



— BUREAU OF —
RECLAMATION

FY 2024 Aging Infrastructure Projects

Arizona

Deer Island Backwater Infrastructure Replacement: \$1,000,000

This funding will go to replace debilitated water control infrastructure to provide greater control of flow and water levels within the backwater that is located within the Colorado River Indian Tribe Reservation.

Glen Canyon Outlet Works: \$8,945,000

To fund recoating of the outlet works, which consists of four steel pipes with cast iron bellmouth intakes, hollow-jet valves for regulation, and ring-follower gates for de-watering or emergency closure to ensure capability to meet downstream water commitments.

Bypass Drain O&M Access Road Repairs: \$2,500,000

This funding will go to develop, prepare, and haul road materials and install security fencing around stockpile sites to support repairs to the road used for operation and maintenance of the west bypass drain along the last 276 river miles of the Colorado River, to address accessibility issues and risk to users.

California

Livingston Stone National Fish Hatchery Permanent Chiller Plant: \$4,606,000

To purchase and install industrial air-cooled water chillers, heat exchangers, supply manifolds, and associated electrical switch gear and transformers for the fish hatchery chiller plant.

Pit River Bridge Replacement: \$32,500,000

This funding is provided to continue work on a planning study and environmental compliance efforts associated with replacement of the highway portion of the Pit River Bridge.

Wintu Transformer Replacement: \$2,295,000

This funding goes to replace the pumping plant transformer, relocate and connect the existing transformer as a backup, and dispose of existing backup transformer.

Livingston Stone National Fish Hatchery: \$25,286,000

This funding is to complete a planning study, design and implementation of a project to replace the hatchery building with modern aquaculture system. This includes replacement of adult holding ponds, rearing troughs and the upgrade or replacement of the head tower. It also includes installation of water and effluent treatment equipment, water cooling systems, a SCADA system for process control.

Shasta Power Plant Distribution Upgrades: \$13,265,000

This will fund completion of a planning study and then design and implementation of a project to modify transformers, conductors, protection and relaying of the power distribution system that services facilities around Shasta Powerplant, including Livingston-Stone National Fish Hatchery (LSNFH), Shasta Pumping Plant and Shasta Maintenance Center. Planning and environmental compliance activities will be completed before design and implementation.

Shasta Power Plant Restore Synchronous Condense Mode Capability: \$4,034,000

Funding will be used to restore systems and hardware on five generating units to achieve synchronous condense mode capability.

Shasta Power Plant Station Service Unit 1 Overhaul: \$15,400,000

Funding to complete the planning and environmental compliance activities and then the design and implementation to repair out-of-commission station service unit one rotor shaft.

Tracy Fish Facility Louver Replacement: \$25,000,000

Funding is provided to complete a planning study, and then design and implementation upon completion of environmental compliance on a project to modify Tracy Fish Facility Louver Pier and Crane to meet current facility needs and modern structural standards.

O'Neill Pumping/Generating Plant Upgrades Project: \$11,600,000

Once planning and environmental compliance are completed, funding will go to design and implementation of a unit rewind, a governor upgrade, new pump bowl design and fabrication, pump assembly, and penstock rehabilitation.

New Melones Power Plant Rewinds: \$19,700,000

Funding is provided to finalize a planning study, and for design and implementation of a project to rewind generators, install an air baffle system, install two new neutral grounding transformers, and replace sensors, heaters and brakes. Funding is provided to finalize a planning study, and subsequently for design and implementation.

Spring Creek Power Plant Runner Replacements: \$4,000,000

Funding will be used to replace turbine runners on units one and two as well as upgrade existing auxiliary systems.

Delta Mendota Canal Subsidence Correction: \$50,000,000

Funding is provided to finalize a planning study and may subsequently be used for design and implementation after acceptance by Reclamation of the study to correct for groundwater subsidence impacts to the Delta Mendota Canal.

Tahoe Dam Extraordinary Maintenance Justification Study: \$3,502,000

Funding is provided for the planning study and associated environmental compliance on a project to conduct an extraordinary maintenance justification study evaluating repair/replacement of Tahoe Dam in accordance with Reclamation and Departmental guidance. The study will analyze any non-federal beneficiaries and recommend appropriate actions to repair/replace Lake Tahoe Dam.

