BUREAU OF RECLAMATION

FY 2023 Planning and Project Design

Alaska

The City of North Pole, North Pole Water Main Upgrade Design (Project Design Grants)
Reclamation Funding: $164,471 **Total Project Cost: $328,942**
The City of North Pole, located near Fairbanks, Alaska, will develop final design plans and specifications for the City's water mains in the downtown loop to increase infrastructure resiliency. The downtown loop water main distributes water to critical municipal infrastructure and lifelines, such as City Hall, police, and fire departments. This section of pipe has been selected as a high priority water conservation opportunity. This design will include systematic design, specifications, and development of construction documents to move from final design to shovel-ready. The study will have lasting benefits to water resources within the Tanana Valley Watershed and improve water security for citizens in interior Alaska.

Arizona

Water Management Group, Inc., Enhancing Mountain Front and Shallow Groundwater Recharge for Climate Resiliency (Water Strategy Grants)
Reclamation Funding: $263,911 **Total Project Cost: $360,045**
The Watershed Management Group, Inc. will collaborate with Sky Island Alliance to develop a strategic plan to enhance groundwater recharge opportunities in the Lower Santa Cruz watershed in Pima County, Arizona. The Lower Santa Cruz watershed contributes significant recharge to the Tucson regional aquifers; however, warmer winters are providing less snowmelt to nourish upland springs and replenish downstream aquifers. Drought conditions and more intense summer storms have increased flood risk and reduced recharge potential in the watershed. The project partners will utilize the diverse stakeholder and subject-matter expertise of the Santa Cruz Watershed Collaborative to identify priority project sites to mitigate flood risk and increase recharge, and will survey springs, creeks, and arroyos to assess management needs and identify priority restoration sites and develop conceptual project plans and an implementation strategies. This effort compliments the existing WaterSMART Lower Santa Cruz River Basin Study and the Santa Cruz Watershed Collective's Watershed Restoration Plan. The project partners will collaborate closely with water management agencies, including the Pima County Regional Flood Control District, and the U.S. Forest Service.

California

City of Long Beach, Long Beach Utilities Department Strategic Plan (Water Strategy Grants)
Reclamation Funding: $300,000 **Total Project Cost: $600,000**
The City of Long Beach Utilities Department, located in southwest Los Angeles County, California, will update its long-term Water Resources Plan to increase water supply security for the cities of Long Beach and Signal Hill. Severe and prolonged drought conditions in Southern California have decreased reservoir levels and depleted groundwater, leading to water restrictions in many communities. These impacts have underscored the vulnerability of the City's water supply, highlighting the need for sustainable water management strategies and increased water conservation efforts. The City will conduct workshops, presentations, and data collection with local stakeholders, forecast future water demands, evaluate water supply reliability, evaluate alternative water supply options, and identify and prioritize potential implementation projects to guide future water supply decisions and investments. This planning effort is supported by the Water Replenishment District of Southern California and the Metropolitan Water District.

City of Stockton, Delta Water Treatment Plant Groundwater Recharge Improvement Project Design (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $813,000**
The City of Stockton, located in central California, will design a groundwater recharge improvement project, adjacent to the Delta Water Treatment Plant. The design will consist of three recharge ponds, connections and conveyance systems, and monitoring systems including monitoring wells and surface water gages. The San Joaquin River Basin has been facing significant water management challenges due to rising water demands and increasingly severe droughts. This project will improve groundwater sustainability, provide flood protection and wildlife habitat, and increase water management flexibility through water storage for future use when existing surface water supplies are impacted. This groundwater recharge project is part of the Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan which highlights the need to replace groundwater use or supplement groundwater supplies to meet current and future water demands and to achieve system sustainability.

East Valley Water District, Widening Availability Through Engineered Resiliency: Increasing Drought Resiliency Through New Well Design (Project Design Grants)
Reclamation Funding: $225,000 **Total Project Cost: $450,000**
East Valley Water District, located in San Bernardino County, California, will design a well to assist with supply shortages caused by prolonged drought conditions threatening water supply in the region. The project includes preparing a design package for well drilling, developing a design package for well equipping, and preparing cost estimates. The District relies on both surface water and ground water to provide potable water. The District's groundwater supply has decreased significantly due to water quality issues and extended periods of drought conditions. Reductions in surface water supply from the State Water Project during drought conditions has also caused substantial supply deficits. The design for a new well will help increase the

resiliency of the District's water portfolio to better serve the needs of the community. The project is supported by the District's Water System Master Plan and Hazard Mitigation Plan that identify wells as a near-term water system improvement needed to ensure consistent water supply during periods of drought.

