WaterSMART Small-Scale Water Efficiency Projects
for FY 2022 Funding Opportunity Announcement No. R22AS00195

The Lower Utica Canal Lining and Gaging Stations Project

Total Project Cost: $171,300.30

Applicant
Utica Water and Power Authority
68 Booster Way, Angels Camp, CA 95222

Project Manager
Joel Metzger, General Manager
209-736-9419
joelm@uticawater.com

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Executive summary

Applicant Information

Date: April 28, 2022
Applicant Name: Utica Water and Power Authority
City, County, State: Angels Camp, Calaveras County, California
Applicant Type: Category A: Water and Power Delivery Authority

Project Summary

The Utica Water and Power Authority in northern California operates a 27-mile-long water conveyance system. The water system includes five water storage reservoirs and two small hydroelectric powerhouses. The Lower Utica Canal Lining and Gaging Stations Project will line ,800 feet of canal using reinforced shotcrete and add two gaging stations. The shotcrete canal lining will reduce water loss due to seepage and vegetation penetration and evaporation. The lining will also reduce sediment loading in the canal and reservoirs, increasing flood control, emergency water storage, and drought preparation. Efficiency and increased water supply will improve Utica's ability to produce renewable energy at its two hydroelectric facilities. Stakeholders who will benefit from this project include 10,000 people reliant on

this sole public water supply, the City of Angels Camp, the Union Public Utility District, and local and state fire Authorities. Canal lining and adding resources to monitor water

supply with gaging stations are projects included in Utica's 2020-2 25 Capital Improvement Plan and its 2021 Local Hazard Mitigation Plan.

Estimated Completion Schedule

The completion of the project will take 24 months from the date of funding authorization, which is assumed to be in March 2023. Since Utica's canal must be dewatered to install shotcrete, the projects will take place during Utica's scheduled maintenance outages, which generally occur in November and April annually. The project will be completed no later than by March 31, 2025.

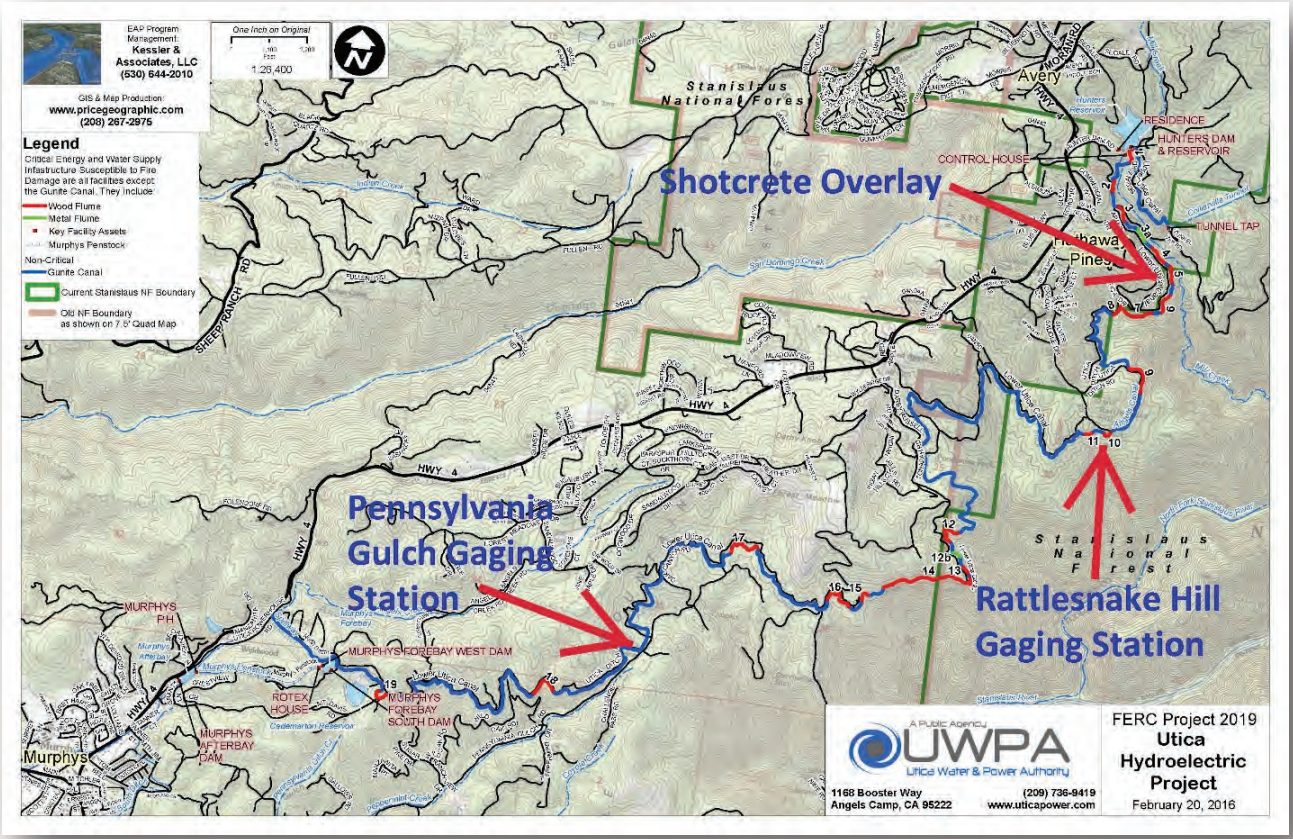
Federal Facility

Water moving through Utica's conveyance system flow to the Reclamation's New Melones Reservoir. Improvements to this system will improve water management and flow to this Federal facility.

Project location

The Lower Utica Canal Lining and Gaging Stations Project are located in Calaveras County, California between Avery, CA and Murphys, CA.

