owned by a Native American organization. Landlessness for California recognized tribes is one of the most important EJ issue for California tribes across the Sierra Nevada Region.				
d.	Drought Preparedness	⊠ Yes	Wetland rehabilitation will increase the holding of water until later in the year before release into the stream system, benefiting both the creek and downstream Lake Almanor to an unknown extent.				
e.	Assist the region in adapting to effects of climate change ³	⊠ Yes	Cleanup around the spring areas using traditional methods will increase available water in the wetland areas.				
f.	Generation or reduction of greenhouse gas emissions (e.g. green technology)	⊠ Yes	Cleanup of dead and dying woody materials will result in healthier forest areas surrounding the project.				
g.	Other expected impacts or benefits that are not already mentioned elsewhere	⊠ Yes	The project will validate Traditional Ecological Knowledge (TEK) through monitoring of growth patterns, before and after, as a valid way to caretake the land. Will educate others on the usage of TEK in coordination with conventional scientific data.				

¹ A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. DWR's DAC mapping is available on the UFR website (http://featherriver.org/maps/).

² Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities.

³ Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

DWR encourages multiple benefit projects which address one or more of the following elements (PRC §75026(a). Indicate which elements are addressed by your project.

a.	Water supply reliability, water	☐ Yes	g.	Drinking water treatment and		Yes
	conservation, water use efficiency	⊠ N/A		distribution	\boxtimes	N/A
b.	Stormwater capture, storage, clean-	☐ Yes	h.	Watershed protection and	\boxtimes	Yes
	up, treatment, management	⊠ N/A		management		N/A
c.	Removal of invasive non-native	⊠ Yes	i.	Contaminant and salt removal		Yes
	species, creation/enhancement of	□ N/A		through reclamation/desalting,	\boxtimes	N/A
	wetlands,			other treatment technologies		
	acquisition/protection/restoration			and conveyance of recycled		
	of open space and watershed lands			water for distribution to users		
d.	Non-point source pollution	⊠ Yes	j.	Planning and implementation of	\boxtimes	Yes
	reduction, management and	□ N/A		multipurpose flood		N/A
	monitoring			management programs		
e.	Groundwater recharge and	☐ Yes	k.	Ecosystem and fisheries	\boxtimes	Yes
	management projects	⊠ N/A		restoration and protection		N/A
f.	Water banking, exchange,	☐ Yes				
	reclamation, and improvement of	⊠ N/A				
	water quality					

V. RESOURCE MANAGEMENT STRATEGIES

For each resource management strategy (RMS) employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the RMS can be found in Volume 2 of the 2013 California Water Plan (http://featherriver.org/2013-california-water-plan-update/).

	Will the Project incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	☐ Yes ⊠ No	
Urban water use efficiency	☐ Yes ⊠ No	
Improve Flood Management		
Flood management	☐ Yes ⊠ No	
Improve Operational Efficiency and T	ransfers	
Conveyance – regional/local	☐ Yes ⊠ No	
System reoperation	☐ Yes ⊠ No	
Water transfers	☐ Yes ⊠ No	
Increase Water Supply		
Conjunctive management	☐ Yes ⊠ No	
Precipitation Enhancement	☐ Yes ⊠ No	
Municipal recycled water	☐ Yes ⊠ No	
Surface storage – regional/local	☐ Yes ⊠ No	
Improve Water Quality		

	Will the Project incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Drinking water treatment and distribution	☐ Yes ⊠ No	
Groundwater remediation/aquifer remediation	☐ Yes ⊠ No	
Matching water quality to water use	☐ Yes ☒ No	
Pollution prevention	☐ Yes ⊠ No	
Salt and salinity management	☐ Yes ⊠ No	
Urban storm water runoff	☐ Yes ☒ No	
management		
Practice Resource Stewardship		
Agricultural land stewardship	⊠ No	Plant studies and monitoring. Raising of traditional plants for family food and medicine needs.
Ecosystem restoration	⊠ Yes □ No	Wetlands management and TEK plant restoration
Forest management	⊠ Yes □ No	Fuel reduction and removal of dead and dying woody materials
Land use planning and management	⊠ Yes □ No	Project planning and implementation using TEK.
Recharge area protection	☐ Yes ⊠ No	ILN.
Sediment management	⊠ Yes □ No	Manage plants along creek banks to prevent erosion.
Watershed management	⊠ Yes □ No	TEK methods used on all MSC lands within the watershed.
People and Water		
Economic incentives	⊠ Yes □ No	MSC member organizations will participate and benefit from the project.
Outreach and engagement	⊠ Yes □ No	Will use MSC website and Facebook page plus educational tours to engage the public.
Water and culture	⊠ Yes □ No	Will result in protection of springs, wetlands and Native American sites within the project area.
Water-dependent recreation	☐ Yes ⊠ No	
Wastewater/NPDES	☐ Yes ⊠ No	
Other RMS addressed and explanation	on:	

VI. PROJECT COST AND FINANCING

Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as the source of the project cost in the table below.

