

JPPER FEATHER RIVER IRWM

UFR IRWMP Proposal Summaries

AGRICULTURAL LAND STEWARDSHIP

Sierra Valley groundwater basin



sustainability plan

Organization: Sierra Valley Groundwater Management District Contact: Carl Genasci, Board Chair

- Summary: Preparation of a 20-year horizon Groundwater Sustainability Plan for Sierra Valley Basin characteristics, historical data (quality, quantity, levels, demands) & maps
- Groundwater-surface water interactions
- Projected water demands
- Recharge areas identified Measurable objectives to achieve sustainability within 20 years
- Monitoring protocols

Feasibility study, pilot: Alternatives for alfalfa production to reduce water usag

Organization: Sierra Valley Resource Conservation District

Contact: Rick Roberti, Kristi Jamason, Tom Getts (UCCE), Holly George

Summary: Investigate alternative production possibilities to existing alfalfa hay production and methods that maintain the agricultural heritage of the watershed without increasing risks to producer viability, community values and natural resources. Research of alternative appropriate crops and more efficient alfalfa irrigation methods

Feasibility study

Pilot testing, monitoring/measurement, reporting

The project will seek more water-efficient alfalfa hay production methods and/or alternatives to alfalfa production with lower water demands and minimal disruption to existing operations, as well as solid/equivalent returns.

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Soil health assessment

Organization: University of California Cooperative Extension Contact: Holly George

Summary: Further the understanding of the impacts of land, agriculture and livestock management practices on soil health and resultant soil-based ecosystem services, such as water

regulation, sequestration of greenhouse gasses, vegetation productivity and other biogeochemical processes.

Establish baseline for soil health of ag lands / link with Soil Health Network

- Identify ecosystem processes to target for improvement
- Research effects of differing land management practices on targeted soil biogeochemical processes Region-wide outreach and education

Coldstream agricultural and fire storage impoundment

Organization: Sierra Valley Resource Conservation District

Contact: Jeff Carmichael

Summary: The concept is consideration of an earthen dam located in a feasible location within the Coldstream drainage south of Sierraville to store agricultural water enabling better utilization and more efficient use of available supplies, provide flood control and water storage for fire suppression that is accessible, functional and reliable.

Also included within the concept is a small hydro electric plant. Limited recreational opportunities may occur but the first phase of this undertaking is a technical feasibility study. This phase will identify engineering and geotechnical findings, mapping and soil/water conditions, biological conditions, and issues of concern to the consideration of future phasing of the project.



Organization: Sierra Valley Resource Conservation District

Contact: Jeff Carmichael

Contact. Here commences Summary: The Sierra Valley Water Company operates and maintains a diversion dam and conveyance channel allowing water from the Little Truckee River to be diverted under specific conditions and during a specific season into the Feather River watershed (Sierra Valley). The proposed project is to provide a mechanism for conduit to be installed from the diversion dam for approximately 2.5 miles to significantly increase agricultural water use efficiency and to restore the watercourse ecosystem from Little Truckee Summit to Onion Valley.

The efficiencies in delivery of agricultural water to Sierra Valley under the 1870 water right will also be significantly improved.

Improving water quality with upgrades to infrastructure on working lands

Organization: Feather River Resource Conservation District (FRRCD) Contact: Nils Lunder

Summary: The project will identify opportunities to improve water quality, reduce erosion and sedimentation and increase water use efficiency in the region. The FRRCD will work in partnership with the SVRCD and other organizations in order to connect with landowners in the project area to install infrastructure to protect and enhance riparian areas, to monitor and improve water quality and to better utilize water supplies in the Upper Feather River watershed.

Reduce livestock impact on sensitive riparian areas
 30 solar-powered off-stream stock watering systems
 30,000 feet of riparian fencing
 30000 acres of wetlands restored/enhanced

- Assess and improve water delivery infrastructure
 Irrigation efficiency, 30,000 feet of new pipe

Taylorsville Mill Race Farmers Dam resurfacing



Organization: Taylorsville Mill Race Group sponsored by Feather River Resource Conservation District

Contact: Brian Kingdon

Summary: Resurface the Mill Race Dam in Taylorsville, within the next 10 years, to repair damage and ensure its continued viability for irrigation, wildland fire suppression, flood control, etc.

The dam was last resurfaced in 1986 when the Taylorsville Mill Race Group undertook the work of resurfacing the face of the dam with significant amounts of n-ixind labor and donated expertise and equipment, but it still cost the participant S34,400.