Project Map

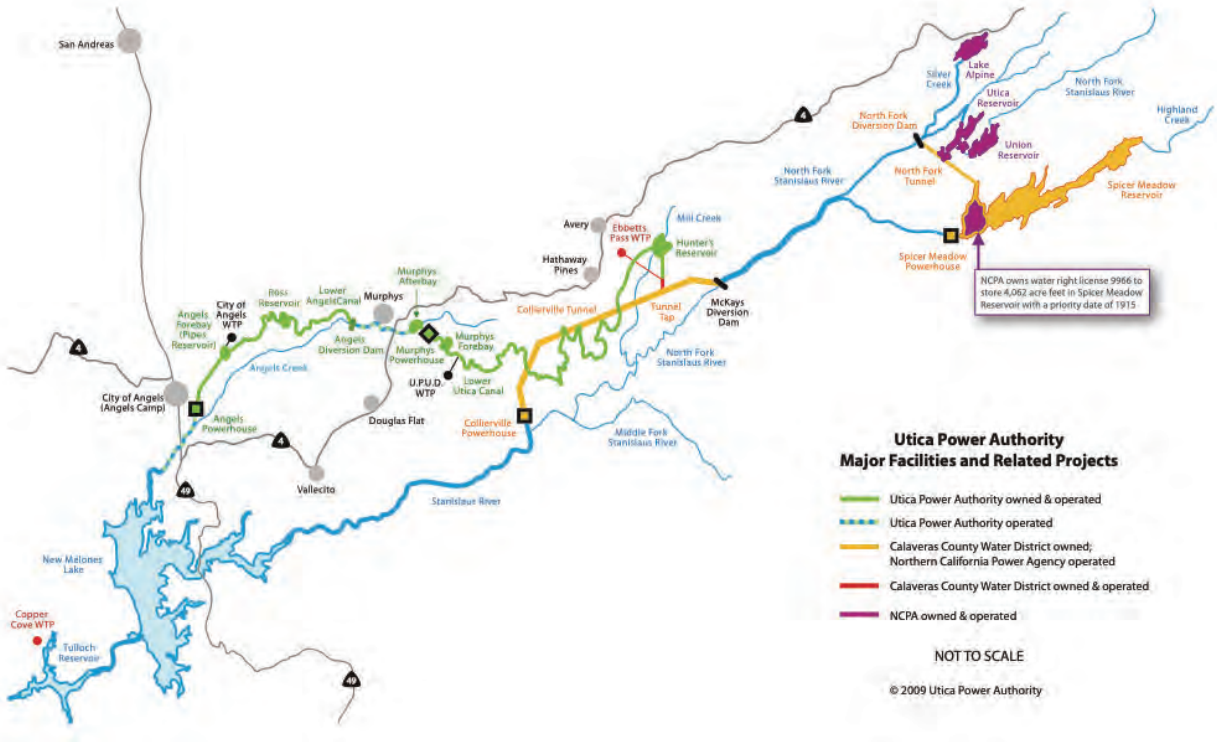


The longitude and latitude of projects are the following:

- Shotcrete Overlay: Begins: 38.18826643973966, -120.35395377152659, Ends: 38.1869109831774, -120.35414903573184.
- Rattlesnake Hill Gaging Station: 38.17570271367059, -120.35803691386126.
- Pennslvania Gulch Gaging Station: 38.15343803622655, -120.4022627471234.

Technical project description

The Lower Utica Canal is part of the only water conveyance system between Avery, Murphys, and Angels Camp, and is relied on for the public water supply by more than 10,000 people, who live in the City of Angels Camp, Union Public Utility District and local and state fire districts. Utica has a contract that guarantees a certain amount of water, depending on the hydrologic conditions in the Sierra Nevada Mountains. In extreme drought years, Utica may convey as little as 16,000-acre feet of water, while in the wettest years, Utica conveys at least 33,000-acre feet through the system. These numbers generally lead to flows in the canal ranging from about 20 CFS to 50 CFS. The Utica water conveyance system begins at Hunters Reservoir and conveys water to the Murphys Forebay and eventually the City of Angels Camp. The goal of this project is to increase efficiency and reliability of the community's water supply by lining a portion of Utica's canals with shotcrete and adding two additional gaging stations in the 13.5-mile section of Utica's system between Hunters Reservoir and Murphys Forebay



Shotcrete Canal Lining

Project Description

Utica's has identified water losses of up to 5% between Hunters Reservoir and Murphys Forebay. These losses are measured using gaging stations. The first gaging station is installed at the top of the conveyance system at Hunters Reservoir. The second gaging station, 13.5 miles downstream, measures the amount of water that ends up at the Murphys Forebay. Measurement of losses are found to occur between these two points, and this project's primary goals are to better identify locations of losses, to increase the efficiency of this section and reduce water loss. Lining the canal with new shotcrete will reduce seepage and water lost and create a more durable canal surface with hydraulic properties that are stable and easier to maintain.

Below is a table that shows water released from Hunter Reservoir (in blue) and the final measurement at Murphys Forebay (in yellow). Between these areas is 13.5 miles of canal, which is losing about 5% of its water between the top and bottom. Utica determined this loss by taking releases from Hunter Reservoir, subtracting water delivering's (in green) and comparing the gage read at the bottom of the system at Murphys Forebay (in yellow). The data shows an average of 1.5 CFS or 673.2 GPM system loss due to seepage, vegetation roots, or 5% total water loss.

Table. Measurement of Water – Example of UTICA data

	Allocated CFS/Day from Hunter Reservoir	s80/Cat CFS avg	128 Fish Rel	rrigation Deliveries	Sys oss (CFS)	PH CFS
ay	36.7	2.073	1.62	0.05	5.493	31.207
une	38.9	3.268	1.62	0.05	6.688	32.212
uly	39.1	4.207	1.62	0.05	7.627	31.473
August	40.2	4.378	1.62	0.05	8.048	32.152
September	40.3	3.843	1.62	0.05	7.513	32.787
October	40.2	2.534	1.62	0.05	6.204	33.996
ovember	35.9	1.495	0.58	0	3.825	32.075
December	35.5	0.81	0.58	0	3.14	32.36
anuary	34.7	0.83	0.58	0	3.16	31.54
February	33.9	0.71	0.58	0	3.04	30.86
arch	34	0.85	0.58	0	3.18	30.82
April	35	1.25	0.58	0	3.58	31.42

Upper System Loss=	1.5	CFS	Upper System oss=	673.2 GPM
Upper Summer Evaporation =	0.25	CFS	Upper Summer Evaporation =	112.2 GPM

Construction Description

The proposed project will overlay an 1,800-foot section of the Lower Utica Canal using the equipment, materials and construction techniques listed below.

Utica staff will spend weeks preparing for this project to ensure access is established and the project area is prepared. The first step in preparation is to establish access to the canal lining project sites. This will involve roadway improvements to accommodate concrete trucks and pump trucks, and to ensure the project sites can be accessed. Utica staff will improve roadways by grading with heavy equipment owned by Utica, putting down a layer of base rock, clearing vegetation from major roadways and smaller roads leading to the project site using chainsaws, pole saws, and mastication equipment. At the project site, vegetation between the canal access road and canal must be cleared for hose lines and construction worker access. When cleaning out the canal in preparation for new shotcrete, vegetation removal along the canal must take place, and sloughing earthen embankments must be shaved and shoveled out of the project area. Sediment, rocks, and debris must be removed from the canal bottom and sides.

Once cleaning of the project site has been completed prep work before overlay of shotcrete must occur. Prep work will include rolling out a 6-foot wide by 100-foot long with 6-inch by 6-inch welded wire mesh squares that will be carried out by hand to the project site. Sections of wire mesh will be cut to size and formed to the canal in a U-shape, and individual pieces will be fastened together with wire.

Once the site preparation is complete, concrete trucks and pump trucks will arrive on site using the roadways Utica has improved. The contractor hired to perform pumping will operate the hose that sprays the shotcrete onto the wire mesh and canal. The shotcrete truck operators will dump shotcrete into the pumper truck. A Utica project manager will need to be on site to oversee the project, and additional staff members will be needed pull shotcrete hoses, position the wire in the center of the new layer of shotcrete and apply a “broom finish”. Additional temporary labor will be needed to cover other miscellaneous tasks that come up during this labor-intensive project.

