

**TUOLUMNE UTILITIES DISTRICT  
FY 18 CAPITAL IMPROVEMENT PROGRAM  
STATUS-AT-A-GLANCE AS OF MARCH 13, 2018**

Project	Water	Sewer	Map No.	Map Location	Description	FY18 Budget	Total Project Cost	Status	Status Code
Phoenix Dam Improvements-Phase 1			4	1	Scope of work for improvements to Phoenix Lake Dam in accordance with annual Division of Safety and Dams inspection.	\$25,000		TUD plans to hire a consultant to design the repairs. At this point a consultant has not been selected.	G
Phoenix Lake Preservation and Restoration Plan			4	2	The budgeted amount reflects ancillary costs such as consultant travel, lodging, etc., which are not eligible for reimbursement under the grant program.	\$5,000	\$6.1 million	Permit acquisition is on-going. Plans are approximately 70% complete. CEQA document has been adopted. Sediment samples were collected on the lake in September. <b>(Note: Grant funding received: \$4.75 million. TUD cost: \$1.2 million)</b>	G
Annual Ditch Improvements			18	20	Annual maintenance to fix leaks, raise sidelines, clean weed choked areas, eliminate hazard trees, and repair spills at various locations along the ditch.	\$100,000	\$500,000	The Board adopted the CEQA document in September.	G
Crystal Falls Techite Replacement-Phase 1			5	3	This project is the first phase of a project that will eventually replace 9,000 linear feet of Techite Pipeline from the Crystal Falls Water Treatment Plant down to Rhine Court. Replacement of this line will result in less labor, equipment and material costs associated with repair efforts multiple times per year.	\$260,000	\$695,796	Staff will be evaluating contracting for design and construction of the techite replacement in a multi-year phased approach to this capital improvement. Design will proceed in FY18.	G
Sonora Distribution Improvements				4	First phase of a multi-year effort to eventually replace 4,750 linear feet of old water mains within the city of Sonora (Green, Bradford, Stewart Streets) that have exhibited a high incidence of failure resulting in costly repairs.	\$225,000	\$1.04 million	The District has filed a CDBG application for funding in conjunction with the City of Sonora. Because of this funding opportunity, the project start date will be determined based on the CDBG funding determination process.	O
Matelot Pipeline			6	5	This project will install a pipeline connecting the Matelot Reservoir to the Columbia Water Treatment Plant in order to greatly improve efficiency and raw water quality at the plant.	\$60,000	\$395,000	Topographic surveying and easement acquisition are on-going.	G
Ditch Meters			18	21	Install an estimated 550 battery operated mag meters (iPerl) and customer side gate valves on ditch turnouts throughout the system.	\$65,000	\$126,500	Staff has completed testing of the meters and has ordered 165 meters to replace existing ditch meters. The meters will be replaced in accordance with staffing priorities and budget allocations.	G
Upper Columbia Ditch Shoot Flume			7	6	Replace leaky exposed pipeline segments that are critical to deliver source water for 4,000 customers.	\$20,000	\$180,000	The Board adopted the CEQA document in September which precluded the FY18 ditch outage timeframe. Project will need to be rescheduled to the FY19 Ditch Outage.	O