Organization: Feather River Resource Conservation District and Sierra Valley Resource Conservation District

Contact: Russell Reid

Summary: There is an ongoing need to provide technical assistance to working landscape managers and owners to ensure that their operations continue to stay viable, and that improvements to water quality and quantity management can continue to be made. This project would provide cost-sharing assistance for the following general stewardship practices: • Technical assistance and training workshops to develop soil and water quality/conservation plans • Baseline documentation of existing conditions on working landscapes in the region to identify most critical accelerations of the source of the sourc

practices Management practices to improve soil health

Fencing to support specific grazing management plans Infrastructure to increase irrigation efficiency and water conservation

Eradicate invasive weed species Organization: Plumas-Sierra County Department of Agriculture Contact: Tim Gibson

Summary: This multi-year project would support the cohesive strategy of the Plumas-Sierra Ag Department and the Sierra Valley RCD to protect waterways, croplands, timber lands, riparian and wetlands, and recreation areas from the spread of destructive and invasive noxious weeds.

The Sierra Nevada Conservancy as well as both Plumas and Sierra RACs are past and current partners in this effort to enhance watershed health by controlling and eradicating invasive weed species. This project will ensure continuation of the successful weed management program in the UFR.

Sierra Co. agriculture stock well, fire storage, drought reduction project

Organization: County of Sierra – Road Department

Contact: Tim H Beals

Summary: Water source development and improvements - Retrofit existing water tanks, construct new tanks, develop sites for drought stock wells, fire water storage, continued ag/recreational uses for storage, development, distribution within Sierra Valley.

>USFS, RCD and Sierra County to develop strategic plan for improvements

>Cooperative water resource development

Mitigates additional groundwater development

Alternate water supplies for limited community systems in wildland-urban interface

Sierra Valley RCD – Resource management plan



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Organization: Sierra Valley Resource Conservation District Contact: Bill Nunes

Summary: The proposed project will result in a "Resource Management Plan" for the Sierra Valley Resource Conservation District that will have a similar effect as a County General Plan has to counties and their respective land use programs.

The Resource Management Plan will include the district organizational information, financial information, district services contemplated, a funding component, project review guidelines, education and outreach programs, process for plan updating, and a process for adopting and updating priorities for the many chapters of the plan that define the role and interests of the Resource Conservation District.

Upper Feather River weather monitoring infrastructure

Organization: Feather River Resource Conservation District (FRRCD)

Contact: Nils Lunder

Summary: This project will establish a weather station in each of the main valley areas in the upper Feather River. These stations will provide real-time, internet accessible data on temperature, precipitation, humidity, soil motisture, wind speed, and solar datation. This information will be available to residents of the region including ranchers, water managers and municipalities.



PER FEATHER RIVER IRWM

UFR IRWMP Proposal Summaries

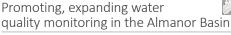
FLOODPLAINS/MEADOWS/WATERBODIES



Restore creek to original path

Organization: Maidu Summit Consortium Contact: Carl Felts

Summary: Restore creek that runs year round to original path that flows into Lake Almanor. Crew of 4-6 people to walk creek and clear debris to restore it to its former flow. Over the years debris has fallen across the creek which has diverted its flow and caused the creek to spread out across a larger area. This accounts for loss of water due to evaporation and absorption.



Organization: Lake Almanor Watershed Group; Sierra Institute for Community and Environment Contact: Aaron Seandel

Summary: To expand and extend lake and streamflow monitoring program throughout the Feather River watershed, and provide central clearing house (s) where monitoring data can be assessed and maintained, and programs of interest and for educational purposes about the watershed can be developed. distributed, and maintained.

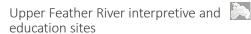
To continue the sampling program at Lake Almanor.

Mountain Meadows Reservoir wildlife enhancement, water quality improvement

Organization: Mountain Meadows Conservancy (MMC)

Contact: Nils Lunder

Summary: The project will lead to the development of infrastructure that will protect the shoreline of the Mountain Meadows Reservoir (MMR) in an attempt to enhance wildlife habitat and improve water quality. It will also fund the development of an annual monitoring program to assess the impact that the infrastructure has on wildlife in and around the MMR and the downstream effects on water quality in partnership with the Lake Almanor Watershed Group.



