

# **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	FRCCSD- Old Mill Ranch			
Name of Primary Contact	Rick Reynolds			
Name of Secondary Contact	Jeffery Wilson			
Mailing Address	P.O. Box 141 Twain Ca. 95984			
E-mail	Reynrick1@comcast.net tobinriverotter@aol.com			
Phone	530 592-5446 530 283-2906			
Other Cooperating Agencies /	Cal Rural Water Association/ NV5 Engineering/ Old Mill Ranch			
Organizations / Stakeholders	Home Owners Association/ Plumas County Planning			
	Department/ Plumas County Department of Environmental			
	Health/ Plumas County Supervisor Goss			
Is your agency/organization	Yes			
committed to the project through				
completion? If not, please explain				

#### II. GENERAL PROJECT INFORMATION

Project Title	MS-6: Old Mill Ranch		
Project Category	☐ Agricultural Land Stewardship		
	☐ Floodplains/Meadows/Waterbodies		
	Municipal Services		
	☐ Tribal Advisory Committee		
	☐ Uplands/Forest		
Project Description (Briefly describe the project, in 300 words or less)	Provide a new and sustainable water source that may include primary and back-up wells or surface/spring water source. Included as needed would be water filtration and pipe replacement for small community of 29 existing service connections. The water in the system has high levels of manganese and iron bacteria exceeding secondary drinking water standards. Currently the water is testing for high levels of arsenic that exceed safe drinking water standards. The current practice is purge to waste to bring the arsenic levels back down. The water is currently undrinkable due to extreme odor, red color staining, and taste. The steel pipe was installed in		

Longitude:	121 00′ 00′ W
Latitude:	40 00' 00' N
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	Located in community of Old Mill Ranch located on the northwest side of the Feather River. Exact location of improvements to be determined.
	the 1960's and is wrapped in tarpaper, the pipe is corroded on the inside and is a prime element in allowing iron bacteria growth within the system. There is currently no back-up system or secondary well in place if there is a system failure.  This project will include a Hydrogeologic Study, Specification drawings, cost estimates, well testing and analysis, construction easements, well site purchase options, alternatives including surface or spring source. Construction costs will consist of well drilling and installation or surface water installation, a small building for water works and filtration, and trenching and installing new pipe. There will be an initial planning phase and then a construction phase. The planning phase will compare construction, operation and maintenance costs of the alternatives.

#### 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	The Feather River Canyon has a	
functions.		history of wells being	
	⊠ N/A	contaminated with iron	
	·	bacteria and arsenic. It is	
		hoped through careful analysis	
		this can be mitigated for this	
		project.	

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	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)
Reduce potential for	☐ Yes	Wildland fires are an ongoing	·
catastrophic wildland fires in		concern however this project	
the Region.	⊠ N/A	will not be able to address this	
the Region.	□ N/A	issue.	
Build communication and	⊠ Yes	Yes- We are part of the overall	
	⊠ 1es	•	
collaboration among water		planning related to the IRWM.	
resources stakeholders in the	□ NA	This project will ensure that a	
Region.		community continues to have	
		clean, safe and reliable drinking	
		water source.	
Work with DWR to develop	☐ Yes	N/A- This project will not have	
strategies and actions for the		any impact on facilities or water	
management, operation, and	⊠ N/A	management on the larger	
control of SWP facilities in the	•	scale. It will address the issue	
Upper Feather River		of isolated communities on the	
Watershed in order to increase		Feather River.	
water supply, recreational, and			
environmental benefits to the			
Region.			
	N	Vac as most of the CCD we will	
Encourage municipal service	⊠ Yes	Yes as part of the CSD we will	
providers to participate in		participate in regional water	
regional water management	□ N/A	management to reduce the	
actions that improve water		drought impact by education	
supply and water quality.		and reduction of water use	
		within our community.	
Continue to actively engage in	☐ Yes	N/A We are not involved in this	
FERC relicensing of		activity due to the fact we are	
hydroelectric facilities in the	⊠ N/A	an isolated community without	
Region.		contact with FERC.	
Address economic challenges	⊠ Yes	Yes as an isolated DAC	
of municipal service providers		community we have limited	
to serve customers.	□ N/A	access to project funding. Due	
to serve customers.	□ N/A	to our very small size we have	
		•	
		difficulty being a priority	
		related to funding. We are not	
		customers of municipal	
		services.	
Protect, restore, and enhance	⊠ Yes	Yes- through careful hydrologic	
the quality of surface and		studies and planning the most	
groundwater resources for all	□ N/A	suitable water source would be	
beneficial uses, consistent with		determined. The new water	

