

## 2018 Small-Scale Water Efficiency Projects

### Arizona

#### **City of Avondale, Avondale Well Booster Station Meter Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$198,340**

The City of Avondale will update two water treatment/booster station wells within the system and connect them to the city's current supervisory control and data acquisition system. The project will help the city better manage water supplies.

#### **Cortaro Water Users Association, Supervisory Control and Data Acquisition Project**

**Reclamation Funding: \$21,500**

**Total Project Cost: \$43,050**

The Cortaro Water Users Association in Marana, Arizona in conjunction with the Cortaro-Marana Irrigation District, will install supervisory control and data acquisition (SCADA) technology along with the necessary hardware on two wells within the district's system. The SCADA technology will provide more accurate, real-time water data to the district and water users.

#### **Mohave Valley Irrigation and Drainage District, Discharge Pipe Replacement Project**

**Reclamation Funding: \$50,000**

**Total Project Cost: \$100,000**

The Mohave Valley Irrigation and Drainage District in northwest Arizona will upgrade 20 corroded well discharge lines from steel to polyvinyl chloride (PVC) pipe. This project is identified in the district's 2014 Water Conservation Plan.

#### **North Gila Valley Irrigation and Drainage District, McPherson Lateral Lining Phase III**

**Reclamation Funding: \$43,044**

**Total Project Cost: \$86,088**

The North Gila Valley Irrigation and Drainage District, located in southwest Arizona and headquartered in Yuma, Arizona, will line nearly 1,500 feet of the McPherson Lateral Canal. This is the third and final phase of this project, which will result in decreased seepage and enhanced water delivery efficiency, as well as improved safety by reducing risk of lateral failure typically caused by gopher holes. This project is aligned with the district's Water Conservation Plan, which promotes efficiencies in water measurement and ordering.

#### **Oak Creek Water Company, Meter Upgrade Replacement Program**

**Reclamation Funding: \$74,500**

**Total Project Cost: \$149,008**

The Oak Creek Water Company, located in Sedona, Arizona, will replace 348 inaccurate water meters with new electronic smart meters to mitigate water losses in its distribution system. This project will expedite the Company's Capital Improvement Plan, which calls for the replacement of all district meters in three years.

### **Unit B Irrigation and Drainage District, Pipeline Project B8 Lateral**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$150,000**

The Unit B Irrigation and Drainage District, located in Somerton, Arizona, will replace two parallel 18-inch concrete pipelines with one 30-inch polyvinyl chloride (PVC) pipeline. This will allow the District to deliver water to farmers at a higher flow than is presently possible, which will in turn improve irrigation capabilities. In addition, this project will increase the efficiency of the system, as the improvement from concrete to PVC piping will lead to decreased friction within the pipe.

## **California**

### **Bard Water District, New Gate Installation in the Cocopah Canal**

**Reclamation Funding: \$33,241**

**Total Project Cost: \$66,482**

The Bard Water District in Winterhaven, California, will install an overshot gate and check structure in the Cocopah Canal. The project will increase the efficiency of the water delivery system, decrease water loss, and improve the safety of the canal. This project supports elements of the district's Reservation Improvement Project Plan.

### **City of Big Bear Lake, Water System Facilities Automation Project Phase II**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$150,197**

The City of Big Bear Lake in southern California will upgrade four existing pumping plant controls with new variable frequency drive units and water meters, upgrade telemetry components, install three new production well meters, upgrade six other production well meters by adding supervisory control and data acquisition and radio read connections, and upgrade its main base SCADA server. These improvements will allow the city to more accurately control and monitor water use and fluctuations. The upgrades will also improve reporting and alarm abilities, and allow for faster responses to problems and emergencies, preventing further water loss. This project aligns with goals in the city's five-year Capital Improvement Plan.

### **City of Orland, Installation of City Park Water Meters**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$138,558**

The City of Orland in northern California will install twelve water metering devices in six of the city's municipal parks, and other landscaped areas increasing irrigation efficiency. This project is a priority identified in the city's 2014 Water Shortage Contingency and Conservation Plan.

### **Durham Irrigation District, Water System Infrastructure Efficiency Project Phase I**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$156,640**

The Durham Irrigation District, located near the City of Chico, California, will install SCADA and metering on three domestic water supply wells, along with 42 automatic meter read service connection meters. This project will facilitate accurate measurement of water use, minimize operational costs, provide data-driven estimates of system losses, and help the district accurately prioritize future infrastructure projects. The project is aligned with the district's 2018 Capital Improvement Plan and several county-wide planning efforts.