Organization: Mountain Meadows Conservancy (MMC)

Contact: Nils Lunder

Contact with clinical Summary: The project will facilitate the development of two interpretive and educational sites in the upper Feather River. There will be two sites; one will be located approximately 4 miles east of Westwood along the edge of the Mountain Meadows on Highway 36. The second site is located 1 mile east of Chester on Highway 36. The proposed project will increase awareness of the management of lands of the upper Feather River and how those management actions are related to the delivery of water from the watershed to downstream water users. The sites will showcase adaptive management techniques that are being implemented in the region to ensure that downstream water users have reliable, high quality water into the future. Management, techniques include rangeland management, forest management, reservoir management, wastewater management, recreational management and wildlife management.

Watershed monitoring program

Organization: USDA Natural Resources Conservation Service (NRCS

Contact: Dan Z. Martynn

Summary: To expand and extend existing streamflow monitoring Program throughout watershed to include Lake Almanor basin and provide central clearing house where monitoring data can be assessed and maintained. Sharing of water quality and quantity data with stakeholders in watershed will allow local water users to make informed decisions and aid in collaboration on future projects.

UFR cooperative LiDAR and GIS support program



Organization: Plumas County

Contact: Randy Wilson

Summary: This project will directly support mapping and project-design for a large number of other currently-proposed IRWM projects, and each project could potentially contribute a small portion of their budget to an overall mapping budget for the entire UFR Region.

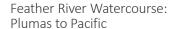
This project will be a collaborative effort between the US Forest Service, Plumas County, and other IRWM signatories to fund acquisition of LIDAR topography data for the remainder of the Upper Feather River Watershed.



PIUMAS COUNTY SPANISN CREEK RESTORAT

Contact: Robert A. Perreault , Jr

Summary: During the past several years, the amount of gravel extracted has been curtailed due to permitting requirements by the California Department of Fish and Game. As a result, an increasing amount of gravel has deposited in American Valley, resulting in a re-initiation of bank erosion and land loss. As a result, the Spanish Creek landowners have approached Plumas County for assistance. The community and landowners recognize the need for a holistic and long-term approach to managing the problems.



Organization: Plumas Unified School District

Contact: Rob Wade

Summary: The Watercourse: Plumas to Pacific is an integrated, year-long course of study that uses the Feather River and its tributaries to teach concepts in life science, earth science, social studies, and mathematics. Building upon established elements of the sixth grade curriculum, students examine the influences of mining, logging, ranching/faming in the region, as well as water uses for transportation, recreation, wildlife/fisheries, hydroelectric power, commerce, and municipal/domestic purposes.

Plumas Corporation had successfully secured funding for the coordination of The Watercourse for the last ten years.

Advancing watershed stewardship: Outreach and education

Organization: Sierra Institute for Community and Environment/Lake Almanor Watershed Group

Summary: There is an imminent need for large-scale reductions in non-point sources of nutrient deposition into the Lake and widespread education on the role of residents and visitors in these issues.

This project will build upon established community connections and previous research to engage the public in activities that increase understanding of human-mediate influences on water quality and invasive species in Lake Almanor, and develop action to reduce nutrient deposition into the Lake Almanor and the potential for invasive species introduction.



Organization: Sierra Institute for Community and Environment/ Lake Almanor Watershed Group Contact: Charles Plopper

Summary: Goal: Protect, maintain and improve water quality in the Lake Almanor Basin, by

1) exploring current practices used in other lake side communities to minimize impact of activity,

2) develop recommendations to address modification of current practices,

3) develop and engineer plans for addressing identified problems.

Restoration of Little Last Chance Lake and surrounding meadow

Organization: Sierra Wildlife Habitat & Community Foundation (SWHCF) and Sierra Valley Resource Conservation District (SVRCD

Summary: This project will restore and enhance 450 acres of wetland and sub-irrigated meadows back to how this land was before the creek was altered. General tasks that will be completed: • Assessment and evaluation of project concept with NRCS assistance. • Meet with DWR to apply for a supplemental right to divert water from Middle Fork Feather River. • Obtain signed agreements between all landowners involved in project.



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Sierra Valley meadow assessment

Organization: Sierra Valley Resource Conservation District

Contact: Rick Roberti

Summary: Sierra Valley RCD would like a study done based solely on the meadows in Sierra Valley. Over the years there have been studies done on meadows in our watershed, but many of those studies were done nearly 50 years ago.