Materials/Equipment

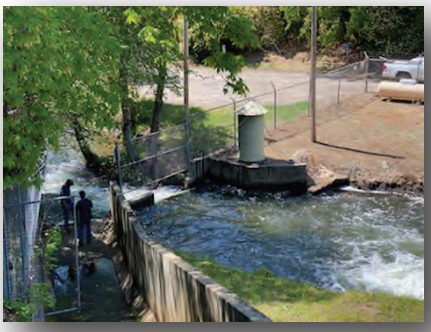
Concrete batching and delivery shall meet requirements and specifications ASTM C94 and ACI304R as applicable, and the following specifications:

- Application: Pumpable mix for shotcrete application of 2 or more inches of canal pavement
- Cement: 7 sack minimum Type V low alkali cement content per cubic yard
- Fly Ash: Class F fly ash content of 20% to 30% per cubic yard Specified Strength: 4,000 PSI at 28 days
- Fiber: 3 lbs per yard of 3/4" fibrillated polypropylene fiber
- Superplasticizer: 1 to 2%
- Application: Pumpable mix for shotcrete application to include super plasticizer
- Air Entrainment: 6% air plus or minus 1.5%
- Slump: Maximum of 5 inch and determined at the time of pour

Gaging Station Installation

Project Description

Utica has two existing gaging stations between Hunters Reservoir and Murphys Forebay. The stations provide real-time flow and trending to Utica's Supervisory Control and Data Acquisition (SCADA) system. Water released from Hunter Reservoir is measured at the S47 Gaging Station, just downstream of Hunter Dam. This is Utica's primary point of measurement for releases into the 3.5-mile of water conveyance system between Avery and Murphys. At the end of the 13.5-mile Lower Utica Canal, just upstream of the Murphys Forebay, is the S57 Gaging Station. This station is also connected to Utica's SCADA system and provides real-time flows and trending. These two gaging stations are the primary data measurement points that Utica has used to identify water losses is the Lower Utica Canal. However, since they are so far apart, it makes it difficult to understand where water losses are occurring. Utica's goal is to increase efficiency in this section of canal. To further this goal, Utica is requesting funds to install two gaging stations at strategic points along the 13.5-mile canal that will provide additional flow data and guide Utica's targeted shotcrete lining projects in the years to come.



Construction Description

The new gaging stations Utica plans to install are in remote areas with no public power supply nearby. They will consist of 36” vertical corrugated metal tube or “stilling well” that will be installed adjacent to the open canal, set 4-feet underground and 6-feet above ground. The corrugated pipe will be set in a concrete pad with drain. Inside the corrugated pipe above the water level, a water logger will be installed, along with a Sunsaver PV system controller, and a digital data encoder with display that is mounted on an encoder pulley tape and set of hooks. The water logger and encoder will be connected to a micro-PC that is connected to Utica’s SCADA system via a jetpack that communicates with cellular service provided by Verizon. All electronics will be powered by an on-site solar system powered by a 100-watt solar panel, which charges a deep cycle Optima Blue Top 12-volt battery. There will be a small, low-head dam in the canal that provides a consistent water level to improve the accuracy of flow measurements. The existing rough, gunite-covered canal upstream of the new gaging stations will be removed and replaced with carefully desil.lgned concrete that creates a consistent and predictable flow of water that can be accurately measured. There is a direct connection from the gaging station to the canal that provides a water elevation through an encoder and data logger that is transmitted into Utica’s SCADA system for real time monitoring and trending. A concrete truck will be needed to pour new concrete for the site and overlay portions of canal near the new station. An excavator will be rented to prepare the site for the new gaging stations.

Materials/Equipment

Gaging Stations material and equipment will require the following:

- Install a 36” Corrugated Metal Pipe Stilling Well outside existing ditch (4’ in ground and 6’ above ground)
- Concrete bottom with drain
- Water Logger - 500XL series
- Encoder model 3342HP with display
- Encoder pulley, 25 ft of pulley tape and set of hooksets, float, & counterweight
- Sunsaver (SS-10-12v) PV system controller (Morningstar product)
- Deep Cycle Optima Blue Top 12-volt battery
- watt solar panel (Renogy Slim Line)
- Jet pack for cellular connection
- Raspberry PIE micro PC for VPN control and data acquisition remotely
- 10 feet of corrugated pipe 30" minimum (need to fabricate a top to keep water out and a door to access inside for calibrations and protect electronics)
- Shelf needs to be inserted to support encoder and backplate to mount components
- Concrete truck, pumper truck
- Excavator

Evaluation criteria

E.1.1. Evaluation Criterion A – Project Benefits

Summary

The anticipated benefits of the project include improvement in water supply measurement and reliability. The project will modernize existing infrastructure to increase efficiency, address water reliability, and make more water available, along with increasing flows to Utica's two hydroelectric facilities, which generate renewable power.

- *Clearly explain the anticipated water management benefits to the Category A applicant's water supply delivery system and water customers.*

The Lower Utica Canal is 13.5 miles long and is the sole public water supply system for 10,000 people who live in Avery, Murphys, Douglas Flat, Vallecito, Six Mile Village, Carson Hill, and Angels Camp. In addition to the residential, commercial, industrial, and agricultural water needs, Utica's water supply is relied on by local and state fire districts to protect the communities they serve. Considering the community and emergency response reliance on Utica's system, ensuring the most accurate monitoring of water flow and reduction of seepage, will increase the amount of water that can be used by residents, businesses, farmers, and emergency response personnel.

- *Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers.*

During times of drought, Utica's water supply is restricted substantially, and supply cannot meet the community's demand. This creates the need to implement voluntary and/or mandatory water conservation orders. In fact, as of April 2022, Utica's customers were subject to a 15% water conservation declaration. To reduce negative consequences to the community due to water lost, Utica actively seeks to increase efficiency of its Lower Utica Canal, so water is available to the community Utica serves.

Broader Benefits: Will the project improve broader water supply reliability at subbasin or basin scale.

- *Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.*

This project will provide Utica with much more detailed water flow data for the Lower Utica Canal by adding two gaging stations, which directly impacts Utica's partners – the Union Public Utility District and the City of Angels Camp. This new data will help Utica's water system operators provide deliveries to the communities we serve with increased accuracy and efficiency. This project will also serve as a blueprint for other water agencies in the region to add gaging stations to their systems and increase efficiency.

- *Will the proposed project positively impacts/benefit various sectors and economies within the applicable geographic area (e.g., impacts to agriculture, environment, recreation, and tourism)? Please explain.*

The water Utica conveys through its Lower Utica Canal continues along the system into Murphys Creek, which is used by thousands of people each year. The creek flows through Murphys Community Park, which hosts several special events and the park is used daily by both locals and tourists. The creek is the main attraction in the park, especially during the summer months. Reducing seeping in the system leading to this park, will allow more water to flow through the park. Numerous farmers and ranchers rely on Utica's system for irrigation water. They are the first to be cut back during droughts, and by increasing Utica's conveyance system efficiency, these farmers and ranchers are more likely to receive additional water during dry years. Utica maintains environmental flows in Mill Creek and Angels Creek, which vary depending on how much water is available. Reducing seepage and other water loss and increasing efficiency will increase the amount of water in these natural riparian areas.