Elsinore Valley Municipal Water District, Corydon Well Rehabilitation Design Project (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $2,805,145**
Elsinore Valley Municipal Water District, located in southwestern Riverside County and eastern Orange County, California, will design the rehabilitation and replacement of the Corydon well including a new well, and intertie infrastructure at the existing Corydon Blend station and transmission main. The design will include final engineering plans, specifications, and cost estimates, enabling the District to prepare for construction. Local groundwater is a crucial source of supply to mitigate recurring droughts and shift away from expensive and vulnerable imported water from the Sacramento-San Joaquin Delta and the Colorado River. This project was prioritized through extensive planning efforts by the District to secure a sustainable and responsible water future in the region, including the District's 2021 Groundwater Sustainability Plan.

Indio Water Authority, Cr6 Treatment Strategic Plan (Water Strategy Grants)
Reclamation Funding: $400,000 **Total Project Cost: $409,836**
The Indio Water Authority, located in Riverside County in the Inland Empire area of California, will develop a strategic plan for removing hexavalent chromium (Cr6) contamination from the groundwater wells used to supply the City's domestic water uses. The Authority delivers water to 93,000 residents in an area facing economic vulnerabilities and environmental health risks from air pollution and water quality concerns. Cr6 contamination affects Indio's 20 groundwater wells, 13 of which (65%) will exceed the proposed maximum concentration level of 10 micrograms per liter for drinking water set by the California State Water Resources Control Board when it goes into effect in 2024. To address this significant health and water quality threat, the Authority will analyze the Cr6 conditions within the service area and select one well for a treatment pilot to identify a safe and effective treatment approach and will use the results to develop a plan for broader implementation. The project is supported by the Coachella Valley Water District and Valley Sanitary District.

Lindsay-Strathmore Irrigation District, Planning and Design for the Rancho de Kaweah Groundwater Banking Project (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $1,367,864**
The Lindsay-Strathmore Irrigation District, located in Tulare County California, will develop the planning documents and design plans for the new Rancho de Kaweah groundwater banking project. The design includes a pipeline, re-regulating basin, lift station, aquifer recharge areas, and wells for recovery in times of need. The District's water supply reliability is at risk due to periods of extreme drought. Once constructed, the project will increase capacity for water recharge and storage for future use during periods of surplus surface water. The project is supported by multiple stakeholders including local irrigation districts, ditch companies, and the

East Kaweah Groundwater Sustainability Agency. The Rancho de Kaweah aquifer storage and recovery project is listed as a high priority in the East Kaweah Groundwater Sustainability Agency Groundwater Sustainability Plan for sustainable groundwater management over the next 50 years.

Monterey County Water Resources Agency, Nacimiento and San Antonio Watersheds Weather Modification (Water Strategy Grants)
Reclamation Funding: $266,965 **Total Project Cost: $533,931**
The Monterey County Water Resources Agency (MCWRA) will conduct planning activities and develop an implementation plan for a weather modification pilot project to augment precipitation within the Nacimiento and San Antonio Watersheds in Monterey County, California. Building on prior planning efforts and implementation of cloud seeding by nearby Santa Barbara and San Luis Obispo Counties, MCWRA will analyze projected water availability and needs, model and analyze the results of various cloud seeding augmentation strategies, complete analyses necessary for environmental compliance processes, and conduct a cost-benefit analysis of alternative solutions. The resulting implementation plan will support an initial pilot lasting multiple winter seasons to obtain data to fine-tune a permanent weather modification program. MCWRA will also conduct a public outreach and engagement campaign to support the implementation plan. The project will continue coordination with a range of stakeholder groups, regional and state officials, and water management entities, who engaged in the development of the project concept.