There are capable people who know Sierra Valley and have conducted studies in Sierra Valley, such as UC Cooperative Extension and University Nevada, Reno. The above-mentioned resear facilities would be contacted as potential participants in conducting a meadow assessment study. , rch



Folchi Meadow restoration

Organization: U.S. Forest Service

Contact: Rick Roberti

Finalize design and budget. Set project schedule and timeline. Develop bid documents. Select contractors.

Contact: Randy Westmoreland

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Priority projects of FRTU

Organization: Feather River chapter of Trout Unlimited (FRTU)

Contact: Cindy Noble

- Summary: the chapter intends to work with the USFS to
- expand the Interpretive Sign program that is currently being developed in the Storrie Fire area, work with PCUSD to expand our regional Trout in the classroom program, further investigate and plan for a total renovation of the Indian Jim School site in the Feather River Canona and
- address fish passage on private lands by installing fish screens where willing landowners exist.

Climate change effects on Upper Feather River fisheries

Organization: Ecosystem Sciences Foundation/Upper Feather River Trout Unlimited Contact: Mark Hill

Summary: This project will develop distribution models from fish species and temperature data for separate time periods, then comparisons made between periods for locations of upstream and downstream distributional boundaries. The shift in fish species across boundaries will be evaluated using bioclimatic models



Mountain Meadows fencing

Organization: W.M. Beaty & Associates

Contact: Rvan Hilburn

Summary: The proposed project includes the installation of approximately 10 miles of fence in order to exclude livestock from active stream channels. The riparian fencing would be one component of a larger effort by participating landowners to restore the historic creek channels, improve pasture management, increase irrigation efficiency and improve forage conditions on lands within the project area.

Debris dam survey, inventory and characterization



Organization: Trout Unlimited

Contact: Mike Caltagirone

Summary: This project will locate and characterize all existing dams within the Upper Feather River watershed allowing for prioritization for removal.

Former dam sites will also be cataloged, where available, and characterized as potential remediation projects depending on prioritization levels and residual impacts.

Samples will be taken from the dam sites for contamination testing.

Once identified, the prioritization list of existing and failed dam sites will be utilized to guide the remediation of these sites.



UFR IRWMP Proposal Summaries

MUNICIPAL SERVICES

PER FEATHER RIVER IRWM

Portola wastewater system infrastructure upgrades

Organization: City of Portola Contact: Robert Meacher

Summary: This proposed solution to correct the increased inflow/infiltration(1&I) to the City system is a discrete plan to reconstruct aged failing and failed sewer lines throughout the City as determined by existing video logs of the system. Maps on file at CIty Hail show where the reconstruction work is being proposed. Also on file are types of reconstruction with individual cost estimates, which includes; open trench, fold and form linings, and point repairs.

Turner Springs improvement

Organization: City of Portola

Contact: Robert Meacher Summary. The City owns a pre-1914 water source and approximately 25 acres at Turner Springs. It was used to supply water to town until Lake Davis was built. The project is to improve the spring, replace the old water lines and connect to existing lines along highway A-15.

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spring, replace the old water lines and connect to existing lines along highway A-15. The property also has about 20 acres of second-growth timber land that is in desperate need of fire-hazard reduction/watershed enhancement work, as it is badly over-stocked with young growth.



Water tank project

Organization: East Quincy Services District (EQSD)

Contact: Michael Green

Summary: The general tasks that will be completed for the 800,000 gallon tank are: 1. Preparation of a detailed site survey which would include a boundary determination of the existing parcel and topographic details to ensure accurate grading for the placement of the new tank. Cultural features, including on-site District infrastructure, would be shown/determined. 2. A Plumas County Grading Permit will be obtained. 3. Plans, Specifications and Engineer's estimate will be prepared for both the site grading and the tank including the set of the set of the site grading and the tank including the set of the site grading and the set of the site grading and the strengther.

Project solicitation, bidding and administration would lead to a completed project.

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FRCCSD- Old Mill Ranch

Organization: FRCCSD- Old Mill Ranch

Contact: Rick Reynolds

Summary: Provide a new and sustainable water source which 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 planning phase will compare construction, operation and maintenance cost of the alternatives.

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High elevation water tank & well Organization: Gold Mountain Community Service District (GM CSD)

Phase 2: Drilling a high altitude well to service the new tank.