- *Will the project complement work being done in coordination with NRCS in the area (e.g., the area with a direct connection to the Authoritys water supply)? Please explain.*

There is not a nexus with NRCS.

- *Will the project help address drought conditions at the sub-basin or basin scale? Please explain.*

As of April 2022, Utica's customers are subject to a 15% conservation declaration. This project has a direct impact on helping lessen the impacts of drought on the community Utica serves. Farmers and ranchers rely on Utica's system for irrigation water and are the first to be cut back during droughts. By improving Utica's conveyance system efficiency, these farmers and ranchers are more likely to receive additional water during dry years. Utica is focused on increasing efficiency in its conveyance system to provide the maximum amount of water to the community. The projects Utica is proposing will increase efficiency every day, but these efficiencies are especially important during drought when demand is greater than supply.

E.1.2. Evaluation Criterion B—Planning Efforts Supporting the Project

The proposed shotcrete lining project and installation of additional gaging stations are projects identified in Utica's 2020-2025 Capital Improvement Plan and its 2021 Local Hazard Mitigation Plan.

Describe to what extent the proposed project is supported by the identified plan.
ddress the following:

- *Is the project identified specifically in the planning effort?*

Shotcrete overlay on the Lower Utica Canal and the addition of gaging stations to increase water measurement accuracy are specifically identified in several of Utica's planning documents including:

- Utica Water and Power Authority Capital Improvement Plan (CIP): 2020-2025
- Union Public Utility Authority and Utica Water and Power Authority Multi-Jurisdictional Hazard Mitigation Plan 2021 (MJHMP)
- Utica Water and Power Authority Fiscal Year 2022-23 Budget

- *Explain whether the proposed project implement a goal or address a need or problem identified in the existing planning effort?*

The proposed projects address a clearly identified need to reduce seepage in the Lower Utica canal by increasing efficiencies and adding additional gaging stations, as identified in Utica's CIP and MJHMP. Funding for the local match needed for these projects has been allocated in the FY 2022-23 budget.

- *Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.*

These projects have been identified as priorities through an iterative process that involved, Utica staff, the Board of Directors, and outside engineering consultants. While there are other projects also listed in Utica's planning documents, the goal to increasing efficiency and add additional water flow data-gathering collection points in the Lower Utica Canal, are high priorities for Utica as an organization.

E.1.3. Evaluation Criterion C—Implementation and Results (20 points)

Utica will be able to immediately proceed with the proposed project upon entering into a financial assistance agreement with the Reclamation.

- *Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.*

Task 1: Shotcrete Lining and Construction (October/November 202 , October/November 2024)

The purpose of this task is to perform all necessary shotcrete lining construction work, which includes but is not limited to: Prepare scope of work of outside contractors and get cost estimates. Prepare pre-construction seepage analysis report. Purchasing of materials. Prep access to project site. Performing field engineering work, including construction surveying, geotechnical construction testing, and quality assurance and quality control monitoring. Performing earth work, including fleet mobilization, excavation, dirt hauling, grading, and alignment. Installing geofabric liner, steel formwork, and

expansion joints, and spraying and curing shotcrete, performing final grading, and fleet demobilization

Expected Deliverables: [l] Seepage test data, (2) concrete test data, (3] summary of bid proposals received for supplies and materials, and construction records for [4] equipment use and [5] labor

Task 2: Gage Station Installation (October/November 2023, October/November)

The purpose of this task is to perform all necessary construction work to install Pennsylvania Gulch and Rattlesnake Hill Gaging Stations. Work will include but is not limited to: Prep location of sites surrounding gaging stations.
Performing tests before and
after construction work. Bidding and purchasing of materials. Performing field engineering work, designing, including construction surveying, geotechnical construction testing, and quality assurance and quality control monitoring. Performing earth work, including fleet mobilization, excavation, dirt hauling, grading, and alignment. Installing steel formwork, concrete work. Install gaging stations.

Expected Deliverables: (1) station test data, (2) bidding of supplies and materials, and construction records for [3] equipment use and [4] labor

Task 3: Reporting and Grant Administration (March 2023-March 20 5)

The purpose of this task is to perform grant administration, periodic reporting, and technical assistance work necessary to complete the project. Work includes but is not limited to: Developing SF-425 Federal Financial Reports on a semi-annual basis and a final financial performance report as specified in Section F.3.I. of the FY2022 WaterSMART SWEP NOFO and/or as required by a resulting award contract from Reclamation. Developing Interim Performance Reports as specified in Section F.3.2. of the FY2022 WaterSMART SWEP NOFO and/or as required by a resulting award contract

from Reclamation. Developing a Final Performance Report as specified in Section F.3.3. of the FY2022 WaterSMART SWEP NOFO and/or as required by a resulting award contract from Reclamation. Completing project closing requirements as specified in a resulting contract with Reclamation

- *Describe any permits that will be required, along with the process for obtaining such permits.*

Per Utica's Federal Energy Regulatory Commission (FERC) license, no permits or approvals are required for the proposed Utica Water and Power Authority The Lower Utica Canal Lining and Gaging Stations Project. The project areas are exempt from these requirements.

- *Identify and describe any engineering or design work performed specifically in support of the proposed project.*

When installing shotcrete overlay, Utica uses specifications from its Chief Dam Safety Engineer's, per the construction project outline. The preliminary design for the proposed gaging stations was completed by Weber Ghio and Associates engineering firm.

- *Describe any new policies or administrative actions required to implement the project.*

No new policies or administrative actions are required to implement the proposed project.

- *Describe the timeline for completion of environmental and cultural resource compliance. Was the timeline for completion of environmental and cultural resource compliance discussed with the local Reclamation office*

The shotcrete lining and gaging station projects both fall within Utica's Federal Energy Regulatory Commission (FERC) license Historic Management Properties Plan (HMPP) and are part of regular maintenance of the system, therefore a local cultural resources historian will be consulted on these projects in accordance with the plan.

E.1.4. Evaluation Criterion D—Nexus to Reclamation (5 Points)

- *Is the proposed project connected to a Reclamation project or activity? If so, how?*

Utica's 27-mile-long water conveyance system and reservoirs are on the south face of the North Fork Stanislas River Canyon, which is a major watershed draining into New Melones Reservoir – a U.S. Bureau of Reclamation facility. Water in Utica's system that is not consumed by residential, commercial, or agricultural customers, is used to make hydropower and returned to the natural watershed of Angels Creek, which also runs into New Melones Reservoir. Increasing the efficiency of Utica's Lower Utica Canal system will increase the amount of water that flows into Melones.

E.1.5. Evaluation Criterion E—Presidential and Department of the Interior Priorities (10 points)

.1.5.1. Sub-criterion No. E1. Climate Change

- *Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.*

Per Utica's Multi-Jurisdictional Hazard Mitigation Plan, climate change is identified as one of the top three most critical threats Utica is facing. Due to climate change, there has been severe drought, increased wildfires in the region, tree mortality, decreased water supply, and highly volatile weather patterns. In addition to providing consumptive water supply, Utica's water is relied upon by state and local fire protection districts to fight wildfires. Keeping wildfires small in our mountainous region is critical to reducing greenhouse

gases that are a result of wildfires. The water flowing through Utica's system is used to power two small hydroelectric powerhouses, which increase the resiliency of the electrical grid with renewable energy.