Moulton Nigel Water District, OASIS Water Resources Center: Runoff Diversion Planning Study (Water Strategy Grants)
Reclamation Funding: $337,500 **Total Project Cost: $112,515**
The Moulton Niguel Water District (District) in Laguna Nigel, California, is partnering with Orange County Public Works to develop a strategy to divert urban runoff and stormwater within the Aliso Creek Watershed to improve downstream water quality and increase water supplies. More intense and frequent drought has impaired water quality and caused erosion and flooding. The District is also 100% dependent on imported water to meet its potable water demands and imported water is becoming more limited due to climate change conditions. Through this planning effort, the District will investigate use of Laguna Niguel Lake to store runoff to provide a drought resilient, local, potable water supply, and to reduce discharges of urban runoff to Aliso Creek. The District will investigate use of a nature-based treatment system using the natural ecosystem to remove sediment and contaminants from urban runoff, and will identify opportunities to restore riparian and floodplain habitat in Aliso Creek benefit fish and reduce erosion and flood risk. The District will engage cities and local water districts, disadvantaged communities, environmental groups, and other stakeholders.

Orland Artois Water District, Orland Artois Water District's Infrastructure Expansion Design Project (Project Design Grants)
Reclamation Funding: $300,000 **Total Project Cost: $611,814**
The Orland-Artois Water District, located in Glenn County, California, will design new infrastructure, including turnouts off the Tehama-Colusa Canal and expansion of its buried pipeline conveyance system to deliver water to approximately 4,000 acres of adjacent established farmland. As groundwater levels have declined, some wells have gone dry and land subsidence has occurred. The project will improve delivery efficiencies to the District's landowners and allow the District to serve additional acres with supplemental surface water supplies, thereby reducing annual groundwater pumping in the range of 4,000 to 8,000 acre-feet per year during normal to wet years. This reduction will allow the project to support the sustainability objectives of the Colusa Subbasin within California's Sustainable Groundwater Management Act. Stakeholders supporting the project include of landowners, the City of Orland, Artois Community Services District, Colusa Basin Drainage, Glenn County Groundwater Authority, Glenn County, North Valley Community Foundation, and the Tehama Colusa Canal Authority.

Rancho California Water District, Address Murrieta-Temecula Water Quality for Long-Term Supply Reliability Phase I (Water Strategy Gants)
Reclamation Funding: $400,000 **Total Project Cost: $800,088**
The Rancho California Water District, located in Temecula, California, will develop a strategic plan for advanced wellhead treatment facilities capable of mitigating emerging contamination from man-made chemicals that resist oil, water and heat, known as "PFAS," in southwestern Riverside County. The development of a PFAS treatment strategy project will protect groundwater, an important local water supply source, and reduce reliance on imported water. The planning effort includes a water quality data review, sampling and testing for PFAS removal, development and analysis of treatment configurations, a treatment pilot study, design of a conceptual site layout, and cost estimates for remediation, and an implementation plan. This project aligns with Rancho Water's Upper Santa Margarita Watershed Integrated Regional Water Management Plan to maximize groundwater potential and improve water quality. The project is supported by the Pechanga Tribe, County of Riverside, and City of Temecula.

San Bernardino Valley Municipal Water District, Devil Creek and Sweetwater/Devil Canyon Basins Improvements Project (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $2,007,600**
San Bernardino Valley Municipal Water District will design improvements to convey local stormwater and imported water from the California Department of Water Resources State Water Project to a series of recharge basins in the City of San Bernardino, California. The District is facing variability in water supplies given its dependency on imported water. Due to the increased frequency of extreme droughts and over-allocation, imported water is becoming less reliable as a method of long-term groundwater replenishment. The District has identified a critical need for local infrastructure to facilitate recharging for the future water needs of the region. The Devil Creek and Sweetwater/Devil Canyon Basins Improvements Project is an important water supply alternative for long-term water management identified in the 2021

Integrated Regional Urban Water Management Plan, focused on improving the resiliency of drinking water supplies to drought and climate change.