Summary: Phase 1: Construction of a new water storage tank at an elevation of 5670' to ensure a positive supply of domestic water distributed via gravity flow to all locations in the service



Organization: Gold Mountain Community Service District (GM CSD)

Contact: Ivan Gossage

Summary: The CSD needs to install a modern Water Reclamation treatment and pumping facility to reclaim wastewater for irrigation at a golf course within the Gold Mountain CSD service area. This project will significantly increase the quality of wastewater to the leach fields, as well as provide additional filtration of the treated wastewater effluent for reclaim to a golf course.

GM CSD water reclamation facility



Crocker water service meters

Organization: Grizzly Lake CSD

Contact: Jared Recasens

Contact: Ivan Gossage

area

Summary: Project will consist of replacing all the illegal service laterals to meet UPC and install new water meters.

Every lateral needs to be upgraded from property line to mainline and install approx 120 radio read meters and computer software to monitor and read the system.

Meters will be calibrated to accurately measure flow of water to meet mfg. specs.

Additional fire hydrants will be added to meet NFPA standards to improve overall fire protection.

Crocker Welch ground tank repair

Organization: Grizzly Lake CSD

Contact: Jared D. Recasens

Summary: This project includes repairing and bringing up to code the Crocker/Welch 211,000 water trank. Project will retrofit the deteriorated water storage tank to provide a reliable water supply to customers. The tank is rusting on the inside and needs to be made OSHA Compliant and meet NFPA and AWWA codes.



Delleker water meters

Organization: Grizzly Lake CSD

Contact: Jared D. Recasens

Summary: Project will consist of replacing approximately 1000 lineal feet mainline as needed. Replace several service laterals and install approximately 400 radio read meters and the computer software necessary to read the system.

All related appurtenances (meter box, yoke, meters, misc fittings) will also need to be replaced.





Organization: Grizzly Lake CSD

Contact: Jared D. Recasens

Summary: The Delleker Tank requires repairs to bring it up to meet OSHA, NFPA, AWWA and EPA codes. It is estimated that approximately 4,200,000 gallons of water will be saved annually by repairing the leaks and refurbishing this tank.

Groundwater monitoring

Organization: Plumas County Environmental Health

Contact: Pat Sanders

Summary: This project will gather, tabulate and input existing groundwater monitoring data into GIS layer(s) that will be publicly available.

Environmental Health would supply existing, available data, along with data point field locations (longitude and latitude of groundwater well locations) to a qualified consultant for creation of GIS water quality layer(s). The GIS data points would then link to tabular monitoring data by constituent, over time.

Chandler Road bridge erosion



Organization: Plumas County Department of Public Works - Engineering Contact: Robert A. Perreault , Jr.

Summary: Significant bank erosion has occurred upstream from the Chandler Road bridge on Spanish Creek and is in need of erosion protection by means of rip rap to reduce the turbidity of the stream from erosion.



Humbug Valley Road bridge erosion

Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault , Jr.

Summary: Seasonal flooding of Road 308 is in need of a new culvert to improve water flow, raising the road to eliminate flooding, and armoring the roadside ditches to prevent polluting adjacent lands and reduce ditch turbidity flowing to streams.





Road 311 culvert improvement

Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault , Jr.

Summary: Seasonal flooding of Road 311 is in need of a new culvert to improve water flow, raising the road to eliminate flooding, and armoring the roadside ditches to prevent polluting adjacent lands and reduce ditch turbidity flowing to streams



Road 318 culvert improvement

Organization: Plumas County Department of Public Works – Engineering

Contact: Robert A. Perreault . Jr.

Summary: Seasonal flooding of Road 318 is in need of a new culvert to improve water flow, raising the road to eliminate flooding, and armoring the roadside ditches to prevent polluting adjacent lands and reduce ditch turbidity flowing to streams.





Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault . Jr.

Summary: Significant bank erosion has occurred upstream from the North Valley Road bridge on Indian Creek and is in need of erosion protection by means of rip rap to reduce the turbidity of the stream from erosion.

Mill Creek erosion

Organization: Plumas County Department of Public Works - Engineering

Contact: Robert A. Perreault , Jr.

Summary: Eroded slopes on Mill Creek upstream from Highway 70 is in need of erosion protection by means of rip rap to reduce the turbidity of the stream from excessive erosion. The erosion is caused by the water flow under the highway 70 bridge being inadequate and water backs up causing erosion.

Smith Creek Erosion



Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault, Jr. Summary: The buildup of gravel from erosion upstream is causing the creek to overflow over the Johnsville-Graegele Road bridge. The project consists of gravel buildup removal.



Wapaunsie Creek erosion

Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault , Jr.