**Eastern Municipal Water District, Residential Irrigation Efficiency Project**

**Reclamation Funding: \$60,000**

**Total Project Cost: \$120,000**

The Eastern Municipal Water District in Riverside County, California, will install high-efficiency irrigation equipment for 50 single family customers. The project is supported by the district's 2015 Water Efficiency Master Plan.

**Lindmore Irrigation District, 93.2E Plant Modernization Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$197,000**

The Lindmore Irrigation District in Lindsay, California, will install a variable flow device on two of eight pumps within the district's system, install soft start devices on the remaining six pumps, and add a SCADA system to manage the pumps. The project will allow the district to maintain control and flexibility of the system. This project supports goals identified in the district's 2015 Agricultural Water Management Plan.

**North Kern Water Storage District, Automation and Evapotranspiration Measurement Improvement Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$168,342**

The North Kern Water Storage District in Bakersfield, California, will install SCADA software, which will interface with previously installed on-site SCADA equipment, and two evapotranspiration measurement stations in the service area. The project is supported by the district's 2015 Agricultural Water Management Plan.

**North San Joaquin Water Conservation District, South System Branch Automation Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$155,000**

The North San Joaquin Water Conservation District, located in central California, will install two remotely monitored and controlled valves, along with meters and telemetry equipment, at a junction between the east and west branches of its South System pipeline. This project will allow the district to match diversion rates to real-time system demands. These improvements will reduce operational losses and increase efficiency. Improvements to the South System were prioritized in the 2015 Mokelumne Watershed Interregional Sustainability Evaluation Program, as well as the 2014 Eastern San Joaquin Integrated Regional Water Management Plan.

**North San Joaquin Water Conservation District, South System Master Control Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$153,400**

The North San Joaquin Water Conservation District, located in central California, will install master control center equipment and software, as well as a remotely monitored real-time water meter at the end of its South System Pipeline. This will allow the district to better control and measure surface water deliveries within its distribution system, increasing the availability of surface water and advancing the district's goal of decreasing agricultural reliance on groundwater.

**North Yuba Water District, Dobbins Oregon House Canal Improvement Project Phase I**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$199,994**

The North Yuba Water District, located in Brownsville, California, will convert 2,640 feet of the open Dobbins Oregon House Canal to a 24-inch closed pipe system. This project will reduce water loss due to seepage and canal overflows, and reduce maintenance costs. This project will also increase water delivery efficiency. The district has identified canal infrastructure upgrades as its highest priority for long-term sustainability of resources, and aligns with ongoing district and county-wide planning efforts.

**Pajaro Valley Water Management Agency, Real-Time Water Use Data Acquisition for the Coastal Distribution System**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$169,016**

The Pajaro Valley Water Management Agency in central California will install remote telemetry equipment at metered turnouts on the Coastal Distribution System. The project will allow the agency to acquire real-time water use data to improve water conservation and detect and stop large leaks. The project is supported by elements in the agency's 2010 Basin Management Plan.

**Placer County Water Agency, Installation of Automated Canal Headgates to Increase Operational Efficiency**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$197,368**

The Placer County Water Agency in northern California will install automated headgates at five branch canals. The headgates will have flow meters attached and will be incorporated into an existing supervisory control and data acquisition system. The new headgates will replace old manual headgates, improving consistency of deliveries and reducing water loss from canal terminals. This project follows a pilot project which tested the applicability of gate improvements to the conveyance system.

**Rancho California Water District, Identifying and Reducing Water Loss through the Establishment of a District Metered Area**  
**Reclamation Funding: \$70,500** **Total Project Cost: \$156,828**

The Rancho California Water District in Temecula, California, will create a District Metered Area that will function as a permanent water loss control system. Creation of the District Metered Area will include the installation of two production meters to measure the quantity of water entering the area, utilize existing software to locate inaccurate residential meters, and upgrade inaccurate meters to new ultrasonic metering technology. The project will increase water management and minimize water loss. The project is supported by goals in the district's Blueprint for Water Use Efficiency.

**South Tahoe Public Utility District, Pressure Reducing Valve Supervisory Control and Data Acquisition Improvements Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$304,600**

The South Tahoe Public Utility District, located in South Lake Tahoe, California, will upgrade equipment at the Pioneer Trail/Marshall Pressure Reducing Valve (PRV) Station, including the installation of status and alarms signals and integration into the existing SCADA system. These upgrades will enable real-time monitoring of the PRV station, which will allow the District to better control the use of its water and increase water efficiency. A 2014 technical memorandum identifies the district's priorities for SCADA system improvements, and specifically highlights pressure and flow measurement for water system

subzones. Additionally, a 2016 Water System Optimization Plan identifies PRV replacements and reliability improvements as a high priority.