San Gorgonio Pass Water Agency, Brookside West Recharge Facility Expansion (Project Design Grants)
Reclamation Funding: $400,000 Total Project Cost: $1,060,000
San Gorgonio Pass Water Agency, located in Riverside County, California will investigate expanding the existing regional recharge capacity by completing site investigations and designing additional recharge ponds and supporting infrastructure. Southern California is prone to drought, and climate change is expected to exacerbate this issue. Prolonged droughts can reduce the availability of surface water and stress groundwater resources, affecting water supply and ecosystem health. Additional recharge capacity will help the Agency reduce dramatic swings in water availability through maximum importation of available wet year water for future conjunctive use. This project supports the planning efforts identified in the 2018 San Gorgonio Integrated Regional Water Management Plan, which provides a pathway for agencies and stakeholders to identify water management solutions that provide multiple integrated benefits to the communities within the San Gorgonio Region.

Western Municipal Water District of Riverside County, Maximizing Local Supplies and Improving Water Management: Project Design for Well 6 Project (Project Design Grants)
Reclamation Funding: $388,613 Total Project Cost: $777,226
The Western Municipal Water District (Western Water), located in Riverside County, California will design a new well for the Western Water's Arlington Desalter System. The 2020-2021 water year was the second driest year on record and January-March 2022 was the driest three-month period in California history. As a result, southern California experienced drastic water restrictions on imported supplies. Western Water is designing a new well in the Arlington groundwater basin to help improve water management through stabilization of groundwater levels and maximizing the amount of water pumped to its Arlington Desalter. Design of a new well will reduce the demand on imported water supplies from the Bay-Area Delta in northern California, while also increasing regional drought resiliency. The project addresses long term goals of increasing water reliability identified in Western Water's Drought Contingency Plan, developed with assistance from a WaterSMART Drought Contingency Planning Grant.

Westland Water District, Westland's Lateral Interconnection Project (Project Design Grants)
Reclamation Funding: $200,000 Total Project Cost: $400,000
Westland's Water District, located in Fresno County, California, provides water to a major agricultural production area. The reliability of the District's surface water supply is threatened by unpredictable weather, climate change, ever-changing hydrology extreme variation in yearly allocations, and regulatory challenges. The District will plan and design modifications to optimize the use of existing infrastructure at Lateral 6 and Pumping Plant 6-2 and to diversify the District's water supply portfolio. The results of the project will support reverse pumping into the San Luis Canal, enabling the District to convey flood flows and annual transfers from the Mendota Pool, providing the District with additional water sources and operational flexibility to

support its growers. The project will support the goals of the 2019 Westside-San Joaquin Integrated Regional Water Management Plan.

Colorado

City of Glenwood Springs, Glenwood Springs Veltus Park Groundwater Wells Project (Project Design Grants)
Reclamation Funding: $200,000 **Total Project Cost: $400,000**
The City of Glenwood Springs, located in Garfield County, Colorado, will test and design a well field and manifold pump system in the City's Veltus Park. Located in a valley with steeply inclined terrain, Glenwood Springs' surface water supplies are especially vulnerable to events that create high water turbidity, such as debris flows generated from high-intensity rainstorms. As a result of the 2020 Grizzly Creek Wildfire, high turbidity events caused by debris flows occur between six to ten times per year, requiring the City to turn off the water plant and interrupt deliveries. The Veltus Park Groundwater Wells will be unaffected by high turbidity events and can continue to provide water to Glenwood when surface water sources need to be shut down. This project will address water infrastructure improvement goals in regional comprehensive plans including the Garfield County comprehensive Plan and the Glenwood Spring's Comprehensive Plan.

City of Gunnison, City of Gunnison Water Treatment Plant Project (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $800,000**
The City of Gunnison, located in central Colorado, will complete design for a surface water treatment plant on the City owned Van Tuyl Ranch to treat water from the Gunnison River. The City is currently solely reliant on groundwater. The City is being proactive about possible threats including contamination of the groundwater aquifer, which would negatively impact water quality, leading to a public health crisis. By designing the water treatment plant to treat both groundwater and surface water sources, the City will have the operational flexibility to respond to a number of water supply threats, such as forest fire runoff, drought, or aquifer degradation. This project supports the City's 2021 Water Master Plan to ensure the long-term viability of quantity and quality of water resources and meet projected water demands over the 20-year planning period.