Stony Gorge Spillway Gate Rehabilitation: \$1,300,000

Funding is provided to continue the previously funded planning study and environmental compliance activities, and subsequently for design activities on a project to rehabilitate or replace all three spillway gates at Stony Gorge and related gate operating equipment.

Colorado

Collbran Collection System Study: \$221,810

Funding is provided for a planning study to plan and design a vault and gate on the collection system on the Bonham pipeline and replacement of the existing valves near Cottonwood.

Pole Hill Afterbay Repair: \$4,000,000

Funding to stabilize the Pole Hill Powerplant afterbay and repair the siphon conduit to resume safe operation.

Flatiron Embedded Pipe Rehabilitation: \$1,700,000

Funding to rehabilitate or replace several runs of small diameter, concrete embedded metallic water pipe within the Flatiron Powerplant.

Cunningham Tunnel Invert Lining Repair: \$1,539,000

Funding to repair scour holes within the water conveyance tunnel that pose a threat to the structural stability of the tunnel.

Leadville Mine Drainage Tunnel: \$34,100,000

Funding is provided to finalize and planning study and to construct a water treatment plant and deconstruct the old water treatment plant.

Kansas

Webster Dam Spillway Gate Rehabilitation: \$4,000,000

This funding is to remove and replace coatings, replace gate seals and grease lines.

Montana

Simms Creek Siphon Rehabilitation: \$5,066,562

This funding is to replace Simms Creek Siphon, including the demolition of the old structure, replacement of the siphon pipe, and replacement of the reinforced concrete inlet and outlet structures.

Nebraska

Medicine Creek Dam Concrete Repair and Access Improvement: \$4,600,000

Funding to construct a site access road including culverts at the outlet works discharge channel crossing. This will include saw cutting and removal of existing concrete from damaged areas within the spillway, chute and along the outlet works stilling basin walls. Furnish and place new concrete in repair areas and raise the outlet works walls by two feet. They will repair cracked concrete on the spillway bridge piers, seal and coat the upstream face of the spillway crest structure, the tops of the spillway chute and stilling basin walls, and the tops of the outlet works stilling basin walls.

New Mexico

El Vado Main Road Rehabilitation: \$2,500,000

The funding will go to rehabilitate the state park road accessing the main El Vado Lake State Park area. This roadway remains the only access road for the most highly visited part of the recreation area, which maintains the only boat ramp for motorized and non-motorized boating, 70 campsites, four large day use areas, restrooms, and a trail head connecting an adjacent state park. The poor condition of the roadway and parking lot create hazardous driving conditions for visitors towing trailers and inhibits visitor access to the popular recreation facilities.

San Acacia Reach Conveyance Access Roads and Channel Maintenance: \$600,000

This will fund maintenance and access to an area of the Middle Rio Grande where a conveyance improvement project will occur. This will create four segments of road to allow access to the area.

San Acacia Reach Conveyance Upper Bosque Del Apache River Realignment: \$10,700,000

This funding will go to a channel realignment project in the San Acacia Reach of the Middle Rio Grande. Through this and a larger project in the works, the river will be realigned for improved water conveyance from the Middle Rio Grande Project to the Rio Grande Project.

Elephant Butte Historic District Dam Site Lift Station and Fish Hatchery Septic System Rehab: \$650,000

Responsibility for funding and management of recreation activities has been returned to Reclamation. Approved improvements will make the recreation area more attractive for potential managing partners in the future with the intent to reduce future Reclamation O&M cost. Activities include adding two shelf spare pumps and a strainer for the inlet pipes at the dam site lift station. Remove leach field and septic tank at the Fish Hatchery Septic System. Requires site evaluation, soil analysis and percolation test to determine septic system location.

Elephant Butte Historic District Energy and Water Conservation Project: \$275,000

This funding would cover design of a smart irrigation system. It would also be used to perform analysis of solar panels to determine whether they would be beneficial to this area with historic district restrictions. The funding will also be used to purchase and install new windows that fit within historic buildings, but are more energy efficient than existing, non-historic windows.