**Tahoe City Public Utility District, Timberland Municipal Water Meter Installation Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$199,904**

The Tahoe City Public Utility District, located in northern California, will install advanced metering infrastructure meters on 100 municipal connections, extending automatic metering to its entire water distribution system. This project will improve water supply reliability by monitoring, tracking, and reporting water use. The project is listed on the district's short-term priority improvement list, approved by its board in April 2018.

## **Colorado**

**Bostwick Park Water Conservancy District, Automatic Control Gate for Cimarron Diversion**  
**Reclamation Funding: \$15,000** **Total Project Cost: \$31,449**

The Bostwick Park Water Conservancy District and the Cimarron Canal and Reservoir Company of Montrose, Colorado, will install a new knife gate with supervisory control and data acquisition near the inlet of the Cimarron Canal, the main delivery facility for the Bureau of Reclamation's Bostwick Park Project. This automated water control device will allow for more accurate control of water flow, reduce over-diversion from the river to the canal and the Bostwick Park Project, and keep the river and the canal at desired flows in line with real-time data. The knife gate will also reduce demands on district staff time and will help control runoff from storm events. The district's Water Management Plan has identified this location as one of three critical water measurement locations.

**City of Trinidad, Municipal Metering Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$150,000**

The City of Trinidad in southern Colorado will install Advanced Metering Infrastructure (AMI) for 1,000 residential customers. The AMI technology will provide real-time water usage data and will assist residents, business owners, and city workers in water conservation and planning efforts. The project is a critical priority identified in the city's 2012 Water Conservation Plan.

**Fire Mountain Canal and Reservoir Company, Reservoir Monitoring and Control Project**  
**Reclamation Funding: \$31,055** **Total Project Cost: 63,342**

The Fire Mountain Canal and Reservoir Company, located in Hotchkiss, Colorado, will install SCADA telemetry on the upper end of the company's irrigation delivery system, including at Paonia Reservoir. This will improve the company's ability to manage existing water supplies, capture additional storage during storm events, and improve efficiency of irrigation deliveries. This project aligns with goals of the 2001 Fire Mountain Canal Water Management Plan and the Gunnison Basin Implementation Plan. The project also addresses a key recommendation regarding SCADA from the 2017 Fire Mountain Canal Reconfiguration Project: Integrated Assessment, Comprehensive Implementation Planning and Engineering Review.

### **Maybell Irrigation District, Maybell Canal Water Conservation Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$214,623**

The Maybell Irrigation District in northwest Colorado will line 1,300 feet of the earthen Maybell Canal with a geomembrane liner. This project will remedy a problematic section of canal that has a large seepage rate and regularly sloughs into the adjacent Yampa River, impairing the river's water quality. This segment of the canal is also at risk of a breach. Improvements to the canal will result in more water retained in the canal, improved water quality, and more efficient water delivery. This project supports goals identified in the recently completed Yampa/White/Green Basin Implementation Plan.

### **Uncompahgre Valley Water Users Association, Tail Water Telemetry Project**

**Reclamation Funding: \$62,957**

**Total Project Cost: \$125,914**

The Uncompahgre Valley Water Users Association in western Colorado will install real-time satellite monitoring at eight spill locations and upgrade existing gaging stations to permanent concrete flumes. The project will reduce spills, provide real-time flow data, and improve water management.

## **Idaho**

### **Boise Project Board of Control, Automation of the Deer Flat Low Line Canal No. 3**

**Reclamation Funding: \$37,602**

**Total Project Cost: \$75,204**

The Boise Project Board of Control in Boise, Idaho, will install two automated control gates on the Deer Flat Low Line Canal #3. The project will be connected to the existing supervisory control and data acquisition system and will stabilize and more precisely control water flows in the canal. This project meets an objective of the 2010 Boise Project Water Conservation Plan.

### **Shoshone-Bannock Tribes, Fort Hall Water Measurement Project**

**Reclamation Funding: \$20,000**

**Total Project Cost: \$40,668**

The Shoshone-Bannock Tribes, located in Fort Hall, Idaho, will install nine surface water measuring devices, along with supporting telemetry equipment, on irrigation laterals within the Fort Hall Irrigation Project. These upgraded devices will provide real-time data, allowing the Tribes to improve surface water management and leading to more efficient operations and accurate deliveries. The upgrades will also facilitate improved water rights accounting and reservoir operations. The project is identified in the Shoshone-Bannock Tribes' 2006 Water Conservation Reconnaissance Study.