Coalition for the Poudre River Watershed, Fish Passage & River Resiliency Design for the Whitney and B.H Eaton Reach of the Cache la Poudre River (Project Design Grants)
Reclamation Funding: $287,211 **Total Project Cost: $383,295**
The Coalition for the Poudre River Watershed, located in northern Colorado, will partner with the Town of Windsor, Colorado Parks and Wildlife, and Northern Water Conservancy District to design an upgrade of the Whitney and Eaton diversion structures, including fish passage, and river restoration projects on a half mile of the surrounding Poudre River. The current diversion structures are a complete barrier to fish passage and this reach is river is disconnected from its floodplain. Once complete, the design will support a future project by the partnership to restore the reach of river, and reestablish 13 miles of the Poudre to be passable by fish, while providing

benefits to the local ditch companies by increasing the water supply reliability of their structures. This project is supported by multiple planning efforts and is in a priority reach identified in the Coalition for the Poudre River Watershed's 2017 Lower Poudre Flood Recovery and Resiliency Master Plan.

Left Hand Watershed Oversight Group, Haldi Intake Engineered Designs (Project Design Grants)
Reclamation Funding: $375,000 **Total Project Cost: $500,042**
Lefthand Watershed Oversight Group, located in Longmont, Colorado, in partnership with Left Hand Water District and Left Hand Ditch Company will develop engineered designs, specifications for construction for a ditch enhancement and watershed health project at the Haldi Intake. The Haldi Intake is located at a critical point in the transition zone within the Left Hand Creek ditch system that impacts ecological health across the entire watershed. The project will evaluate multiple upgrades at the Haldi intake diversion, including traditional solutions and nature-based features such as low floodplain benches and wetlands, instream habitat, and bank erosion repairs to develop a fully integrated design. This design project will support improvements that address climate change-driven drought, wildfires and post-fire impacts, aging water infrastructure, and legacy mining impacts. The project is a high priority in the Adaptive Management at Scale Plan and Framework for Watershed Restoration Across the St. Vrain Basin.

The Nature Conservancy, San Juan River Ecosystem Restoration Project Planning and Design (Project Design Grants)
Reclamation Funding: $399,550 **Total Project Cost: $561,800**
The Nature Conservancy, in partnership with The Navajo Nation, will plan and design river ecosystem restoration projects along the San Juan River. The San Juan River Basin is home to two federally endangered fish: the Colorado pikeminnow and razorback sucker. These species face multiple impediments to recovery, the most significant being the loss of nursery habitat. The project team will conduct a comprehensive analysis to identify suitable backwater nursery habitat restoration sites; use extensive community and expert input from the San Juan River Basin Recovery Implementation Program (SJRIP) and the Nation to select two priority sites to undergo detailed analyses and final design. The project will occur on the mainstem of the San Juan River in the segment which includes Utah, Colorado, New Mexico, and the Nation. The project will build on extensive previous planning and analyses conducted by experts and the SJRIP which includes federal, state, Tribal, non-government organizations, and water user representatives.

Town of Paonia, Watershed and Water System Strategy Plans for Resiliency in the Face of Change (Water Strategy Grants)
Reclamation Funding: $250,000 **Total Project Cost: $500,113**
The Town of Paonia located in Delta County, Colorado will conduct a holistic and comprehensive investigation to develop a water strategy to increase drought resiliency, mitigate wildfire hazards, and improve its water infrastructure. The Town collects its raw water from spring systems which have been impacted by declining snowpack. This watershed has

experienced reduced summer flows and the springs are vulnerable to surface contamination, drought conditions, and wildfire impacts to water quality. Through this planning effort, Paonia will analyze past trends and develop future water supply projections, assess the state of existing infrastructure, perform water marketing and water rights analyses, identify and prioritize infrastructure work that will mitigate changes from longer droughts and increasing heat, and examine wildfire impacts and mitigation methods. Data developed through the study will contribute to the Colorado Water Plan database and provide guidance to the town's Capital Improvement Plan. Paonia will engage local stakeholders in this planning effort, including the U.S. Forest Service, agricultural users, public land managers, water districts, farming and ranching associations, and community organizations.