- *Does this proposed project strengthen water supply sustainability to increase resilience to climate change? Does the proposed project contribute to climate change resiliency in other ways not described above?*

Climate change is impacting the reliability of Utica's water supply making it even more important to have the most efficient use of the limited water resources available. Any additional water in Utica's system is critical in mitigating all the climate change related challenges, including drought, tree mortality, wildfires and volatile weather patterns.

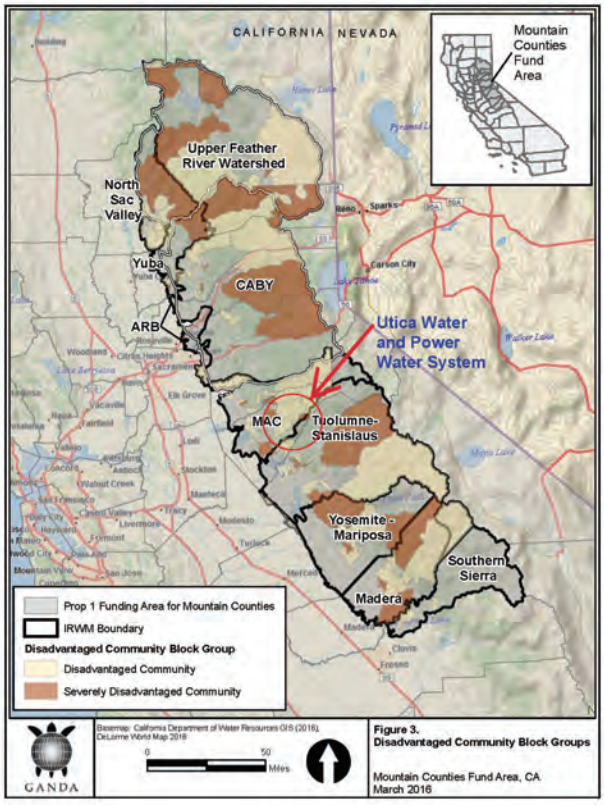
E.1.5.2. Sub-criterion No. E2. Disadvantaged or Underserved Communities

- *Will the proposed project serve or benefit a disadvantaged or historically underserved community? Benefits can include, but are not limited to, public health and safety by addressing water quality, new water supplies, or economic growth opportunities.*

Utica provides the sole water supply to 10,000 people in Calaveras County, many of whom are classified as disadvantaged or severely disadvantaged by the California Department of Water Resources (see map below). Utica's system provides clean and safe water supply to these communities.

- *Please describe in detail how the community is disadvantaged based on a combination of variables that may include:*

The disadvantages communities within Utica's water service area include, portions of Murphys, Douglas Flat, Vallecito, Six Mile Village, and Angels Camp. The characteristics of these communities include low income, high unemployment and underemployment, distressed neighborhoods, high-cost housing, limited access to public transportation, high transportation cost, disproportionate impacts from climate change, lack of access to healthcare.



E.1.5.3. Sub-criterion No. E.3. Tribal Benefits

- *Does the proposed project directly serve and/or benefit a Tribe Will the project improve water management for a Tribe?*

The proposed projects do not directly serve, benefit, or provide water to a Tribe.

- *Does the proposed project support Tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety by addressing water quality, new water supplies, or economic growth opportunities?*

The proposed projects will not support Tribal resilience to climate change and drought and will not provide other Tribal benefits.

Overlap or Duplication of Effort Statement

The proposal submitted for The Lower Utica Canal Lining and Gaging Stations Project does not duplicate any proposal or project submitted for funding consideration to any other potential funding source.

Conflict of Interest Disclosure

There are no actual or potential conflict of interest that exists at the time of submission of this application.

Uniform Audit Reporting Statement

Utica Water and Power Authority will not expend $750,000 in U.S. dollars or more in Federal award funds in Fiscal Year 2022-23, starting July 1, 2022, and ending June 30, 2023.

Certification Regarding Lobbying

Utica Water and Power Authority will not ask for more than $100,000 in federal funding.

II. Project Budget

Funding plan and letters of funding commitment

The Utica Water and Power Authority has sufficient revenues to provide a 51% cost share for the projects. Utica's funding commitment was established via Resolution from the Authority Board of Directors and is available for reference on VI. Official Resolution. There are no additional funding partners for this project.

The proposed projects include budgeted costs that are representative of actual construction costs for shotcrete lining projects and gaging station installations that have already been completed for Utica.

Funding plan:

The sources of the non-Federal cost-share contribution for the project, include $88,271.10 of reserve accounts. Utica Water and Power Authority will be responsible for $ 88,271.10 amount in labor, employee benefits, administration, and project management.

Budget proposal

Below is the total project cost with all the allowable items of costs, including all required cost sharing and voluntary committed cost sharing, there are no third-party contributions necessary to complete the project.

Table 1. Summary of Non-Federal and Federal Funding Sources

FUNDING SOURCES	AMOUNT
Non-Federal Entities	
Labor and employee benefits	$88,271.10
Non-Federal Subtotal	$88,271.10
REQUESTED RECLAMATION FUNDING	$83,029.20

Listed below in Table 2 are the items of cost, including those that will be contributed as non-Federal cost share by the applicant (required and voluntary), there are no third-party in-kind contributions, and the cost that will be covered using the funding requested from Reclamation. There are no requested pre- award costs.

Table 2. Total Project Cost Table

SOURCE	AMOUNT
Costs to be reimbursed with the requested Federal funding	$83,029.20
Costs to be paid by the applicant	$88,271.10
Value of third-party contributions	$0.00
TOTAL PROJECT COST	$171,300.30

A Budget Proposal is shown in Table 3. Unit costs are provided for all budget items, including the cost of services and other work to be provided by consultants and contractors.

Table 3. - Budget Proposal

BUDGET ITEM DESCRIPTION	COMPUTATION		Quantity Type	TOTAL COST
	$/UNIT	Quantity		
Salaries and Wages				
Kyle Rasmussen	$38.90	50	Labor	$5,835.00
Sebastian Martz	$30.39	310	Labor	$9,420.90
Frank Fields	$45.10	200	Labor	$9,020.00
Joel Metzger	$61.73	400	hours	$24,692.00
Grant Administrator	$75.00	200	hours	$15,000.00
Fringe Benefits				
Kyle Rasmussen	$19.10	50	hour	$2,865.00
Sebastian Martz	$20.22	310	hour	$6,268.20
Frank Fields	$23.29	200	hour	$4,658.00
Joel Metzger	$26.28	400	hour	$10,512.00
Supplies and Materials				
Task 1: Shotcrete Canal Lining Supplies/Materials	$38,625.00	,800 ft	Supplies and Materials	$38,625.00
Task 2: Gaging Stations Supplies/Materials	$15,029.20	2 Stations	Supplies and Materials	$15,029.20
Equipment				
Task 1: Shotcrete Canal Lining Pump Truck	$3,000.00	6	Equipment per day	$18,000.00
Task 2: Gaging Stations Excavator	$500.00	4	Equipment per day	$2,000.00
Task 2: Gaging Stations Concrete Pump Truck	$3,000.00	2	Equipment per day	$6,000.00
Contractual/Construction				
CDF Crew	$225.00	5	Labor per day	$3,375.00
TOTAL DIRECT COSTS				$171,300.30
Indirect Costs				
TOTAL INDIRECT COSTS				$0.00
TOTAL PROJECT COSTS				**$171,300.30**