PROJECT BUDGET							
_		¬					
Project serves a need of a DAC?: ⊠ Yes □ No							
Fur	Funding Match Waiver request?: \square Yes \boxtimes No						
			Cost Share:				
			Non-State	Cost Share:			
		Requested	Fund Source*	Other State			
		Grant	(Funding	Fund			
	Category	Amount	Match)	Source*	Total Cost		
a.	Direct Project Administration	2,000			2,000		
b.	Land Purchase/Easement						
c.	Planning/Design/Engineering	50,000			50,000		
	/ Environmental						
d.	Construction/Implementation						
e.	Environmental Compliance/	120,000			120,000		
	Mitigation/Enhancement						
f.	Construction Administration	3,000			3,000		
g.	Other Costs						
h.	Construction/Implementation	275,000	50,000		325,000		
	Contingency						
i.	Grand Total (Sum rows (a) through	450,000	50,000	-0-	500,000		
	(h) for each column)						
j.	Can the Project be phased? ☐ Yes	□ No If yes , p	rovide cost breakd	lown by phases			
		Project Cost	O&M Cost	Description of Phase			
	Phase 1	50,000		Planning			
	Phase 2	125,000		Studies, Enviro			
	Phase 3	325,000		Implementation			
	Phase 4		50,000	Monitoring/edu			
k.	Explain how operation and maintenan			lu Summit Conso			
	financed for the 20-year planning peri-	od for project		d set up from Ste	•		
	implementation (not grant funded).		Council monies t	hat come with th	e land deed for		
			this purpose.				
I.	Has a Cost/Benefit analysis been comp		X No				
m.	Describe what impact there may be if	the project is	Land, plants, wat		a would remain		
	not funded (300 words or less) untreated and unhealthy.						
	t all sources of funding.	1005					
	Note: See Project Development Manual, Exhibit B, for assistance in completing this table						
(http://featherriver.org/documents/).							

VIII. PROJECT STATUS AND SCHEDULE

Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown, enter **TBD**.

	Check the Current Project		Description of Activities in Each	Planned/ Actual Start	Planned/ Actual Completion
Project Stage	Stage	Completed?	Project Stage	Date (mm/yr)	Date (mm/yr)
a. Assessment and Evaluation	×	☐ Yes ⊠ No □ N/A	Studies of current conditions of plants & water. Conceptual stage	July 2015	Sept. 2015
b. Final Design		☐ Yes☒ No☐ N/A	Planning, final cost projection and schedule of work	Sept. 2015	Oct. 2015
c. Environmental Documentation (CEQA / NEPA)		☐ Yes☒ No☐ N/A	Required Documentation Completed	Oct. 2015	Jan. 2016
d. Permitting		☐ Yes☐ No☑ N/A			
e. Construction Contracting		☐ Yes☒ No☐ N/A	Bids by RFP; contracts awarded	Feb. 2016	Mar. 2016
f. Construction Implementation		☐ Yes ⊠ No □ N/A	Cleanup & debris removal Forest Treatment Final studies/monitoring Education components	April 2016 May 2016 July 2016 Sept. 2016	June 2016 Sept. 2016 On going On going
Provide explanation stage is checked as c					

IX. PROJECT TECHNICAL FEASIBILITY

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project. See www.featherriver.org/catalog/index.php for documents gathered on the UFR Region.

a.	List the adopted planning documents the proposed	-ABWAC Land Management Plan
	project is consistent with or supported by (e.g. General	-Integrated Regional Water
	Plans, UWMPs, GWMPs, Water Master Plan, Habitat	Management Plan: Upper Feather River
	Conservation Plans, TMDLs, Basin Plans, etc.).	Watershed, California
		-Lassen National Forest Land and
		Resource Management Plan
		-Pacific Forest and Watershed Lands
		Stewardship Council Land Conservation
		Plan

b. List technical reports and studies supporting the feasibility of this project.

-Exploring the Role of Traditional Ecological Knowledge in Climate Change Initiatives (USDA)
-Traditional Ecological Knowledge (TEK) Resources (CA LCC)
-California Dept. of Finance
Demographic Reports
-Last Chance Creek Fish Data Summary
-Natural Infrastructure; Investing in Forested Landscapes for Source Water

Protection

2005-2013

 c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.

the Pacific Forest and Watershed Lands Stewardship Council in 2003-2004. Public meetings were held for input from the public to be included in their land conservation plan. The Maidu Summit Group studied this parcel in 2007 and included it in their Land Management Proposal submitted to the Stewardship Council in 2007. They again studied what needed to be done to the land in 2010 and it was included in a land management proposal submitted in 2010 by the Maidu Summit Consortium. This parcel was again considered in 2014 and plans for the future of the parcel were submitted to the Stewardship Council. In January 2015 the Stewardship Council voted to award this parcel of land to the Maidu Summit Consortium. The Maidu Summit expects to receive the final deed to the property within 18-24 months from then.

-Stewardship Council Annual Reports

This parcel of land was first looked at by

Caretaking of the land will be by using TEK methods as much as possible. We realize that the climate and world has changed within the last 150 years and some more modern methods will be incorporated into the more traditional methods. TEK involves a relationship with all the plants, animals and elements of the land and how the Maidu interact with them. It involves talking to the land and listening to the land as to what it needs and wants. Methods include the use of hand tools