Guam

Guam Waterworks Authority, Santa Rita Springs Rehabilitation (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $950,000**
The Guam Waterworks Authority (GWA), located on the United States island territory of Guam in the western Pacific Ocean, will design an upgrade to the Santa Rita Springs Facility to enhance and protect production from available resources. A majority of water for the central part of the island is purchased from the US Navy. The spring upgrade will be designed to capture the maximum volume of spring discharge by the addition of a cutoff wall, collection system, associated pumps and automatic diversion valves. The maximizing of water from the spring will lead to reduce costs and strengthen a reliable water source in the Central Water System on the island of Guam. The project has been approved and included on the Fiscal Year 2022-23 Safe Drinking Water Infrastructure Grant Project Priority List.

Idaho

City of Pacatello, Portneuf River Oxbow Restoration Project (Project Design Grants)
Reclamation Funding: $391,875 **Total Project Cost: $522,500**
The City of Pocatello, located in southwest Idaho, will design the Portneuf River Oxbow Restoration Project. Much of these valley bottom lands were disconnected from the Portneuf River by linear infrastructure, especially railroad tracks, flood control channel, and levees. These structures eliminated the river’s adjacent wetlands, reducing water quality, groundwater recharge, aquatic and riparian habitat, and overall biodiversity in the valley. The project design will include diversions under the railroad tracks, adjacent land grading and planting with native species to reactivate over 100 acres of floodplain. This restoration design project is expected to help the City improve sediment loads in the river, improve water quality, and reduce flood risks. Participating partners include the Shoshone-Bannock Tribes, Idaho Department of Environmental Quality, Idaho Department of Fish & Game, and US Fish & Wildlife Service. This project will address the goals of the 2016 Portneuf River Vision Study which prioritizes this project as a means to improve water quality, boost biodiversity, and restore ecological functions of the river.

Friends of the Teton River, Developing a Teton Creek Community Water Plan: Addressing Water Useand Supply for Multiple Uses in the Upper Teton Watershed (Water Strategy Grants)

Reclamation Funding: $400,000 **Total Project Cost: $588.884**

The Friends of the Teton River, located in Driggs, Idaho, will partner with the City of Driggs, Grand Teton Canal Company, and other local stakeholders to develop a strategy to prioritize infrastructure modernization projects, improve water management strategies, and address aquatic restoration objectives. The Friends of the Teton River is a watershed group that was formed through a 2016 WaterSMART Cooperative Watershed Restoration Program grant by a diverse group of stakeholders, including farmers, anglers, scientists, local agencies and conservation organizations concerned by the declines in the health of the Teton River. The Teton River has been impacted by declining aquifer levels, land use changes, and stream flow alteration, resulting in chronic stream dewatering, high levels of sediment mobilization, and vulnerabilities in Yellowstone Cutthroat Trout populations. The partners will conduct detailed research, and analysis to develop preliminary design and costs, and legal and environmental requirements for prioritized projects. The partners will seek input from stakeholders through facilitated meetings. This project is supported by The Nature Conservancy, the Teton Creek Flood Control District, LegacyWorks Group, and the project partners.

Kansas

Southwest Kansas Groundwater Management District No.3, SmartPLAN: A Plan for Action to Address the Declining High Plains Aquifer in Southwest Kansas (Water Strategy Grants)

Reclamation Funding: $306,554 **Total Project Cost: $713,402**

The Southwest Kansas Groundwater Management District No. 3 (GMD3) will develop action plans to address groundwater concerns in at least six priority areas currently being identified within its boundaries. District water users, who are primarily agricultural irrigators, face water supply threats from the depletion of the High Plains Aquifer, poor water quality in the Arkansas River that increases reliance on groundwater supplies, and the need to balance agricultural production with ongoing efforts to restore native grasses and prairie in the Sand Hill area. The SmartPLAN (Prioritize, Learn, Actuate, Navigate) project will provide a framework for local water users to collaboratively form action plans to reduce water use, mitigate the effects of overuse, and restore wildlife ecology, while being better positioned to handle drought and severe weather events brought about by climate change. As part of the project, GMD3 will update its hydrologic model to help identify where less water-intense crops can be grown or where irrigated areas should be converted to dry land, and to identify short-term and long-term costs and benefits. The project is supported by the Upper Arkansas River Watershed Group, Wheatland Electric Cooperative, the Kansas Water Resources Institute, the City of Garden City and other stakeholders.