Budget narrative

The budget narrative provides a discussion of, or explanation for, items included in the budget proposal. Costs, including the valuation of third-party in-kind contributions, must comply with the applicable cost principles contained in 2 CFR Part §200. In addition, please identify whether the budget proposal includes any project costs that may be incurred prior to award. For each cost, describe:

Salaries and Wages

All Project Tasks:
Joel Metzger is the General Manager of Utica Water and Power Authority and will be responsible for overseeing all construction projects, responsible for managing staff and personnel, will manage the technical assistance tasks including data collection and analysis, site photography, all grant compliance work, and site monitoring. Mr. Metzger has experience in managing federal and state grant-funded projects, including projects funded by FEMA/Cal OES and Cal Fire, USDA. It is expected that Mr. Metzger will contribute 400 hours to the project at a rate of $61.73.

Task 1: Shotcrete Lining Construction

Kyle Rasmussen is the Water Conveyance Supervisor and has supervised the construction of dozens of Authority canal lining projects. Mr. Rasmussen will be responsible for the supervision of all construction work personnel, project management tasks, planning and coordination, quality control, and cost and equipment use reporting. It is expected that Mr.Rasmussen will contribute 150 hours to the project at a rate of $38.90.

Sebastian Martz is the Conveyance Operator and has participated and led numerous Authority canal lining projects on his 15 years with Utica. Mr. Martz will be responsible for prep work, labor of the lining project and managing additional labor help during the shotcrete installation. It is expected that Mr. Martz will contribute 150 hours to the project at a rate of $30.39

Task 2: Gaging Station Installation

Frank Fields is the Operations and Maintenance Superintendent and has successfully led the construction of installing two other Gaging Stations for Utica during his 10 years with the agency. Mr. Fields will be responsible for the oversight of all design and plans, purchasing, construction work personnel, project management tasks, planning and coordination, quality control, and cost and equipment use reporting for installing the gaging stations. It is expected that Mr. Fields will contribute 200 hours to the project at a rate of $45.10.

Sebastian Martz is the Conveyance Operator and assists Mr. Fields on projects. Mr. Martz will be responsible for manual labor while installing the additional Gaging

Stations. It is expected that Mr.Martz will contribute 160 hours to the project at a rate of $30.39

Task 3: Reporting and Grant Administration

Grant Administrator will assist Joel Metzger in any grant administrative tasks required and requested. Tasks include project management, planning and coordination, grant reporting and reimbursement and reporting. It is expected that the Grant Administrator will contribute 200 hours to the project at a rate of $75.00.

Fringe Benefits

The in-kind fringe benefits for Authority personnel involved in this project were computed on a “Fringe” basis and were derived by subtracting the hourly salary rate for designated personnel from the loaded value per hour. A rate of 30% was used to approximate fringe costs.

Certification of Labor Rates

The labor rates of identified personnel included herein are representative of the actual labor rates of personnel bearing the same title. Additional verification per employee assigned to the project is available as needed pursuant to an award contract with Reclamation.

Travel

No travel will be necessary.

Equipment

Utica will contract for concrete pumping truck to overlay the canal with shotcrete and a pump truck will also be used for the installing the new gaging stations. The rate for the pump truck and crew is $3,000 a day. For the shotcrete canal lining project, it will take six days of the pump truck and for the gaging station it will be two days. For the gaging station project, Utica will rent an excavator for four days, at a rate of $500 per day.

Materials and Supplies

The proposed costs and itemization for materials and supplies are representative of costs and quantities from comparable shotcrete lining construction and gaging station projects completed by Utica. Utica will purchase the needed construction materials and supplies by soliciting bids following competitive procurement laws, purchasing policies, and applicable federal regulations. Historical bid and pricing information is available upon request.

Contractual

California Department of Forestry in coordination with the California Department of Corrections and Rehabilitation will provide a crew that is contracted out with Utica, and they will assist in various manual labor tasks necessary for the completion of the shotcrete canal lining project. This labor will include work to get to the project site, prep work to prepare for the shotcrete day and on the day of the shotcrete overlay. The crew will cost $225 per day for 15 days.

Environmental and Regulatory Compliance Costs

If required proposed costs for environmental and regulatory compliance costs are representative in estimated reporting hours for the General Manager or Grant Administrator.

Indirect Costs

Indirect costs are not included as part of the project. All costs associated with the project, including administrative costs, are accounted for separately by Utica.

III. Environmental and Cultural Resources Compliance

H.1 Environmental and Cultural Resource Considerations

Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

Post-construction environmental impacts will be positive. There will be a reduction in wind-borne dust from the partly earth-lined canals, which will be shotcrete-lined. Maintenance activities will be reduced once canal lining projects are complete, thereby reducing dust generation, equipment noise and fuel consumption. The gaging station will be installed where there is existing Utica infrastructure, so there are no new expected disturbances to be created by this project. Work done in preparation for the canal lining and gaging station projects will provide resources and access to these areas and will add resources that could protect these areas and habitats in the case of future wildfires.

Special attention will be given to the following items during the construction phase: dust abatement, noise impacts, no clearing will be done except clearing brush within right-of-way of the Authority, mechanical compaction of the earth to prevent any damage to adjacent property from earth movement.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

There are no anticipated impacts to threatened and endangered species by the proposed project.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States"? If so, please describe and estimate any impacts the proposed project may have.

There are no surface waters inside the project boundaries that fall under CWA jurisdiction.

When was the water delivery system constructed?

The Utica Water and Power Authority's canal system was built over a long period of time beginning in 1852, with major improvements made in the 195 s and 1980s.

Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

Irrigation system features such as headings and turnouts are continuously modified as part of maintenance operations. No adverse impacts to individual features of the irrigation system are anticipated as part of the proposed projects.

Are any buildings, structures, or features in the irrigation Authority listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.

In Utica's FERC license, there is a Historic Management Properties Plan (HMPP), which lists sections of the canal and areas of the water conveyance system that are protected historically. This project is within the approved maintenance activities listed in the HMPP and will not have the potential to cause negative effects to historic properties.

Are there any known archeological sites in the proposed project area?

There are no known archeological sites in the proposed project area.

Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?

The proposed project would not have a negative impact on minority populations or low-income communities.

Will the proposed project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on tribal lands?

There are no limits to access and ceremonial use of Indian sacred sites or adverse impact tribal lands.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

There are no anticipated contributions to the introduction, continued existence, or spread of noxious weeds or non-native invasive species.

H.1.1 National Environmental Policy Act

The Utica Water and Power Authority has a Federal Energy Regulatory Commission (FERC) license for the Utica Project P-2019, which provides Utica with authorization to perform standard maintenance to its system within the license guidelines. Due to the FERC license, this project is excluded from CEQA and NEPA.