## **Kansas**

### **Kirwin Irrigation District No. 1, Conversion of Lateral 6.8 to Buried Pipeline**

**Reclamation Funding: \$34,000**

**Total Project Cost: \$68,000**

The Kirwin Irrigation District No. 1 in northwestern Kansas will convert 3,696 feet of an open ditch lateral to polyvinyl chloride pipe, reducing seepage and evaporation. The project meets goals identified in the district's Water Conservation Plan and District Operating Plan, and is part of Reclamation's Pick-Sloan Solomon Division Kirwin Unit.

**Webster Irrigation District No. 4, Conversion of Osborne Lateral 14.9 to Buried Pipeline**  
**Reclamation Funding: \$63,000** **Total Project Cost: \$126,000**

Webster Irrigation District No. 4 in Gaylord, Kansas, will convert the Osborne open ditch lateral into a 1.5-mile buried pipe system. The project will eliminate evaporation, seepage, and operational losses. This project aligns with the Webster Irrigation District's Water Conservation Plan and Operating Plan.

## **Nevada**

**Walker River Irrigation District, Saroni Canal Water Conservation Project Phase II**  
**Reclamation Funding: \$29,872** **Total Project Cost: \$60,963**

The Walker River Irrigation District in Yerington, Nevada, will install four cross-regulating structures on the Saroni Canal. The project will minimize water loss and increase water efficiency and delivery.

## **Montana**

**Billings Bench Water Association, Main Canal Improvement Project Phase I**  
**Reclamation Funding: \$74,592** **Total Project Cost: \$149,592**

The Billings Bench Water Association, headquartered in the City of Billings, Montana, will line 1,550 feet of its main canal. This project will result in shorter water delivery times and water conservation through a reduction in seepage.

## **New Mexico**

**Carlsbad Irrigation District, Main Canal Lining for Water Savings & Efficiency**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$160,369**

The Carlsbad Irrigation District in Carlsbad, New Mexico, will seal 7,392 feet of concrete liner on a segment of the District's Main Canal. The project will improve the system by reducing seepage losses. This project is supported by elements identified in the 2016 Lower Pecos Valley Regional Water Plan.

**City of Gallup, Upgrade of Municipal Meters**  
**Reclamation Funding, \$60,000** **Total Project Cost: \$120,000**

The City of Gallup, located in northwest New Mexico, will upgrade old mechanical meters with modern solid-state meters for industrial, commercial, and institutional users. This project will allow for more accurate measurement of water consumption by 24 high-volume users. After replacing the meters, the city plans to track any reductions in water use to determine both water and financial savings. The project is supported by the 2013 Gallup Joint Utilities Water Conservation Plan, which emphasizes minimizing non-revenue water by replacing mechanical meters with automatic meter reading technology, especially for top commercial sector users.

**City of Las Cruces, Smart Irrigation Technology Water Supply Reliability Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$150,000**

The City of Las Cruces will install automated irrigation technology for watering one community park and seven ball fields, totaling approximately 52 acres. This new system will control both the schedule and total output of irrigation water based on environmental conditions such as soil factors and weather. The city will also implement a centralized control system which will lead to more efficient irrigation and water use at the identified facilities. This project implements goals identified in several of the city's water planning efforts.

**City of Rio Rancho, Ultrasonic Water Meter Replacement**  
**Reclamation Funding: \$70,000** **Total Project Cost: \$156,403**

The City of Rio Rancho will replace 179 two-inch compound water meters with new ultrasonic water meters. The city's compound meters currently underreport water usage. These new meters will allow consumers to more accurately gauge their water use, which will increase their ability to conserve water. This project addresses goals identified in the city's 2014 Water Resources Management Plan.

## **North Dakota**

**Agassiz Water Users District, Remote Read Water Meter Project**  
**Reclamation Funding: \$74,892** **Total Project Cost: \$149,992**

The Agassiz Water Users District in Gilby, North Dakota, will add new residential automatic meter read systems with SmartPoint radio transmitters on 437 of its residential system connections. This will allow the district to reduce water loss and improve reliability of their water supply.