Nevada

Marble Bluff Spillway and Sluiceway Extraordinary Maintenance Justification Study: \$5,520,000

This funding will be used to conduct an extraordinary maintenance justification study evaluating repair or replacement of Marble Bluff Dam baffled apron spillway and sluiceway. Funding is provided for the planning study and associated environmental compliance.

North Dakota

Fort Berthold Rural Water Treatment Plant Intake Mussel Infestation Prevention: \$3,247,000

Funding to replace the existing eight Lake Sakakawea intake screens with intakes fabricated with copper-based materials that discourage mussel attachment and growth. A copper sulfate based chemical delivery system would be installed from a chemical-feed building near the intake headwall out to the submerged intake screens.

Garrison Diversion Unit, Fort Yates Mainline Replacement Phase III: \$3,257,758

Funding to replace asbestos cement pipe with HDPE pipe and related appurtenances.

Garrison Diversion Unit, Fort Yates Power Line Replacement: \$1,700,000

Funding to replace deteriorated buried power lines and appurtenances. Fort Yates power lines are now prone to failure and have become unsafe.

Garrison Diversion Unit, Standing Rock Rural Water Area SCADA and Meter Installation: \$500,000

Funding to install three master meter vaults and upgrade SCADA at two control vaults on the Standing Rock Indian Reservation.

Garrison Diversion Unit, Standing Rock Hilltop Tank Replacement: \$2,858,688

This funding will replace a 370,000-gallon, high bolted stainless-steel tank, including sitework and appurtenances.

Garrison Diversion, Standing Rock Rural Water Treatment Plant Chemical Feed Building Rehabilitation: \$1,556,875

This funding will go to the rehabilitation of a chemical feed building and clean in place room, and upgrade of the sidewalk.

Turtle Mountain Public Utility Commission Raw Waterline Replacement: \$12,789,040

Funding to replace undersized raw water collection lines from the confluence of Thorne and Rolette wellfields to the Water Treatment Plant. The scope includes design and construction of roughly seven miles of 24" HDPE main, air release valves, pigging stations, flush hydrants, gate valves, system interconnections, and seeding/mulching for erosion control.

White Shield Community Metering Project: \$1,538,000

Funding to install approximately 158 water meters on existing water service connections in the community. This project would install meter pits with backflow prevention devices, meters, and automated meter infrastructure end-reads so the meters can be remotely read by Fort Berthold Rural Water.

Oklahoma

Altus Gate Replacement: \$24,980,000

This funding is provided to finalize a planning study. It may be subsequently used for design and implementation of the project to replace nine spillway radial gates, gate arms, pins, trunnion beams, and cables. The project will also include rehabilitation or replacement of the spillway gate hoists, dam electrical and control equipment, coating system on spillway bridge, canal outlet works fixed wheel gate hoist and wasteway radial gate.

Oregon

Oregon Recreational Sites Utilities Modernization: \$5,030,000

This funding is for planning and environmental compliance and then design and implementation of a project to replace water, sewer, and electrical systems. Efforts will mitigate concerns of potential turnback risks proposed by managing partners.

Umatilla Project Pumping Plants Pump and Motor Replacement/Refurbishment: \$544,000

This funding goes to rehabilitate or replace a pump and motor at the project.

South Dakota

Mni Wiconi Project, Oglala Sioux Tribe, Emergency Generators at the Water Treatment Plant and Raw Water Intake Pump Station: \$2,600,000

This will fund installation of two generators, transfer switches, and appropriate controls at the water treatment plant and the raw water intake pump station. Both facilities are currently without backup power generation. The generators are sized to provide minimal level of service to sustain operations during a short-term power outage.

Mni Wiconi Project, Oglala Sioux Tribe, Raw Water Intake Pump Station Improvements: \$4,500,000

This funding will go to maintenance improvements to pump stations. It will include improving building/architectural features, process pumping, piping, and valving; mechanical systems, electrical components and instrumentation/controls.