Summary: Eroded creek bank on Wapaunsie Creek and Snake Lake Road is in need of erosion protection by means of rip rap to reduce the turbidity of water flowing to Spanish Creek from excessive erosion.

Stampfli Lane bridge erosion

Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault, Jr.

Summary: Significant bank erosion has occurred upstream from the Stampfli Lane bridge on Indian Creek and is in need of erosion protection by means of rip rap to reduce the turbidity of the stream from erosion.

Walker Ranch CSD infrastructure improvements

Organization: Plumas County Department of Public Works – Engineering

Contact: Robert A. Perreault , Jr.

Summary: Significant water loss from the Walker Ranch CSD system is occurring from the water supply system through an aging water system with significant leaks. The system needs an exfiltration water study to determine definitively the extent of water loss.



Humbug Valley Road 307 culvert improvement



Organization: Plumas County Department of Public Works – Engineering Contact: Robert A. Perreault , Jr.

Summary: Seasonal flooding of Road 307 at three locations are in need of new culverts to improve water flow, raising the road to eliminate flooding, and armonig the roadside ditches to prevent polluting adjacent laads and reduce ditch turbidity flowing to streams

Municipal well #3

Organization: Plumas-Eureka Community Services District

Contact: Frank Motzkus

Summary: The Plumas-Eureka CSD "Preliminary Engineering Report for the 2015 Water System Improvements" identifies the need to increase the water supply volume for future use. The new 500 gallon per minitte well would also have an arsenic removal system.

Treated wastewater reuse

Organization: Plumas-Eureka Community Services District

Contact: Frank Motzkus

Summary: When completed, the Plumas-Eureka CSD "Treated Wastewater Effluent Feasibility Study", performed by Bastian Engineering, identifies the possibility of utilizing treated wastewater as an irrigation supplement to the Plumas Pines Golf Course. Plumas-Eureka has two wastewater treatment plants, only one that has the ability to supplement irrigation water on the front nine holes. The other wastewater treatment plant discharges its treated effluent to a community leachfield on a daily basis.



Water meter installation

Organization: Plumas-Eureka Community Services District

Contact: Frank Motzkus

Summary: Water Meter Installation

The Plumas-Eureka CSD "Preliminary Engineering Report for the 2015 Water System Improvements" recommends the installation of water meters throughout the Plumas-Eureka community. Approximately 645 radio read meters would be installed and new computer software to monitor/read the system.



Water storage tank replacement

Organization: Plumas-Eureka Community Services District Contact: Frank Motzkus

Summary: The Plumas-Eureka CSD "Preliminary Engineering Report for the 2015 Water System Improvements" recommended the replacement of an existing 190,000 gallon storage tank due to seismic concerns and existing steel construction. New tank = 400,00 gallons.



Organization: Plumas-Eureka Community Services District

Contact: Frank Motzkus

Summary: Wastewater treatment plant #6 is approximately 35 years old. Current treatment methods may not be sufficient to meet unrestricted reuse of treated wastewater for irrigation purposes. An engineering report would need to be done to identify the possible upgrades needed and/or complete plant replacement.





Organization: Plumas-Eureka Community Services District

Contact: Frank Motzkus

Summary: The replacement project would move the lift station to a more appropriate location and provide for 12,000 gallons of emergency storage of raw sewage.

Water system improvements

Organization: Quincy Community Services District (QCSD)

Contact: Larry Sullivan

Summary: The proposed project consists of four elements that can be implemented as one project or individually. Spring UV Disinfection Project

Wildland Fuel Reduction Project

South Quincy Pressure Zone Feasibility Study

Central/Edwards/Summerfield Waterline Replacement Project

Sierra County road improvements



Organization: Sierra County – Road Dept. Contact: Tim Beals Summary: Install culverts and drains, build detention basins, create drainage, reduce erosion, re-establish historic flows, drain storm water on select county roads.

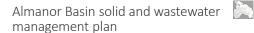


Water storage project

Organization: Westwood CSD

Contact: Susan Coffi

Summary: Construct a one (1) million gallon water storage tank to bring the Westwood Community Services District (WWCSD) up to minimum state requirements. The District has one active water source and one SOJ000 water storage tank, and therefore does not have a second source of supply or sufficient storage to meet the source/storage capacity criteria required by the State.



Organization: LAWG/Maidu Summit Consortium/Sierra Institute Contact: Carl Felts

Summary: This project would be the first phase of a two phase project. This phase is to develop an integrated basin-wide solid waste and waste water ma around Lake Almanor.