**Tri-County Water District, Automated Meter Read Project Phase I**  
**Reclamation Funding: \$75,000** **Total Project Cost \$152,460**

The Tri-County Water District, located in Petersburg, North Dakota, will upgrade 350 self-read meters with Automated Meter Reading meters and associated AMR components. This will allow the district to reduce water loss and improve reliability of their water supply.

**Walsh Rural Water District, Remote Read Water Meter Project Phase II**  
**Reclamation Funding: \$74,655** **Total Project Cost \$149,479**

The Walsh Rural Water District, located in Grafton, North Dakota, will upgrade its water distribution system by replacing its residential water meters with new automatic meter reading meters. This is the second phase of a larger plan to replace all traditional and bulk user meters within the district's system. Under this phase, the Walsh Rural Water District plans to upgrade 415 meters, which will help the district identify leaks and other unaccounted-for water use. The project will also increase operational efficiency for staff time and allow for automatic data acquisition.

## Oklahoma

### **City of Durant, Smart Meter Installation Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$200,000**

The City of Durant in southeast Oklahoma will install 300 residential automated meter reading smart meters within the city's distribution system. The project will improve monitoring and help reduce water losses within the city's system.

### **City of Tishomingo, Smart Meter Installation Project**

**Reclamation Funding: \$74,850**

**Total Project Cost: \$149,860**

The City of Tishomingo, located in southern Oklahoma, will install 27 automated meter reading smart meters, along with the necessary hardware and software to read and transmit meter data within the city. These meters will assist the city in reducing water loss and help the city more efficiently make use of its limited water supply.

### **Thomas Public Works Authority, Smart Meter Installation Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$174,985**

The Thomas Public Works Authority, located in the town of Thomas in western Oklahoma, will install 12 smart meters and SCADA controls to its existing water distribution system. This will increase efficiency in the system, help the Authority monitor water losses, and decrease staff hours associated with data acquisition. This project meets the first listed goal of a regional Capital Improvement Plan.

## Oregon

### **Talent Irrigation District, Ashland Main Canal Plummer Piping**

**Reclamation Funding: \$26,046**

**Total Project Cost: \$52,093**

The Talent Irrigation District located in southwest Oregon will replace a 360-foot segment of the Ashland Main Canal with an enclosed pipe. This will improve the flow of water by reducing friction within the delivery system, reduce the likelihood of canal failure, increase the efficiency of the water delivery system, and reduce water loss from leaks, seepage, and evaporation. This project implements a goal identified in the district's 2018 Water Management and Conservation Plan.

### **Talent Irrigation District, Main Canal Shotcrete Project – Bear Creek Siphon Section**

**Reclamation Funding: \$18,611**

**Total Project Cost: 37,223**

The Talent Irrigation District located in southwest Oregon will upgrade a 900-foot section of the Talent Main Canal by lining with fiber reinforced shotcrete. The project supports elements identified in the district's 2018 Water Management and Conservation Plan.

### **West Extension Irrigation District, Sub-lateral Piping Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$164,597**

The West Extension Irrigation District in north-central Oregon will convert a 4,200-foot section of open lateral to polyvinyl chloride pipe and will construct a pump station to provide pressurized deliveries. The project will increase efficiency of the water delivery system and reduce water loss. The project supports

goals identified in the district's 2011 Water Management and Conservation Plan, as well as the district's 2016 Boardman Master Plan.

## **South Dakota**

### **Belle Fourche Irrigation District, Herman Lateral Piping Project Final Phase**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$150,600**

The Belle Fourche Irrigation District of Newell, South Dakota, will install approximately 3,500 feet of 18-inch polyvinyl chloride pipe on the Herman Lateral, replacing the open ditch that is currently in place. This project will reduce seepage and will increase water efficiency by creating a closed system. The district has previously piped a similar canal with positive results.

## **Texas**

### **El Paso County Water Improvement District No. 1, Ysla Lateral Concrete Lining Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$199,845**

The El Paso County Water Improvement District No. 1 in El Paso, Texas, will line 3,100 feet of the open Ysla lateral with fiber reinforced shotcrete. The project will reduce seepage and mitigate potential damages caused by spillage in surrounding commercial and public sites. The project supports elements identified in the district's 2017 Water Conservation Plan.

## **Utah**

### **Draper Irrigation Company (WaterPro), Culinary Smart-Metering Project**

**Reclamation Funding: \$75,000**

**Total Project Cost: \$173,697**

The Draper Irrigation Company, located in Salt Lake County, Utah, will upgrade 490 conventional water meters with new ultrasonic smart meters. This will improve metering accuracy, reduce labor required to read meters, improve leak detection and repair capabilities, and decrease overall water use. This project is aligned with the company's Water Conservation Master Plan.

