

UPPER FEATHER RIVER IRWM

PROJECT INFORMATION FORM

Please submit by 5:00 p.m. on August 3, 2015, to UFR.contact@gmail.com

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

Agency / Organization	Plumas County Department of Public Works – Engineering
Name of Primary Contact	Robert A. Perreault , Jr., Director of Public works
Name of Secondary Contact	Robert Thorman, Engineering Technician II
Mailing Address	1834 East Main Street, Quincy, CA 95971
E-mail	bobperreault@countyofplumas.com
Phone	(530) 283-6222
Other Cooperating Agencies /	NA
Organizations / Stakeholders	
Is your agency/organization	Yes
committed to the project through	
completion? If not, please explain	

II. GENERAL PROJECT INFORMATION

Project Title	MS-25:Humbug Valley Road 307 Culvert Improvements
Project Category	☐ Agricultural Land Stewardship
	☐ Floodplains/Meadows/Waterbodies
	☐ Tribal Advisory Committee
	☐ Uplands/Forest
Project Description	Seasonal flooding of Road 307 at three locations are in need of
(Briefly describe the project,	new culverts to improve water flow, raising the road to
in 300 words or less)	eliminate flooding, and armoring the roadside ditches to
	prevent polluting adjacent lands and reduce ditch turbidity
	flowing to streams.
Project Location Description (e.g.,	Humbug Road 307 at mile marker 3.9, 5.1, and 6.8-6.9
along the south bank of stream/river	
between river miles or miles from	
Towns/intersection and/or address):	
Latitude:	40 degrees 8' N
Longitude:	121 degrees 15' 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	-	
functions.			
	⊠ N/A		
Reduce potential for	☐ Yes		
catastrophic wildland fires in			
the Region.	⊠ N/A		
Build communication and	☐ Yes		
collaboration among water			
resources stakeholders in the	⊠ N/A		
Region.	•		
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			
Watershed in order to increase			
water supply, recreational, and			
environmental benefits to the			
Region.			
Encourage municipal service	☐ Yes		
providers to participate in			
regional water management	⊠ N/A		
actions that improve water			
supply and water quality.			
Continue to actively engage in	☐ Yes		
FERC relicensing of			
hydroelectric facilities in the	⊠ N/A		
Region.			
Address economic challenges	☐ Yes		
of municipal service providers			
to serve customers.	⊠ N/A		
Protect, restore, and enhance	⊠ Yes	Reduced pollution entering the	Reduces turbidity
the quality of surface and	_	surrounding lands by	from drainage
groundwater resources for all	□ N/A	eliminating the roadway	ditch leading to
beneficial uses, consistent with		flooding and reduce turbidity	streams.
the RWQC Basin Plan.		from drainage ditches leading	
		to streams.	

	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)
Address water resources and	☐ Yes		
wastewater needs of DACs and			
Native Americans.	⊠ N/A		
Coordinate management of	☐ Yes		
recharge areas and protect			
groundwater resources.	⊠ N/A		
Improve coordination of land use and water resources	☐ Yes		
planning.	⊠ N/A		
Maximize agricultural,	☐ Yes		
environmental and municipal			
water use efficiency.	⊠ N/A		
Effectively address climate	☐ Yes		
change adaptation and/or			
mitigation in water resources	⊠ N/A		
management.	,		
Improve efficiency and	☐ Yes		
reliability of water supply and			
other water-related	⊠ N/A		
infrastructure.			
Enhance public awareness and	☐ Yes		
understanding of water			
management issues and needs.	⊠ N/A		
Address economic challenges	☐ Yes		
of agricultural producers.			
	⊠ N/A		
Work with counties/	⊠ Yes	Plumas County Department of	
communities/groups to make		Public Works is committed to	
sure staff capacity exists for	□ N/A	the successful implementation	
actual administration and		of this project. We will ensure	
implementation of grant		the staff capacity exists to	
funding.		administer and implement the	
		grant project.	
If no objectives are addressed, d Region:	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	⊠ N/A				
	Disadvantaged Communities ¹	⊠ N/A				
c.	Environmental Justice ²	⊠ N/A				
d.	Drought Preparedness	⊠ N/A				
e.	Assist the region in adapting to effects of climate change ³	⊠ N/A				
f.	Generation or reduction of greenhouse gas emissions (e.g. green technology)	⊠ N/A				
g.	Other expected impacts or benefits that are not already mentioned elsewhere	□ N/A	Benefit of reduced turbidity from drainage ditch leading to streams.			
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						

³ Climate change effects are likely to include increased flooding, extended drought, and associated

(e.g. water supply, flooding, sanitation) in an area of racial minorities.

