

Upper Feather River Integrated Regional Water Management Plan Proposition 50 Grant Agreement No. 4600007650

Project Performance & Monitoring Report

Project No./Name: Greenville Water and Sewer System Repairs Project

Project Proponent: Indian Valley Community Services District

Progress Report No.: 1

Reporting Period: 2016-2018

Date of Post-Performance Report: 4/25/2019

Project Specific Output Signatures			
	Yes	No	Comments
Has the project been operated and maintained in accordance with all state and federal permits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Files are available at the IVCSO office.
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
Project Specific Outcome Indicators			
	Yes	No	Comments
How many feet/miles of water mains were replaced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See narrative below.
How many new water meters were installed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
How many new fire hydrants were installed and do they have sufficient flow capacity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two new fire hydrants were installed. The Project provided sufficient flow capacity. See narrative below.
Has implementation of the project reduced overall operating costs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did you meet the goal of your project? If yes, please provide a brief description stating how you achieved this goal. If no, please comment as to why the goal was not achieved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See narrative below.
	<input type="checkbox"/>	<input type="checkbox"/>	
Other Standard Reporting Requirements: Please indicate other monitoring/reporting requirements you may already be required to do independent from DWR contractual obligations. For example: CDPH Title 22 Ch. 15 "Domestic Water Quality AND Monitoring Regulations," NPDES, GAMA, CASGEM, or other internal reporting requirements that may yield valuable data.			
	Yes	No	Comments
Domestic Water Quality AND Monitoring Regulations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Monthly Monitoring reports are on file in the IVCSO office and available upon request.

What Upper Feather River IRWM Plan Objectives did your project address to support implementation of the Plan?			
	Yes	No	Comments
Restore natural hydrologic functions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Reduce potential for catastrophic wildland fires in the Region	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The two new fire hydrants help Greenville to fight fire from within.
Balance the needs of forest health, habitat preservation, fuels reduction, forest fire prevention, and economic activity in the Upper Feather River Region	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Build communications and collaboration among water resources stakeholders in the Region	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Work with Department of Water Resources to develop strategies and actions for the management, operation, and control of the State Water Project facilities in the Upper Feather River Watershed in order to increase water supply, recreational and environmental benefits to the Region	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Continue to actively engage in FERC relicensing of hydroelectric facilities in the Region	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Address economic challenges of municipal service providers to serve customers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See narrative below.
Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the Central Valley Regional Water Control Board Basin Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See narrative below.
Address water resources and wastewater needs of Disadvantaged Communities (DACs) and Native Americans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This is the Project goal.
Coordinate management of recharge areas and protect groundwater resources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Improve coordination of land use and water resources planning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Maximize agricultural, environmental and municipal water use efficiency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Effectively address climate change adaptation and/or mitigation in water resource management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Improve efficiency and reliability of water supply and other water-related infrastructure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This is the Project goal.
Enhance public awareness and understanding of water management issues and needs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Address economic challenges of agricultural producers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Work with counties, communities, and groups to make sure staff capacity exists for actual administration and implementation of grant funding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See narrative below.

1. Summary of the operations of the project.

The Project successfully implemented numerous repairs to the water and sewer systems within the community of Greenville. The repairs reduced the risk of system failure and contamination, and the relocation of several water lines on the State Highway (SH) 89 made room for new storm drain systems that were installed by Caltrans. Under the Clean Water Act's (CWA's) National Pollutant Discharge Elimination System (NPDES) program, the Environmental Protection Agency (EPA) regulates discharges of pollutants from municipal and industrial wastewater treatment plants, sewer collection systems, and stormwater discharges from industrial facilities and municipalities. This project specifically addressed the EPA's National Enforcement Initiative to reduce raw sewage overflows and stormwater discharges. The improvements to the Greenville sewer system, including numerous repairs sewer mains, lining of select sewer mains, cleaning and jetting of mains, replacement of a cleanout, and root treatment, significantly reducing the risk of failure and protect Wolf Creek from contamination with raw sewage. The improvements to the Greenville water system, including replacement of water mains, new water service and meters, and numerous gate valves prevents contamination of the water supply.

2. Discuss project benefits to water quality, water supply, and the environment.

Projects benefits from the project include reducing water loss and reducing maintenance costs for aging infrastructure. Installing new water lines also reduces the risk of contaminating of Wolf Creek from storm surcharges and leaking wastewater pipes. The project-related water savings were substantial enough to enable the Indian Valley Community Services District (IVCSD) to install two new fire hydrants which have provided additional project benefits by enhancing fire protection in Greenville. The project-related water savings have also resulted in more consistent and higher water pressure and higher flow for IVCSD customers in the vicinity of the project.

3. Comparison and explanation of any differences between expected versus actual project success in meeting IRWM priorities as stated in the original IRWM Implementation Grant application.

The project has achieved an unanticipated reduction in stormwater inundation. Because the existing 10-inch water main was too shallow for CALTRANS' SH 89 street reconstruction project specifications, CALTRANS was required to replace an additional 75 feet of 10-inch water line. The difference between expected and actual project success was the enhanced stormwater management benefits that accrued to the IVCSD.

4. Summary of any additional costs and/or benefits deriving from the project.

Because of the accelerated pace of the CALTRANS pavement repair and streetscape project on SH 89 through downtown Greenville, the IVCS D staff was obliged to be available during the CALTRANS project in order to fully coordinate IVCS D and CALTRANS staff and equipment to ensure timely completion of the CALTRANS project. The CALTRANS project has greatly benefited the IVCS D, but other IVCS D operations and maintenance priorities were delayed in order to respond to the accelerated CALTRANS project implementation schedule. Because the IVCS D serves the severely disadvantaged community of Greenville, operating revenues are limited. Because Greenville is located at approximately 4000 elevation in the Sierra Nevada, the construction season is generally limited to the summer months. The Project has not created additional costs, but it has delayed the IVCS D's accomplishment of operations and maintenance needs elsewhere in the Greenville system.

5. Additional information relevant to or generated by the continued operation of the project.

The CALTRANS project was anticipated to have been accomplished in coordination with street repair activities scheduled by Plumas County Public Works (PCPW) in the vicinity of the CALTRANS project. The IVCS D anticipated cost savings to the IVCS D through coordination between the PCPW and CALTRANS. Through no fault by either CALTRANS or the IVCS D, the PCPW's construction funds were delayed until the following year's construction season. And therefore, for a second year, IVCS D staff and equipment were redirected to support the PCPW street project. Again, the IVCS D incurred incidental costs associated with the accelerated completion schedule that became necessary to meet the PCPW's grant and construction completion deadlines. Benefits accrued to the IVCS D from the PCPW street pavement project. But because of the accelerated pace of PCPW project implementation, the IVCS D's other maintenance projects were again delayed for a second year. The IVCS D plans to direct staff and budget resources towards reducing the IVCS D's deferred maintenance backlog during the 2019 construction season.