Montana

Sun River Watershed Group, Project Planning and Prioritization for Resilience in the Sun River Watershed (Water Strategy Grants)
Reclamation Funding: $200,000 **Total Project Cost: $265,000**
The Sun River Watershed Group, located in Central Montana, will develop an overarching water strategy for the watershed, working in collaboration with a network of stakeholders representing conservation, farming and ranching, and ecological interests. Numerous prior planning efforts have been completed for the Sun River Watershed and there is a need for a strategy that prioritizes projects across these efforts in order to ensure a holistic approach. The watershed group will compile past plans, review previously completed projects for effectiveness, and develop a strategic plan to prioritize future work based on benefits to water conservation, drought mitigation, water quality, and ecosystem resources. Committed partners and stakeholders include Greenfields Irrigation District, Fort Shaw Irrigation District, Bureau of Reclamation, Bureau of Land Management, Montana DEQ, Montana Department of Natural Resources, and Montana Fish, Wildlife and Parks, Trout Unlimited, and others.

New Mexico

Albuquerque Bernalillo County Water Utility Authority, Arroyo del Oso Aquifer Storage and Recovery Project (Project Design Grants)
Reclamation Funding: $400,000 **Total Project Cost: $800,000**
Albuquerque Bernalillo County Water Utility Authority, located in central New Mexico, will design the Arroyo del Oso Aquifer Storage and Recovery Project, including new injection and recovery wells, well houses, and associated piping to divert water from the existing distribution system and injected directly into the Middle Rio Grande Basin Aquifer. The Authority's surface water supply reliability is at risk due to increased periods of drought. Once constructed, the project will increase capacity for water recharge and storage for future use, which will benefit the Authority's service area by ensuring a sufficient water supply is maintained in periods of water scarcity. This aquifer storage and recovery project is an important water supply alternative for long-term water management identified in the Water Authority's Water 2120 Plan that focuses on optimizing and diversifying water supplies and creating a more sustainable, climate change-resilient water system.

Santo Domingo Pueblo, Santo Domingo Pueblo Natural Resources Department - Strategic Water Management Plan Development (Water Strategy Grants)
Reclamation Funding: $299,958 **Total Project Cost: $399,944**
The Santo Domingo Pueblo in New Mexico will develop a strategic water management plan to identify improvements to irrigation infrastructure that will increase water supply reliability for farmers and improve watershed health and biodiversity. The Pueblo receives water deliveries from the Middle Rio Grande Water Conservancy District, a Bureau of Reclamation project. Intensive agricultural water use, coupled with extreme drought, have decreased the quantity and quality of water available for people and the environment on the Middle Rio Grande River. In 2022, a large stretch of the Middle Rio Grande River ran dry for the first time in 40 years,

allowing invasive species to flourish, and impacting habitat for endangered species, including the Rio Grande Silvery Minnow. Planning efforts will rely on modern science and Traditional Knowledge, and will include the collection of aerial imagery, inventory and creation of a database of irrigation facilities on Pueblo land, development of a water balance model, and identification of projects to improve water use efficiency and to maximize benefits to farmers and the environment. The Pueblo will engage with the Middle Rio Grande Conservancy District, the Bureau of Indian Affairs, and multiple stakeholders within the Pueblo.

Oregon

City of Klamath Falls, Recycled Water Strategy for Groundwater Conservation and Klamath River Nutrient and Temperature Reduction Project (Water Strategy Grants)
Reclamation Funding: $345,000 **Total Project Cost: $461,803**
The City of Klamath Falls, Oregon, in partnership with the South Suburban Sanitation District, will develop a strategy to increase the supply and quality of recycled water to conserve the City's potable water supplies and improve the quality of discharges from the wastewater treatment plant to the Klamath River. Currently, the City does not recycle enough water from their wastewater treatment plant to meet power plant cooling tower requirements and is looking for options to improve treatment levels. Working together, the City and the District will develop a plan for joint operations of the City's sewage treatment plant and the District's lagoon treatment faclity to increase recycled water production and eliminate the use of potable water at the cooling tower, conserving the City's groundwater resource for domestic needs. They will further collaborate to decrease the cost of upgrades needed to improve the water quality of discharges from the wastewater plant. The study will include outreach and partnership building, technical analyses to identify the facilities needed, and development of joint operating requirements and a framework for an intergovernmental agreement. The water strategy supports the goals of the U.S. Fish and Wildlife Service's 2023 Klamath Basin Integrated Fisheries Restoration and Monitoring Plan.