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	⊠ N/A
b.	Stormwater capture, storage, clean-	☐ Yes	h.	Watershed protection and	⊠ 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,	⊠ 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	☐ Yes
	reduction, management and	⊠ N/A		multipurpose flood	⊠ N/A
	monitoring			management programs	
e.	Groundwater recharge and	☐ Yes	k.	Ecosystem and fisheries	☐ 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		Reduced erosion of roadway and ditches
	oxtimes Yes $oxtimes$ No	results in less sediment in rivers and better
		flood management.
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	

	Will the Project			
	incorporate	Description of how RMS to be employed,		
Resource Management Strategy	RMS?	if applicable		
Improve Water Quality				
Drinking water treatment and	☐ Yes ⊠ No			
distribution				
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 management	☐ Yes ⊠ No			
Practice Resource Stewardship				
Agricultural land stewardship	☐ Yes ⊠ No			
Ecosystem restoration	☐ Yes ⊠ No			
Forest management	☐ Yes ⊠ No			
Land use planning and	☐ Yes ☒ No			
management	L res 🖾 No			
Recharge area protection	☐ Yes ⊠ No			
Sediment management	⊠ Yes □ No	Reduced sediment in ditches, creeks & rivers		
Watershed management	☐ Yes ⊠ No			
People and Water				
Economic incentives	☐ Yes ⊠ No			
Outreach and engagement	☐ Yes ⊠ No			
Water and culture	☐ Yes ⊠ No			
Water-dependent recreation	☐ Yes ⊠ No			
Wastewater/NPDES	☐ Yes ⊠ No			
Other RMS addressed and explanation:				

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					
Dre						
	oject serves a need of a DAC?: Yes I					
- i ui	Funding Match Waiver request?: Yes 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	\$20,000			\$20,000	
b.	Land Purchase/Easement					
c.	Planning/Design/Engineering / Environmental	\$40,000			\$40,000	
d.	Construction/Implementation	\$540,000			\$540,000	
e.	Environmental Compliance/ Mitigation/Enhancement	\$15,000			\$15,000	
f.	Construction Administration	\$81,000			\$81,000	
g.	Other Costs					
h.	Construction/Implementation Contingency	\$32,000			\$32,000	
i.	Grand Total (Sum rows (a) through (h) for each column)	\$728,000			\$728,000	
j.	Can the Project be phased?	⊠ No If yes , p	rovide cost breakd	own by phases		
		Project Cost	O&M Cost	Descriptio	n of Phase	
	Phase 1					
	Phase 2					
	Phase 3					
	Phase 4		5 - 1: - C - OOA	A - C - L		
k.	Explain how operation and maintenan		Funding for O&N the Plumas Coun			
	financed for the 20-year planning peri implementation (not grant funded).	od for project	budget.	ty Department o	I Public Works	
I.	Has a Cost/Benefit analysis been comp	pleted?	☐ Yes ⊠ No			
m.	Describe what impact there may be if	the project is	Continued roadw	ay erosion and v	vater turbidity	
	not funded (300 words or less)					
	t all sources of funding.	1.11.10.00				
	Note: See Project Development Manual, Exhibit B, for assistance in completing this table					
(<u>nt</u>	(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**.