H.1.2 National Historic Preservation Act

In Utica's FERC license, there is a Historic Management Properties Plan (HMPP), which lists sections of the canal and areas of the water conveyance system that are protected historically. This project is within the approved maintenance activities listed in the HMPP and will not have the potential to cause negative effects to historic properties.

H.2 Endangered Species Act

The Lower Utica Canal Lining and Gaging Stations Project will be done in an area with no endangered or threatened species or designated critical habitat.

IV. Required Permits or Approvals

Per Utica's FERC license, no permits or approvals are required for the proposed Utica Water and Power Authority The Lower Utica Canal Lining and Gaging Stations Project. The gunite canal that is the area of the proposed project, and the areas for the additional gaging stations are exempt from these requirements.

TOM McCLINTOCK
THE FIFTH DISTRICT, CALIFORNIA

2312 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
PHONE: 202-225-2511

2300A GATEWAY PLAZA, SUITE 245
FOLSOM, CA 95630
PHONE: 916-985-8586

TOMMCCLINTOCK.HOUSE.GOV

COMMITTEE ON THE JUDICIARY
SUBCOMMITTEE ON
RANKING MEMBER

SUBCOMMITTEE ON
AND CIVIL RIGHTS

COMMITTEE ON NATURAL RESOURCES
SUBCOMMITTEE ON

SUBCOMMITTEE ON

COMMITTEE ON THE BUDGET

Congress of the United States
House of Representatives
Washington, DC 20515–0504

April 27, 2022

Camille Calimlim Touton
Commissioner
Bureau of Reclamation
1849 C Street NW
Washington DC 20240-0001

Dear Commissioner Camille Calimlim Touton,

I write in support of Utica Water and Power Authority's application for the WaterSMART Water and Energy Efficiency Grant Program intended to encourage diverse stakeholders to form local solutions to address their water management needs.

Utica Water and Power Authority's system provides water supply to more than 10,000 citizens across the northern California region including residential, commercial, and agricultural customers. If awarded, it is my understanding that Utica Water and Power Authority will use this grant to fund the Lower Utica Canal Lining and Gaging Stations Project which currently experiences water losses of up to 5%. Specifically, this project aims to install two additional gauging stations to provide additional water flow measurement data to identify where water losses are occurring. This project intends to improve the efficiency of the Lower Utica Canal which is intended to provide the community with a more reliable water supply, reduce the impacts of drought, and increase water availability for fighting wildfires.

As the stated purpose of the WaterSMART Water and Energy Efficiency Grant is to fund projects that conserve and use water more efficiently, increase renewable energy production, enhance drought resilience, and mitigate risk of future water conflict, I believe Utica Water and Power Authority's application is consistent with the purpose of this grant and highly competitive on its merits.

Thank you for your consideration. Should you have any questions, please contact Kelsey Gaudette in my office at (202) 225-2511.

Sincerely,

Tom McClintock

COMMITTEES
VICE CHAIR: APPROPRIATIONS
VICE CHAIR: GOVERNMENTAL ORGANIZATION
INSURANCE
HEALTH
WATER, PARKS AND WILDLIFE

Assembly
California Legislature

FRANK BIGELOW
ASSEMBLYMEMBER, FIFTH DISTRICT

STATE CAPITOL
P.O. BOX 942849
SACRAMENTO, CA 94249-0005
(916) 319-2005
FAX (916) 319-2105

DISTRICT OFFICES
460 SUTTER HILL ROAD, SUITE C
SUTTER CREEK, CA 95685
(209) 267-0500

730 NORTH I STREET, SUITE 102
MADERA, CA 93637
(559) 673-0501

2441 HEADINGTON ROAD
PLACERVILLE, CA 95667
(530) 295-5505

April 25, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,

I am writing to express my support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program.

I have the honor of representing Calaveras County in the California State Assembly. I am supportive of my rural district accessing funding for vital water projects that help my constituents. Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.

Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 13.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.

I appreciate your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County.

Should you have any additional questions, please feel free to contact my Capitol Office at 916-319-2005.

Sincerely,

Frank Bigelow

Assemblyman Frank Bigelow
5th District in California

Printed on Recycled Paper

UNION PUBLIC UTILITY DISTRICT
339 MAIN STREET
MURPHYS, CA 95247
(209) 728-3651
WWW.UPUDWATER.COM

April 25, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,
I am writing to express Union Public Utility District (UPUD) support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program.

UPUD is a rural domestic and irrigation water supplier who receives water deliveries from UWPA.

Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.

Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 13.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.
Union Public Utility District appreciates your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County.

Should you have any additional questions, please feel free to contact me at 209-728-3651.

Sincerely,

Summer Nicotero
General Manager
Union Public Utility District

STATE F CALIFORNIA —NATURAL RESOURCES AGENCY Gavin C. Newsom, Governor

DEPARTME T OF F EST Y AND FI E OTECTI
Tuolumne-Calaveras Unit
785 Mountain Ranch Road
SAN ANDREAS, CA 9 9
(209) 7 -383
(09) 7 -1959 - fax
Website: www.fire.ca.gov

April 6, 022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,

I am writing to express support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program.

As the Unit Chief for the CAL FIRE Tuolumne – Calaveras Unit, I work closely with our stakeholders and cooperators to ensure collaboration occurs in a comprehensive approach to addressing the threat and response to wildfire, and public service to the communities within our area.

Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by firefighting helicopters to support water dropping capabilities to fight wildfires when they occur.

Utica's water conveyance system includes nearly 5 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 3.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.

I appreciate your consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the communities in Calaveras County.
Should you have any additional questions, please feel free to contact me at (209) 754-3831.

Sincerely,

Nick Casci
Unit Chief
CAL FIRE
Tuolumne - Calaveras Unit

County of Calaveras
Office of E ergency Services
John K. Osbourn, M.A. Director
891 Mountain Ranch Road San ndreas, 5249
20 .754.28 0

April ,

Ms. Janeen Koza, Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,

I am writing to express the Calaveras County ffice of Emergency Services' (CC ES) support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program. As the agency responsible for county-wide disaster response, as well leading area hazard mitigation projects, we strongly encourage projects such as Utica's to make our county more resilient! Utica is a proven partner to the ffice of Emergency Services and is dedicated to the improvement of their water infrastructure.

Utica's water system provides the sole water supply to more than , 00 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.

Utica's water conveyance system includes nearly miles of earthen canals lined with concrete, some dating back to the 850s. This funding request focuses on . miles of this system called the Lower Utica Canal, which experiences water losses of up to %. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.