The second phase will be the construction of the approved system



Leak detection and repair

Organization: Sierraville Public Utility District

Contact: Nanci Davis

Summary: Our water delivery system is aging and numerous leaks have been discovered and repaired during routine maintenance. We are certain that there are significant additional undiscovered leaks in the system and repair of those leaks would greatly contribute to our water conservation efforts.



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Organization: Sierraville Public Utility District

Contact: Nanci Davis

Summary: SPUD has been directed to research and develop an alternative water source. We know we have adjudicated rights to Webber Creek water, but no means to filter, pump and deliver the water. There may also be potential for development of a well somewhere in the details. vicinity.

Phase 1. Hire a consultant to research options and requirements for development of each option. Phase 2. Implement the best option recommended by the consultant.

Meter replacement

Organization: Sierraville Public Utility District

Contact: Nanci Davis

Summary: SPUD has old meters of differing makes and models with unreliable accuracy. Reading becomes difficult due to snow accumulation and rodent damage. It has been difficult to hire and insure a meter reader. Remote read meters with smart technology will allow us to greatly increase water conservation with accurate and immediate leak detection ability.

Pumphouse improvement



Organization: Sierraville Public Utility District

Contact: Nanci Davis

Summary: Upgrade pumphouse to adhere to OSHA standards, to house new pump and new secondary pump, to isolate chlorine storage, to adequately ventilate and heat, to secure from rodent intrusion, to install eye wash station and for electrical and control upgrades.

Depending on results of alternative water source analysis it is possible that the pumphouse would be designed to house a filtration system.



Tank replacement project

Organization: Sierraville Public Utility District

Contact: Nanci Davis

Summary: SPUD needs additional storage to meet the combination of maximum daily demand and fire protection requirements.

SPUD has a storage tank that has been taken out of service due to its dilapidated condition leaving the district with a single 215,000 gallon tank to serve the entire system. The remaining tank is visibly leaking although it has a remaining life of 15 years.



Organization: East Quincy Services District (EQSD)

Contact: Michael Green

Context initials determined by the service meter reading system with an automatic reading system would conserve groundwater and protect and improve the water supply reliability per the IRWM Plan Objectives by providing more accurate and timely usage data. With such data, EQSD could audit the water usage and more readily assess water system loss. The general tasks that will be completed are: 1. Replace the existing water meters with the proposed Sensus I-Perl meters. 2. Install meter reading equipment. 3. Project solicitation, bidding and administration would lead to a completed project.

Replace copper service lines project

Organization: East Quincy Services District (EQSD)

Contact: Michael Green

Summary: Replace 450 copper water service lines from the corporation stop at the water main to the service meter with polyethylene pipe of the same size.



UFR IRWMP Proposal Summaries

UPLANDS AND FOREST

PER FEATHER RIVER IRWM

Featherriver.org

Marian Meadow

Organization: Cal Poly – San Luis Obispo Contact: Christopher Surfleet

Summary: Cuantifying the response of meadow restoration assists forest, range, and agricultural land managers determine the effect of their investment in meadow restoration. This study is using a before after control intervention (BACI) study design to study the hydrologic change confiler removal from a historic meadow (Marian Meadow). We have been measuring soil molisture, groundwater levels, and soil hydric characteristics for two years prior to meadow restoration and currently have funding for study one year following meadow restoration.

This application is requesting funding to increase the length of study by two years.

Rock Creek Meadow restoration

Organization: Collins Pine Company

Contact: Jay Francis

Summary: This study will use a before/after control intervention (BACI) study design to study the hydrologic change conifer removal from a historic meadow (Rock Creek Meadow). We will be measuring soil moisture, groundwater levels, and soil hydric characteristics for two years prior to meadow restoration and two years following meadow restoration.



Round Valley/Keddie handthin

Organization: Plumas National Forest

Contact: Ryan Tompkins

Summary: The project includes 375 acres of handthinning, piling and burning to reduce hazardous ladder and surface fuels in and around the Round Valley Reservoir and the Wildland urban interface east of the reservoir proximate to the community of Greenville.

The areas proposed for treatment include NFS lands within the Greenville Municipal Water District (near Round Valley Reservoir) and within the lower Wolf Creek watershed which is a Plumas NF priority watershed classified as "Functioning at Risk" watershed.