Project Stage	Check the Current Project Stage	Completed?	Description of Activities in Each Project Stage	Planned/ Actual Start Date (mm/yr)	Planned/ Actual Completion Date (mm/yr)
a. Assessment and Evaluation	×	☐ Yes ☑ No ☐ N/A	3,333.33.0	Upon execution of grant agreement	1 month after funding agreement
b. Final Design		☐ Yes ⊠ No □ N/A		2 months after funding secured	4 months after funding secured
c. Environmental Documentation (CEQA / NEPA)		☐ Yes ⊠ No □ N/A		4 months after funding secured	7 months after funding secured
d. Permitting		☐ Yes ⊠ No □ N/A		7 months after funding secured	8.5 months after funding secured
e. Construction Contracting		☐ Yes ⊠ No □ N/A		8.5 months after funding secured	9 months after funding secured
f. Construction Implementation		☐ Yes ⊠ No □ N/A		9 months after funding secured	12 months after funding secured
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 project is consistent with or supported by (e.g. General	Water Quality Control Plan for the Sacramento and San Joaquin River			
	Plans, UWMPs, GWMPs, Water Master Plan, Habitat Conservation Plans, TMDLs, Basin Plans, etc.).	Basins			
b.	List technical reports and studies supporting the feasibility of this project.	NA			
c.	Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.	For the benefit of aquatic species and habitat, sediment loads (TSS, turbidity, etc.) in streams and rivers are regulated by the Water Quality Control Plan for the Sacramento and San Joaquin River Basins (Basin Plan) and by established TMDLs. This project will reduce sediment inputs to local waterways in support of compliance with the Basin Plan and established TMDLs.			
d.	Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.).	☐ Yes ☒ No ☐ N/A If yes, please describe.			
e.	Are you an Urban Water Supplier ¹ ?	☐ Yes ☒ No ☐ N/A			
f.	Are you are an Agricultural Water Supplier ² ?	☐ Yes ☒ No ☐ N/A			
g.	Is the project related to groundwater?	☐ Yes ☒ No ☐ N/A If yes, please indicate which groundwater basin.			
3,0 ² A	¹ Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. ² Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.				

Climate Change – Project Assessment Checklist

This climate change project assessment tool allows project applicants and the planning team to assess project consistency with Proposition 84 plan standards and RWMG plan assessment standards. The tool is a written checklist that asks GHG emissions and adaptation/resiliency questions.

Name of project: MS-25: Humbug Valley Road 307 Culvert Improvements

Project applicant: Plumas County Department of Public Works- Engineering

GHG Emissions Assessment

Project Construction Emissions If you check any of the boxes, please see the attached worksheet)	
 The project requires nonroad or off-road engines, equipment, or vehicles to complete. The project requires materials to be transported to the project site. The project requires workers to commute to the project site. The project is expected to generate GHG emissions for other reasons. The project does not have a construction phase and/or is not expected to generate GHG emission during the construction phase. 	าร
Operating Emissions If you check any of the boxes, please see the attached worksheet)	
The project requires energy to operate.	
The project will generate electricity.	
The project will proactively manage forests to reduce wildfire risk.	
The project will affect wetland acreage.	
The project will include new trees.	
Project operations are expected to generate or reduce GHG emissions for other reasons.	

Adaptation & Resiliency Assessment

Water Supply
Describe how the project makes the watershed (more/less) resilient to one or more of the following
high priority water supply vulnerability issues:
Not applicable ■ Not applicable Not applicable
Reduced snowmelt
Unmet local water needs (drought)
☐ Increased invasive species
Water Demand
Describe how the project makes the watershed (more/less) resilient to one or more of the following
high priority water demand vulnerability issues:
Not applicable ■ Not applicable Not applicable
☐ Increasing seasonal water use variability
Unmet in-stream flow requirements
Climate-sensitive crops
Groundwater drought resiliency
Water curtailment effectiveness