### **Jordan Valley Water Conservancy District, Utah Water Savers: A Collaborative Approach to Water Conservation**

**Reclamation Funding: \$72,036**

**Total Project Cost: \$144,072**

The Jordan Valley Water Conservancy District in Salt Lake County, Utah, will support existing outdoor landscape irrigation water conservation rebate programs, including replacement of turf with water efficient landscaping and conversion to drip irrigation. The project was identified in the district's 2014 Water Conservation Plan.

**Roy Water Conservancy District, Secondary Water System Metering Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$150,000**

The Roy Water Conservancy District in Riverdale, Utah, will install 130 secondary water meters on existing connections. The project will help the district better manage water supplies and promote conservation. The project is supported by the district's 2015 Water Conservation Plan.

**Washington County Water Conservancy District, Outdoor Irrigation Efficiency Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$150,000**

The Washington County Water Conservancy District, located in St. George, Utah, will provide irrigation upgrade rebates to 300 single family homes to upgrade outdoor irrigation systems. The project was identified as a goal in the district's 2015 Water Conservation Plan.

**Weber Basin Water Conservancy District, Aqueduct Turnout and Secondary Lateral Metering Project**  
**Reclamation Funding: \$74,771** **Total Project Cost: \$149,542**

The Weber Basin Water Conservancy District, located in Layton, Utah, will install 12 magnetic flow meters and upgrade 5 existing flow meters on turnouts from the Davis Aqueduct, Weber Aqueduct and other large secondary laterals - connecting a total of 17 meters to the district's existing advanced metering infrastructure system. The project will improve the collection of water use data in an area that is growing rapidly and prone to drought and water shortages. This project meets goals described in a 2008 System Optimization Review, as well as the district's 2018 Water Conservation Plan.

**Weber Basin Water Conservancy District, Potable Water System Metering Project Phase II**  
**Reclamation Funding: \$74,884** **Total Project Cost: \$149,768**

The Weber Basin Water Conservancy District, located in Layton, Utah, will upgrade 10 existing flow meters to tie into the district's current automated metering infrastructure system, and install 25 new magnetic flow meters. The project will promote water conservation and improve water management. The project was identified in the district's 2018 Water Conservation Plan.

## **Washington**

**Columbia Irrigation District, Lower Main Canal Automated Check Structure Project**  
**Reclamation Funding: \$68,485** **Total Project Cost: \$136,970**

The Columbia Irrigation District in Kennewick, Washington, will install two new gate structures, as well as two magnetic flow meters to automate its Main Canal. The new infrastructure will reduce canal breaches, help regulate flows, and reduce labor costs. The project was identified in the district's Water Conservation Plan.

**Kittitas Reclamation District, Main Canal Seepage Loss Correction**  
**Reclamation Funding: \$75,000** **Total Project Cost: 150,000**

The Kittitas Reclamation District in Ellensburg, Washington will seal 3,000 feet of concrete canal liner in the district's Main Canal. The project will improve the system by reducing seepage losses. The project is supported by the district's Water Conservation Plan.

**Quincy-Columbia Basin Irrigation District, Automation of W32.9 Lateral Turnout**  
**Reclamation Funding: \$25,527** **Total Project Cost: \$51,054**

The Quincy-Columbia Basin Irrigation District, located in Quincy, Washington, will automate the W32.9 lateral turnout of the West Canal. The stretch of canal upstream of this lateral currently experiences significant flow fluctuations, resulting in excess delivery to the lateral that is eventually lost as operational spill. The district will install a Rubicon SlipMeter that can independently account for these flow changes and will result in water conservation. Water conservation through canal automation is a goal identified in the district's Water Conservation Plan, and the W32.9 lateral automation has been on the district's system improvement list since 2010.

**Roza Irrigation District, Main Canal Concrete Sealing Project – From MP36.2 to MP36.9**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$150,665**

The Roza Irrigation District in southeastern Washington will seal a half-mile of concrete canal liner in the district's Main Canal. The project will improve the system by reducing seepage losses.

## **Wyoming**

**Upper Bluff Irrigation District, Pump Upgrade Project**  
**Reclamation Funding: \$75,000** **Total Project Cost: \$261,490**

The Upper Bluff Irrigation District in Worland, Wyoming, will upgrade two existing split case centrifugal pumps with modern variable frequency drive pumps, with programmable water level sensors, to modulate and adjust flows based on demand. The technology will improve system operations by reducing spills.