Mni Wiconi Project, Oglala Sioux Tribe, South Core Pump Station 2 Improvements: \$2,200,000

This project includes maintenance improvements to the following pump station asset groups: building/architectural features; process pumping, piping, and valving; mechanical systems; electrical components; and instrumentation/controls.

Mni Wiconi Project, Oglala Sioux Tribe, South Core Pump Station 3 Improvements: \$1,300,000

This project includes maintenance improvements to the following pump station asset groups: building/architectural features; process pumping, piping, and valving; mechanical systems; electrical components; and instrumentation/controls.

Mni Wiconi Project, Rosebud Sioux Tribe, Saint Francis Water Storage Replacements: \$4,800,000

This funding will replace two leaking storage tanks with a single 600,000-gallon water storage tank in Saint Francis. The project includes design, bid, administration, construction and electrical for the replacement structure and the cost to demolish the existing storage reservoirs. The existing tanks leak, despite multiple repairs. The replacement single structure will improve usable storage to the area and reduce maintenance of dual structures.

Mni Wiconi Project, Lower Brule Sioux Tribe, West Brule Spheroid Water Tower Replacement: \$2,883,900

This funding is to replace an existing water tower with a 300,000-gallon Spheroid Water Tower and related appurtenances. These include a water main, control room, demolition of the existing water tower, site work, access road resurfacing, seeding and erosion control. This funding will cover design, construction and administration. The new water tower will provide for additional required system storage for proper system operation.

Mni Wiconi Project, Oglala Sioux Tribe, Zebra Mussel Mitigation: \$400,000

This project will add a chemical control system and replace the existing intake screens with copper-based metal screens to mitigate Zebra mussel impacts.

Mni Wiconi Project, Oglala Sioux Tribe, Zone 1 and Zone 2 Waterline Replacement: \$49,900,000

This will fund completion of the planning study and subsequent design and construction to replace about six miles of steel waterline. These sections of pipeline have been problematic over the past four years and have experienced numerous leaks that are often expensive and difficult to repair.

Angostura Dam Concrete Spillway Repair and Powerplant Access Road: \$9,000,000

This funding will be used to improve the Angostura powerplant access road and extend the temporary access road into the river channel downstream of the spillway. This includes removal of deficient concrete from the spillway face and replacement of concrete to create a smooth laminar flow over face of dam.

James Diversion Dam Auxiliary Spillway: \$6,000,000

This funding is to evaluate, plan, design and construct bank stabilization and address excessive soil erosion in and along the banks of the auxiliary spillway. Funding is provided for a planning study and associated environmental compliance activities, and subsequently design and implementation.

Shadehill Dam Replace Ladders, Platforms and Electrical: \$865,500

This funding will be used to disassemble and replace platforms, guardrails, safety devices, ladders and electrical in the gate house and lighting in the radial gate shaft. This will include installation of safety devices on existing ladders and platforms in the slide gate shaft and adding lighting to slide gate shaft.

Utah

Deer Creek Intake Project Modify Intake, Construct Bypass, Refurbish Guard Gates: \$10,000,000

This project will modify the existing outlet works intake structure to accept a bulkhead plug to isolate the outlet works tunnel to refurbish the original guard gates. This includes construction of a new 72-inch bypass through the mountain on the left abutment of the dam by micro-tunneling methods.

Washington

Leavenworth Fish Hatchery Surface Water Intake Rehabilitation: \$2,000,000

This funds a project to rehabilitate the pipeline and diversion structure of the fish hatchery surface water intake.

Roza Fish Screen Modifications: \$13,400,000

The current fish screening system at the Roza diversion is not in compliance with current screening criteria and has excessive maintenance costs. This project will modify the fish screens to include an in-river, self-baffling and self-cleaning, rotating wedgewire T-Screen system. This will provide the most benefits to fish and still supply the needed volume of irrigation and power generation water.

Wyoming

Fort Laramie Canal Tunnels 1 and 2 Rehabilitation Project: \$52,500,000

This funding goes to reconstruct/replace two water delivery tunnels on the Fort Laramie Canal, along the original tunnel alignment. Funding is provided for design and implementation after completion of the previously funded planning study and associated environmental compliance activities, and acceptance by Reclamation of the study.