Organization: USDA – Plumas National Forest

Contact: Joe Hoffman

Summary: This project will reduce road-generated sediment delivery to streams in four priority watersheds on Plumas National Forest by improving drainage along roughly 80 miles of Forest roads or motorized trails. All of the 260 miles of road in the 4 watersheds will be field surveyed and treatments will target problem road segments.



Goodrich Creek biomass

Organization: W.M. Beaty & Associates

Contact: Ryan Hilburn

Summary: The project would provide for biomass harvesting to be conducted on approximately 2,800 acres of private forestland that is adjacent to a recently funded pond and plug project on tributaries that flow into Goodrich Creek.

The pond and plug project is designed to restore approximately 125 acres of upland meadow to its original hydrologic condition allowing for increased natural water storage.

Greenville Creek biomass

Organization: W.M. Beaty & Associates

Contact: Ryan Hilburn

Summary: The project would provide for biomass harvesting to be conducted on approximately 1,350 acres of private forestland that is adjacent to a recently funded pond and plug project on Greenville Creek which flows into Mountain Meadows Reservoir.

The project will also reduce fuel levels on the northern slopes of Keddie Ridge reducing the risk of catastrophic wildfire in that area protecting resources such as Deerheart and Homer Lakes.

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Mountain Meadows Creek biomass

Organization: W.M. Beaty & Associates

Contact: Ryan Hilburn

Summary: The project would provide for biomass harvesting to be conducted on approximately 1,700 acres of private forestland that is adjacent to Mountain Meadows Reservoir.

This project will be designed to decrease the density of small understory trees reducing the amount of evapotranspiration and canopy interception.

UFR cooperative regional thinning

Organization: Soper Company

Contact: Ryan J. McKillop

Summary: The purpose of the project is to:

1.) Reduce catastrophic wildfire in overstocked forests through forest thinning ,

2. Restore the forest hydrograph by reducing the rate of conifer evapotranspiration, and

3. Reduce conifer interception of rain and snow and enhance the infiltration of soil moisture by increasing spacing of dominant and codominant overstory trees.

The phased, cooperative project will be designed and implemented at a broad, multi-ownership, landscape level.



PER FEATHER RIVER IRWM

UFR IRWMP Proposal Summaries

TRIBAL ADVISORY COMMITTEE



Big Springs vegetation management

Organization: Maidu Summit Consortium

Contact: Kenneth Holbrook

Summary: The Big Springs site is largely public land owned by the U.S.F.S. Staff at the Almanor Ranger District has a standing Aspen Restoration Project that they have been planning for some time. The plan calls for mechanical treatment of the surrounding conifer stands, as well as hand treatment for the immediate area surrounding the Springs.

We propose that The Maidu Summit Consortium be contracted for this work, and that a Traditional Ecological Knowledge (TEK) driven ethno-botany study be performed in conjunction with the Aspen restoration.



Mud Creek habitat recovery

Organization: Maidu Summit Consortium

Contact: Kenneth Holbrook

Summary: The site at Mud Creek is currently grossly undermanaged and the Maidu Summit wishes to restore and improve this site using Maidu Traditional ecological Knowledge (TEK).

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.



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Organization: Maidu Summit Consortium

Contact: Kenneth Holbrook

Summary: Develop a research area in Humbug Valley featuring Traditional Ecological Knowledge (TEK) and western science in long term impacts of TEK implementation on ecological resources.

Hydrology, soil analysis, botanical resources, sensitive species, invasive species, habitat inventory, wildlife resources, cultural resources, identifying needed restoration, cultural resources, fire management, boundaries and public use/access are all areas for further development and research.

The area will be used as a long term outdoor research area and will serve as an outdoor learning center.

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Indian Jim River resource center

Organization: Maidu Summit Consortium

Contact: Kenneth Holbrook

Summary: We seek to complete the remediation of hazardous materials at the old Indian Jim School site and to recover the building, if possible, in order to establish a River Resource Center. If the building is unable to be saved, we would secondarily seek to construct a new building.



Organization: Maidu Summit Consortium

Contact: Trina Cunningham

Summary: The Upper Feather River Tribal Review Project provides a mechanism for relevant Upper Feather River (URR) Tribe(s), the Maidu Summit Consortium and/or Tribal Review Committee to evaluate and provide recommendations to each project submitted to the UFR RWMG to incorporate Traditional Ecological Knowledge (TEK), Project reviewers will be comprised of Tribal Environmental Directors, Tribal Elders, and other persons with knowledge of Traditional Practices and sustainability.

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