high priority water quality vulnerability issues: Not applicable Increasing catastrophic wildfires
Increasing catastrophic wildfires
 Eutrophication (excessive nutrient pollution in a waterbody, often followed by algae blooms and other related water quality issues)
Seasonal low flows and limited abilities for waterbodies to assimilate pollution
Water treatment facility operations
Unmet beneficial uses (municipal and domestic water supply, water contact recreation, cold freshwater habitat, spawning habitat, wildlife habitat, etc.)
Flooding
Describe how the project makes the watershed (more/less) resilient to one or more of the following
Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues:
high priority flooding vulnerability issues:
high priority flooding vulnerability issues: Not applicable
high priority flooding vulnerability issues: Not applicable Aging critical flood protection
high priority flooding vulnerability issues: Not applicable Aging critical flood protection Wildfires
high priority flooding vulnerability issues: Not applicable Aging critical flood protection Wildfires Critical infrastructure in a floodplain
high priority flooding vulnerability issues: Not applicable Aging critical flood protection Wildfires Critical infrastructure in a floodplain Insufficient flood control facilities
high priority flooding vulnerability issues: Not applicable Aging critical flood protection Wildfires Critical infrastructure in a floodplain Insufficient flood control facilities
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high priority flooding vulnerability issues: Not applicable Aging critical flood protection Wildfires Critical infrastructure in a floodplain Insufficient flood control facilities

Water Quality

Describe how the project makes the watershed (more/less) resilient to one or more of the following
high priority ecosystem and habitat vulnerability issues:
☐ Not applicable
Climate-sensitive fauna or flora
Recreation and economic activity
Quantified environmental flow requirements
Erosion and sedimentation
Endangered or threatened species
Fragmented habitat
The project when completed will reduce the erosion and sedimentation in roadside ditch that flows to
creeks.
Hydropower
Describe how the project makes the watershed (more/less) resilient to one or more of the following
high priority hydropower vulnerability issues:
⊠ Not applicable
Reduced hydropower output

Upper Feather River IRWMP Project Assessment - GHG Emissions Analysis

MS-25 Humbug Valley Road 307 Culvert Improvements

GHG Emissions Analysis

Project Construction Emissions

The project requires non-road or off-road engines, equipment, or vehicles to complete. If yes:

	Maximum		
	Number Per	Total 8-Hour Days in	
Type of Equipment	Day	Operation	Total MTCO₂e
Scrapers	1	1	1
Tractors/Loaders/Bac			
khoes	1	1	0
Dumpers/Tenders	1	3	0
Off-Highway Trucks	1	3	4
Pavers	1	2	1
Rollers	1	2	0
			0
			0
			0
			0
_		Total Emissions	6

Χ	The project requires materials to be transported to the project site. If	yes:
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		' '	
	Average Trip		
Total Number of	Distance		
Round Trips	(Miles)	Total MTCO₂e	
5	30		0

The project requires workers to commute to the project site. If yes:

		Average Round Trip		1
Average Number	Total Number	Distance Traveled		
of Workers	of Workdays	(Miles)	Total MTCO₂e	
10	2	60	()

The project is expected to generate GHG emissions for other reasons. If yes, explain:				
				

The project does not have a construction phase and/or is not expected to generate GHG emissions during the
construction phase.

MS-25 Humbug Valley Road 307 Culvert Improvements

Project Operating Emissions

The project requires energy to operate. If yes:

Annual Energy Needed	Unit	Total MTCO₂e
	kWh (Electricity)	0
	Therm (Natural Gas)	0

Upper Feather River IRWMP Project Assessment - GHG Emissions Analysis

The project	t will generate electricity. If yes:		
	Annual kWh Generated	Total MTCO₂e	
		0	
	*A negative value indicates GHG re	ductions	
The project	t will proactively manage forests to	reduce wildfire rick If yes:	
The project	Acres Protected from Wildfire	Total MTCO ₂ e	
		0	
	*A negative value indicates GHG re	ductions	
The projec	t will affect wetland acreage. If yes:		
	Acres of Protected Wetlands	Total MTCO₂e	
	*A receptive value in disease CHC re	ductions	
	*A negative value indicates GHG re	ductions	
The project	t will include new trees. If yes:		
<u> </u>	Acres of Trees Planted	Total MTCO ₂ e	
	(
	*A negative value indicates GHG re	ductions	
Project op explain:	erations are expected to generate o	r reduce GHG emissions for other re	easons. If yes,
GHG Emiss	sions Summary		
	on and development will generate a	approximately:	7 MTCO₂e
In a given	year, operation of the project will re	esult in:	0 MTCO₂e