Texas

La Feria Irrigation District No. 3, New Water Strategy Plan for the La Feria Irrigation District (Water Strategy Grants)
Reclamation Funding: $175,810 **Total Project Cost: $351,621**
The La Feria Irrigation District Cameron County No. 3 (District) in Cameron County, Texas will develop a new water strategy to address water shortfalls. The District is located in the Lower Rio Grande Valley in the southernmost corner of Texas on the border with Mexico. The District pumps water from the Rio Grande River to supply water to the cities of La Feria and Santa Rosa, Sebastian Municipal Utility District, colonias, and farmers. This area has suffered from ongoing drought and reductions in Rio Grande River diversions due to historically low water supplies. The District will work with farmers and municipal system customers to develop a water strategy to identify projects to improve water management, identify alternative water supplies, and expand conservation practices. Through this planning effort, the District will develop information and analyses critical to improving water management, including environmental

reviews, drone imagery, GIS mapping, a drainage study, population projections, and a water rate study to evaluate options to support future infrastructure improvements.

Utah

Providence City, Providence City Culinary Well Project 2023 (Project Design Grants)
Reclamation Funding: $400,000 Total Project Cost: $998,270
Providence City, located in Cache County, Utah, will explore and design two new culinary wells. Each of the wells include a new well house, interconnected piping, well equipment, Supervisory Control and Data Acquisition (SCADA) system, chlorination/disinfection equipment, and other necessary well equipment. Northern Utah frequently experiences periods of drought that can lead to reduced groundwater recharge, lower spring and well yields, and increased competition for limited resources. The project will address the water supply deficiencies created by drought conditions and will increase reliability and redundancy, as identified in the City's 2022 Culinary Water Master Plan.

Woods Cross City, South Davis County Water Sustainability and Resilience Planning Project (Water Strategy Grants)
Reclamation Funding: $204,950 Total Project Cost: $409,900
The City of Wood Cross City, located in Davis County, Utah, will develop a water strategy to address depletion of groundwater resources that are the primary source of culinary water in the area. The City is facing several threats to their groundwater supplies, including significant drought impacts between 2010 and 2022 and contamination from refineries and other industries. The strategy will assess the status of the aquifer, model the potential progression of identified threats, and a create a plan prioritizing solutions for managing groundwater resources sustainably. Through this planning effort, the City will evaluate the potential for water reuse, groundwater recharge, and water conservation education to sustainably manage groundwater resources. A web-based collaboration portal, including GIS-based tools, will be created to facilitate communication between project team members, stakeholders and the public. Committed partners and stakeholders include Weber Basin Water Conservancy District, Bountiful City, City of North Salt Lake, West Bountiful City, South Davis Water District, and south Davis Sewer District.

Washington

Swinomish Indian Tribal Community, Swinomish Integrated Water Resources Management Plan
Reclamation Funding: $400,000 Total Project Cost: $400,000
The Swinomish Indian Tribal Community (SITC) is located on the southeastern peninsula of Fidalgo Island in western Skagit County of Washington State. The SITC will develop an Integrated Water Resources Management Plan using an integrated approach to manage water resources across tribal jurisdictions to achieve operational synergies, to meet the current and future needs of the Swinomish community, and to sustain the natural environment. The comprehensive plan will improve and ensure the reliability of the water supply for a

disadvantaged community and will ensure the management of tribal water, wastewater, and storm water systems, and the protection of source water. The Swinomish Utility Authority and the Planning and Community Development Department have been working together to move the comprehensive water resources management project forward and public input is a key element of the planning process.