The CCOES appreciates your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County. Should you have any additional questions, please feel free to contact me at 9- 86-9 87 or josbourn@co.calaveras.ca.us

Sincerely,

ANGELS CAMP
CALIFORNIA

FIRE DEPARTMENT

CITY OF ANGELS **PO Box 667,** 1404 Vallecito Road, Angels Camp, CA 95222 P: (209) 736-4081 F: (209) 736-2861

April 26, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,
I am writing to express City of Angels Camp Fire Department support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program.
The City of Angels Camp Fire Department provides fire, rescue, and ems response to the entire City of Angels Camp as well the surrounding County areas. The Utica water system is vital to our mission of protecting the residents in the Angels Camp area.
Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.
Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 13.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.
City of Angels Camp Fire Department appreciate your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County.
Should you have any additional questions, please feel free to contact Nathan Pry 9-736-4081 nathanpry@angelscamp.gov

Sincerely,

athan Pry, Fire Marshal/Deputy Fire Chief
City of Angels Fire Department

Murphys Fire Protection District

April 25, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,
My name is Bill Fullerton, I am the Fire Chief for the Murphys Fire Protection District, I am writing to express our support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program. The Murphys Fire Protection District provides fire and EMS services for the communities of Murphys, Douglas Flat and Vallecito. This grant would assist our agency greatly in being able to provide safe, efficient and reliable water deliver for both structure and wildland fires.

Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.
Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 13.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.
The Murphys Fire Protection District would greatly appreciate your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County. Should you have any additional questions, please feel free to contact me at 209-728-3864.

Sincerely,

37 JONES STREET * P.O. BOX 1260 * MURPHYS, CALIFORNIA 95247
PHONE: 209-728-3864 FAX: 209-728-2951
Email: murfirc@comcast.net

Ebbetts Pass Fire District

April 25, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,

I am writing to express the Ebbetts Pass Fire District support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request for funding under the WaterSMART Water and Energy Efficiency Grants program.

The Ebbetts Pass Fire District is responsible for approximately 225 square miles that includes a population of 5,000 – 8,000 full time residents. It is the responsibly of the Fire District to provide life saving services including advance life support treatment and transport, fire suppression of both structure and wildland fires, and swift water rescue.

Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.

Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1850s. This funding request focuses on 13.5 miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth in the region.

The Ebbetts Pass Fire District appreciate your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County.

Should you have any additional questions, please feel free to contact Mike Johnson at 209 795-1646

Sincerely,

Mike Johnson
Fire Chief, Ebbetts Pass Fire District

Merita Callaway
Calaveras Board o Supervisors
Sup rvisor, District 3

April 25, 2022

s. Janeen oza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Re: Utica Water and Power Authority (Utica)
WaterSMART Grant Program

s. Koza:

The Utica system is critical to the residents, businesses and agricultural communities I represent in Murphys, Douglas Flat and Vallecito. The WaterSMART grant will be an asset to saving water.

Besides its historical significance going back to 1850, Utica provides water to hundreds of fire hydrants and Cal Fire during wildfires. The WaterSMART grant request focuses on 13.5 miles of a 25 mile canal system which has a water loss of approximately 5%, critical in these times of drought.

I fully support Utica's grant application for water efficiency and hope the Bureau of Reclamation will support it too.

erita Callaway

Cc: Calaveras District 4 Supervisor Amanda Folendorf

SUPERVISOR – DISTRICT 4 **AMANDA FOLENDORF**

CALAVERAS COUNTY GOVERNMENT CENTER
891 MOUNTAIN RANCH ROAD
SAN ANDREAS, CALIFORNIA 9 2 49-9 09
(209) - 0 or (209)286-90 0

April 25, 2022

Ms. Janeen Koza
Grants Manager
Financial Assistance Support Section
United States Bureau of Reclamation

Dear Ms. Koza,

As a previous Angels Camp Mayor and previous UWPA Chairman, I am keenly aware of critical service Utica's water conveyance system provides to the residents of this community. I support for the Utica Water and Power Authority's (Utica) Lower Utica Canal Lining and Gaging Stations Project request under the WaterSMART Water and Energy Efficiency Grants program.

Utica's water system provides the sole water supply to more than 10,000 people who live in Murphys, Douglas Flat, Vallecito, and Angels Camp, in Calaveras County, CA, in the foothills of the Sierra Nevada mountains one hour southeast of Sacramento. In addition to providing water for residential, commercial, and agricultural customers, Utica provides the sole source of water for hundreds of fire hydrants in these communities. Utica's water storage reservoirs are also used by Cal Fire's helicopters to fill buckets to fight wildfires.
Utica's water conveyance system includes nearly 25 miles of earthen canals lined with concrete, some dating back to the 1 0s. his funding request focuses on 1 . miles of this system called the Lower Utica Canal, which experiences water losses of up to 5%. Improving the efficiency of this system would provide the community with a more reliable water supply, reduce the impacts of drought, increase water available for fighting wildfires, and bolster economic growth.

I appreciate your full and fair consideration of the application submitted by the Utica Water and Power Authority for these water efficiency projects that would be so beneficial to the community in Calaveras County.

Should you have any additional questions, please feel free to contact me at afolendorf@co.calaveras.ca.us or 209-28 -90 0.

Sincerely,

Amanda Folendorf, Calaveras County Supervisor District 4

VI. fficial Resolution

The following is the official resolution adopted by Utica's Board of Directors.

RESOLUTION NO. 22-06

A RESOLUTION OF THE BOARD OF DIRECTORS OF TH UTICA WAT R AND POWER AUTHORITY

AUTHORIZING THE G N RAL MANAGER TO SUBMIT THE UTI A WAT R AND POWER AUTHORITY LOWER UTICA CANAL LINING AND GAGING STATION PROJ T GRANT APPLICATION TO THE U.S. BUREAU OF RECLAMATION WAT RSMART GRANTS PROGRAM

WH R EAS, the Utic Water nd Power Authority (Utica) provides the sole w ter supply for more than 0,000 people in Calaveras County, CA, nd operates 27-miles-long water conveyance system consisting of concrete-lined can ls; a nd

WH R EAS, Utica is committed to operating its water conveyance system in the most efficient m nner possible, and h s identified a section of can l that needs gaging station improvements and canal lining to reduce w ter seepage; and

WH R EAS, can l lining and gaging station projects are identified in Utica's Capital Improvement Pl n and Multi-Jurisdictional H zard Mitigation Pl n; nd

WH R EAS, Utica staff has prepared gr nt application for submission to the United States Bure u of Reclamation's W terSMART Water nd Energy Efficiency Gr nts progr m; and

WH R EAS, Utica h s the fin ncial cap bility nd commits to providing the amount of funding nd/or in-kind contributions specified in the funding plan included in the gr nt application.

NOW, THEREFORE, E IT RESOLVED, that the Utica Board of Directors supports The Lower Utica Canal Lining and Gaging Stations Project gr nt pplication and authorizes the Gener l Man ger to submit the application and take any dministrative ction required to complete and submit the pplication to the United States Bureau of Reclamation W terSMART W ter Energy Efficiency Grants progr m, including working with Reclamation to meet established deadlines for entering into a grant or cooper tive agreement to be approved by Utica's Bo rd of Directors, if the grant is awarded.

PASSED AND ADOPT by the Board of Directors of Utica Water and Power Authority, this 26th day of April 022 by the following vote:

AYES: Directors Chick, Schirato, Davis- erndon, Quincy, Conrad
NOES: None
ABSENT: N ne
ABSTAIN: None

Ralph Chick

Ralph Chick, Board Chair

ATTEST:

Lori Karnes

Lori Karnes, Clerk f the Board