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	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)
the RWQC Basin Plan.		source would provide direct	
		benefit to the community	
		through enhanced quality and	
		sustainability.	
Address water resources and	⊠ Yes	Yes- OMR is located in a DAC	
wastewater needs of DACs and		designated area. It is also a	
Native Americans.	□ N/A	very small number of	
	,,	households. Without financial	
		assistance this community	
		would likely not be able to	
		address the severe water	
		quality and distribution	
		problems that exist.	
Coordinate management of	⊠ Yes	Yes- Currently there are several	
recharge areas and protect		options under consideration,	
groundwater resources.	□ N/A	that include a possible surface	
8		water or ground water solution.	
		Whichever option is decided,	
		there will be ongoing	
		monitoring by a licensed	
		technician.	
Improve coordination of land	☐ Yes	N/A	
use and water resources			
planning.	⊠ N/A		
Maximize agricultural,	⊠ Yes	Yes- It is understood that	
environmental and municipal		meters will be installed in order	
water use efficiency.	□ N/A	to address misuse and	
water use efficiency.		mismanagement of water.	
Effectively address climate	⊠ Yes	This project will improve water	
change adaptation and/or	□ □ 1€3	use efficiencies.	
mitigation in water resources	□ N/A	ase efficiencies.	
management.			
Improve efficiency and	⊠ Yes	Yes- Currently the water supply	
reliability of water supply and	∟ IC3	is in jeopardy of total collapse.	
other water-related	□ N/A	There is no back-up system,	
infrastructure.	L IN/A	infrastructure pipes are over 50	
astractare.		years old and current water is	
		contaminated and a health risk	
		to the recipients.	
Enhance public awareness and	⊠ Yes	Yes, this is already being done	
understanding of water	∠ 1C3	through the Home Owners	
management issues and needs.	□ N1/A	Association and our local CSD.	
management issues and needs.	□ N/A	This however is a local effort.	
		inis nowever is a local elloit.	
	l .	<u> </u>	

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	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 economic challenges	☐ Yes	This is not related to any	
of agricultural producers.		agriculture producers.	
	⊠ N/A		
Work with counties/	⊠ Yes	Yes- The CSD is working in a	
communities/groups to make		collaborative manner that	
sure staff capacity exists for	□ N/A	includes Cal Rural Water for	
actual administration and		technical support and	
implementation of grant		application for funding, NV5	
funding.		Engineering for planning and	
		system implementation.	
		Plumas County Planning and	
		Environmental Health for	
		support, review and	
		implementation. WRCE-	
		Division of Drinking Water for	
		funding support, review and	
		implementation.	

If no objectives are addressed, describe how the project relates to a challenge or opportunity for the Region:	

## 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 appli	If applicable, describe benefits or impacts of the project with respect to:			
a. Na	ative American Tribal Communities		N/A- Historic and cultural issues would	
		⊠ N/A	be addressed if there is an impact due to	
			construction of any project.	
b. Di	isadvantaged Communities <sup>1</sup>		Yes- This project is located in a DAC	
		□ N/A	zone. Funding will ensure that an	
			existing viable community remains intact	
			within the Feather River Canyon. Clean	
			drinking water and	
c. Er	nvironmental Justice <sup>2</sup>			
		□ N/A	FRCCSD ensures fair and equal services	

			regardless of race, culture, income, or	
			any other cultural factors.	
d.	Drought Preparedness		,	
u.	Drought repurcuness		Was Education than about	
		□ N/A	Yes- Education through the	
			Homeowners Association and the local	
			CSD.	
e.	Assist the region in adapting to effects of		The Homeowners Association and CSD	
C.				
	climate change <sup>3</sup>	□ N/A	would work with any County or State	
			Agency as needed to address this issue	
			as it affects our community.	
			as it arrests our community.	
			0 1 1 1 1 1 1	
f.	Generation or reduction of greenhouse		Currently there is no know effect of	
	gas emissions (e.g. green technology)	⊠ N/A	greenhouse gas as a result of this	
			project.	
			p. 9,000.	
g.	Other expected impacts or benefits that			
	are not already mentioned elsewhere	⊠ N/A		
	- -			
<sup>1</sup> A I	<sup>1</sup> A Disadvantaged Community is defined as a community with an annual median household (MHI)			
,,,,	A Disdavantaged community is defined as a community with an annual median nodseriora (with)			

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			distribution	
b.	Stormwater capture, storage, clean-	☐ Yes	h.	Watershed protection and	
	up, treatment, management	⊠ N/A		management	⊠ N/A
c.	Removal of invasive non-native	☐ Yes	i.	Contaminant and salt removal	
	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	
	reduction, management and	$\boxtimes$		multipurpose flood	⊠ N/A
	monitoring			management programs	
e.	Groundwater recharge and	⊠ Yes	k.	Ecosystem and fisheries	$\boxtimes$
	management projects	□ No		restoration and protection	□ N/A
f.	Water banking, exchange,				
	reclamation, and improvement of	⊠ N/A			
	water quality				

<sup>&</sup>lt;sup>1</sup> 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/).

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

#### 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 (<a href="http://featherriver.org/2013-california-water-plan-update/">http://featherriver.org/2013-california-water-plan-update/</a>).

	Will the Project	
	incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Reduce Water Demand	ı	
Agricultural Water Use Efficiency	☐ Yes ⊠ No	No agriculture water use.
Urban water use efficiency	⊠ Yes □ No	While not technically an Urban area we will have much greater efficiency of water use do to a lack of need to flush or purge to waste the system.  New water meters will accurately report individual water usage. This will improve water use efficiency management. Water system users will how best to control use in normal times and in drought times when rationing is in effect.
Improve Flood Management		
Flood management	☐ Yes ⊠ No	
Improve Operational Efficiency and T	ransfers	
Conveyance – regional/local		Improve conveyance of water from locally
	⊠ Yes □ No	developed sources to the end users located
		within the same watershed.
System reoperation		Improvement of operations and
	⊠ Yes □ No	management procedures of water facilities
_		to meet needs more efficiently and reliably.
Water transfers	☐ Yes ⊠ No	
Increase Water Supply	Ī	
Conjunctive management		This will be a consideration in the planning
	⊠ Yes □ No	process due to the fact that the area
		contains a good surface water source and
		possible spring source.
Precipitation Enhancement	☐ Yes ⊠ No	
Municipal recycled water	☐ Yes ⊠ No	
Surface storage – regional/local	☐ Yes ⊠ No	
Improve Water Quality		
Drinking water treatment and	⊠ Yes □ No	Yes- Infrastructure would be put in place to
distribution	2 .63 2 .10	filter and provide distribution.
Groundwater remediation/aquifer	☐ Yes ⊠ No	
remediation		
Matching water quality to water		This plan may include the possibility of using
use	⊠ Yes □ No	the existing old redwood water tank and
	ĺ	pipes for fire suppression and irrigation.

	Will the Project	
	incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Pollution prevention		Replace damaged pipes that allow bacteria and other contaminants into the water
	⊠ Yes □ No	conveyance system. Eliminate flushing of
		contaminated water into surface water
		waterways.
Salt and salinity management	☐ Yes ⊠ No	
Urban storm water runoff	☐ Yes ⊠ No	
management		
Practice Resource Stewardship		
Agricultural land stewardship	☐ Yes ⊠ No	
Ecosystem restoration	☐ Yes ⊠ No	
Forest management	☐ Yes ⊠ No	
Land use planning and		All need permits and historical review prior
management	⊠Yes □ No	to any construction will be addressed. This will occur for the period of construction
		only.
Recharge area protection	☐ Yes ⊠ No	Offity.
Sediment management	☐ Yes ☒ No	
Watershed management	☐ Yes ☒ No	
People and Water		
Economic incentives	⊠ Yes □ No	This will ensure the community stays intact.
Outreach and engagement		Through the local CSD and Homeowners
	⊠ Yes □ No	Association to both the local and larger
		community as needed.
Water and culture	☐ Yes ⊠ No	
Water-dependent recreation	☐ Yes ⊠ No	
Wastewater/NPDES	☐ Yes ⊠ No	
Other DNAC addressed and analysis to		
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?: 🗵 Yes 🗆 No							
	Category	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost			
a.	Direct Project Administration	\$37,000			\$37,000			
		Phase 1			Phase 1			
b.	Land Purchase/Easement	\$30,000			\$30,000			
		Phase 1			Phase 1			
c.	Planning/Design/Engineering	\$408,000			\$408,000			
	/ Environmental	Phase 1			Phase 1			
d.	Construction/Implementation	Phase II			Phase II			
e.	Environmental Compliance/	\$25,000			\$25,000			
	Mitigation/Enhancement	Phase 1			Phase 1			
f.	Construction Administration							
g.	Other Costs							
h.	Construction/Implementation Contingency							
i.	Grand Total (Sum rows (a) through	\$500,000			\$500,000			
	(h) for each column)	Phase 1			Phase 1			
j.	Can the Project be phased? ⊠ Yes □	☐ No If <b>yes</b> , pro	ovide cost breakdo	• •				
		Project Cost	O&M Cost	Description	of Phase			
	Phase 1	\$500,000		Planning				
	Phase 2	TBD		Construction				
	Phase 3							
1.	Phase 4		6	-+:	d			
k.	Explain how operation and maintenance		Compare constru	•				
	financed for the 20-year planning period for project implementation (not grant funded).		maintenance cost and determine with the local Community Service District what if any increase					
	implementation (not grant randed).		in current charge		•			
			Currently there is					
			paid through the Tax Assessors office to cover					
			maintenance of the system.					
I.	Has a Cost/Benefit analysis been comp	leted?	☐ Yes ☒ No					
ii iius a cost, benent analysis been completed:			LIES MINO					

# m. Describe what impact there may be if the project is not funded (300 words or less) Based on a recent site visit from the Engineers from NV5 and a recent cleaning of the well, there is a good chance of total failure of the well. It recently lost 20 feet of casing due to cleaning. The well also is on the increase in iron, manganese and arsenic. It has exceeded drinking water standards on all three. There is no backup system other than the old surface water system that does not have a treatment plant. The water that is delivered to the homes is putrid and only really usable for toilets and irrigation.

We have currently submitted through the FASST program through the Drinking Water State Revolving Fund a request for funding the planning stage of \$500.00. Our pin is 31961 under FRCCSD-Old Mill Ranch.

<sup>\*</sup>List all sources of funding.

## 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**.

D. i. i. G.	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)  14 months after
a. Assessment and Evaluation	⊠	☐ Yes ⊠ No □ N/A		Hydrogeologic Study, Specifications, Drawings, and Cost Estimates for Test Well Drilling and Analysis, Construction Easements, Utility Easements, and Well Site Purchase Options, Test Well Drilling and Analysis, Alternatives Evaluation	Date of execution of funding Agreement	14 months after execution of funding Agreement
b. Final Design			Yes No N/A	Plans, Specifications and Cost Estimates	14 months after execution of funding Agreement	17 months after execution of funding Agreement
c. Environmental Documentation (CEQA / NEPA)			Yes No N/A	CEQA/NEPA Compliance	14 months after execution of funding Agreement	18 months after execution of funding Agreement
d. Permitting			Yes No N/A	TBD	Phase II	
e. Construction Contracting			Yes No N/A	TBD	Phase II	
f. Construction Implementation			Yes No N/A	TBD	Phase II	
	Provide explanation if more than one project stage is checked as current status			Phase I: Planning/Funding Phase II: Construction/Implementation		

#### 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 <a href="www.featherriver.org/catalog/index.php">www.featherriver.org/catalog/index.php</a> for documents gathered on the UFR Region.

a.	List the adopted planning documents the proposed	See enclosed- Scope of Project				
	project is consistent with or supported by (e.g. General					
	Plans, UWMPs, GWMPs, Water Master Plan, Habitat					
	Conservation Plans, TMDLs, Basin Plans, etc.).					
b.	List technical reports and studies supporting the	Phase I will provide studies and				
	feasibility of this project.	technical reports to determine the				
		feasibility of the project.				
c.	Concisely describe the scientific basis (e.g. how much	Phase I will provide the Scientific basis				
	research has been conducted) of the proposed project in	for the feasibility of the project.				
	300 words or less.					
d.	Does the project implement green technology (e.g.	☐ Yes ☐ No ☒ N/A				
	alternate forms of energy, recycled materials, LID	If yes, please describe.				
	techniques, etc.).					
e.	Are you an Urban Water Supplier <sup>1</sup> ?	☐ Yes ☒ No ☐ N/A				
f.	Are you are an Agricultural Water Supplier <sup>2</sup> ?	☐ Yes ☒ No ☐ N/A				
g.	Is the project related to groundwater?	⊠ Yes □ No □ N/A				
		If yes, please indicate which				
		groundwater basin.				
<sup>1</sup> Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing						
mı	municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than					
3,0	3,000 acre-feet of water annually.					
<sup>2</sup> A	<sup>2</sup> Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing					
	vater 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-6:-Old Mill Ranch

Project applicant: FRCCSD- Rick Reynolds

This Project is unable to answer any GHG Emissions Assessment questions at this time as the projectplanning phase yet to be approved and the specific course of action needed to accomplish the project is unknown. Adoption and Resiliency Questions have been answered based on current assumptions of how the project will proceed.

#### **GHG** Emissions Assessment

#### **Project Construction Emissions**

(If you check any of the boxes, please see the attached worksheet)

#### PHASE II: CONSTRUCTION

- X The project requires nonroad or off-road engines, equipment, or vehicles to complete.
- X The project requires materials to be transported from outside of the UFR watershed.
- X The project requires workers from outside of the UFR watershed.

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 emissions during the construction phase.

## **Operating Emissions**

(If you check any of the boxes, please see the attached worksheet)

#### PHASE II: CONSTRUCTION

X 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.

# 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:

X Not applicable

Reduced snowmelt

Unmet local water needs (drought)

Increased invasive species

Not Applicable

#### **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

Increasing seasonal water use variability

Unmet in-stream flow requirements

Climate-sensitive crops

X Groundwater drought resiliency

Water curtailment effectiveness

This project will study the local ground water sustainability issues and locate the well in an area that is expected to produce long-term water quality to the community. It will also include a back-up well which will provide emergency service to the community if required. The community is receiving ongoing information regarding water usage in to provide education for conservation and reduction of water use in general. This information is provided by the local FRCCSD. In addition, the current water system requires weekly, sometimes biweekly flushing of thousands of gallons to bring down arsenic and iron bacteria levels to make it non toxic for households. This flushing puts additional stress on the already fragile groundwater system and provides no beneficial use of the flushed water. The system installed by this project eliminates the need for flushing to prevent toxicity, and therefore prevents the devastating effects on the community of well failure that could result from the current flushing procedures.

## **Water Quality**

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water quality vulnerability issues:

Not applicable

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

X Water treatment facility operations

X Unmet beneficial uses (municipal and domestic water supply, water contact recreation, cold freshwater habitat, spawning habitat, wildlife habitat, etc.

This project includes infrastructure improvements of water pipe replacement. This will ensure continued domestic water supply to the households and fire hydrants located within the community. The current infrastructure is vulnerable to potential damage that would be extremely difficult to repair due to age and corrosion of the steel pipe and fittings. It is unknown at this time if any water treatment facility will be needed. One of the potential possibilities is to tap into the spring or old surface water system, which may then require additional treatment. The new well and backup well would provide a safe clean domestic water supply.

## **Flooding**

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues:

Χ	Not applicable
	Aging critical flood protection
	Wildfires
	Critical infrastructure in a floodplain
	Insufficient flood control facilities

Not Applicable

#### **Ecosystem and Habitat**

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

X Recreation and economic activity

Quantified environmental flow requirements

Erosion and sedimentation

Endangered or threatened species

Fragmented habitat

This project will help maintain the thriving community of Old Mill Ranch in the Feather River Canyon. This community, though small, shops and uses the business's in Twain, Belden, Hot Springs and Caribou.

### **Hydropower**

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority hydropower vulnerability issues:

X Not applicable

Reduced hydropower output

Not Applicable			