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Apple Valley/Scenic View Intertie				7	This project involves the design, permitting, and right-of-way acquisition to undertake a multi-year effort to connect the Scenic View Water System to the Apple Valley Water System. The ultimate project will entail constructing a new tank, new water main, and controls.	\$60,000	\$630,625	The project is being developed and the District is working with PG&E to supply power to the location. Valve vault and automated valves are on order.	G
Upper Columbia Spill #1			7	8	This cost will fund the environmental review and land acquisition. The project will replace a section of wrapped steel pipe spanning an unstable slope at Spill #1 of the Columbia Ditch.	\$20,000	\$93,438	The Board adopted the CEQA document in September which precluded the FY18 ditch outage timeframe. This project is now scheduled to be completed to coincide with ditch outage in Fall 2019.	O
Cuesta Heights Tank-Phase 1			8	9	The first two phases of a 4-year project to design, construct and consolidate three water tanks into one 600,000 gallon treated water storage tank. The project will also replace the Saratoga Pump Station with a new pump station and improve system reliability and fire flow.	\$50,000	\$2,281,876	The funding application is complete and has been submitted to the SWRCB. TUD is awaiting an offer of funding.	G
Peer Review of Ditch Loss					This project will evaluate existing ditch water loss studies to facilitate greater understanding of the quantity of water lost for various reasons along the open ditch system. Project will provide better insight on how to prevent or reduce water loss.	\$5,000		Staff continues to collect data from the parshall flumes. Once a sufficient amount of data has been collected, staff will conduct its analysis and seek peer review.	G
Enterprise Resource Program 70%			9		New financial management and utility billing software system to replace existing system which is no longer supported by the software vendor. Project to be financed over several years. Budget represents the water fund's allocation of cost. Sewer share budgeted separately.	\$137,500	\$396,000	The Board awarded a contract to Tyler Technologies in February for enterprise software for the District. An implementation timeline is being developed and is estimated at 12 to 18 months.	G
O'Neil Tunnel Repairs				10	The O'Neil Tunnel, which conveys water from the Table Mountain Ditch upstream of the O'Neil Reservoir, may be registering ground movement at the exit of the tunnel. A geotechnical engineer will conduct an assessment of the tunnel and to recommend methods to stabilize the tunnel. This budgeted amount includes identified necessary repairs.	\$100,000	\$100,000	Based on analysis performed by Condor Earth Technologies staff is reviewing options for project completion. Topographic surveying is being completed to support the next step in the design process.	G
General Distribution Improvements				22	This project funds the cost of water distribution improvements that may be installed from year to year in areas affected by leaks and breaks and for which a larger improvement is deemed necessary in lieu of only an instant repair.	\$50,000	\$50,000	This funding is used for ad hoc repairs at they arise from time to time.	G
Vehicle Replacement					Replacement of trucks (4) and trailers (3) and exhaust brakes (2 vehicles). Budget represents the water fund's allocation of cost. Sewer share budgeted separately.	\$251,000	\$391,000	All four utility trucks have been put in service in various departments.	DB

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Capital Outlay Projects (Under \$50,000)					Some items include hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator, Sonora Vista tank power and telemetry. Budget represents the water fund's allocation of cost. Sewer share budgeted separately.	\$213,000	\$279,000	Completed: hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator.	G
Columbia Clearwell Rehab				11	Recoat the interior and exterior of clearwell.	\$275,000	\$717,563	The interior coatings have been completed and disinfected. The exterior coatings of the clearwell tank are expected to be completed in the next two weeks, weather permitting. It is estimated that the clearwell will be put into service by April.	G
General Raw Water System Improvements				23	Project to provide interim water supply to Upper Basin Water System to offset storage lost at Lakewood Dam Reservoir.	\$250,000	\$250,000	Staff has completed a temporary pump station to take water from THCS. Staff continues to work with FEMA on the Lakewood Dam improvement project.	G
San Diego Dam Outlet Lining				12	Per the Division of Safety of Dams requirements install 150 feet of new 8" CIPP with new intake screen and valve.	\$25,000	\$25,000	TUD has received approval from DSOD to simply monitor the condition of the pipe with future camera inspections. No lining or rehabilitation is required at this time.	G
Shaws Flat Pipeline at Pedro Y				13	Relocation to accommodate a County project per Caltrans requirements. TUD is working with County and Caltrans to determine scope of relocation.	\$250,000	\$250,000	Field crews have completed the portion 2,000 feet of the water main pipeline extension from Sawmill Flat up to the Union Hill property. Construction anticipated to occur in Spring 2018.	G
Jamestown Transmission Main Replacement				14	To install 1,500 linear feet of 14-inch pipeline to replace a 14-inch asbestos cement pipe that is approximately 60 years old and serves as the sole source of water to the Jamestown service area. Amount not covered by CDBG.	\$130,000	\$130,000	Pipe has been purchased. The Board has adopted the CEQA document.	G
Algerine Ditch Slum Dam				15	CEQA and permitting.	\$25,000	\$25,000	The Board adopted the CEQA document in September.	G
Crystal Falls Pump Station and Retaining Wall				16	Permitting, removal of pump station, and repairs to retaining wall.	\$100,000	\$100,000	This project is scheduled to be completed in FY18. Staff may approach this project in phases, beginning in late summer (FY19).	O
TUD Centralized Facility Repairs 70%				25	Construct needed improvements including fire sprinkler system repairs, landscaping, carpet replacement, pavement maintenance, installation of water efficient fixtures, and audio/visual upgrades to the Board and Conference Room. Budget represents the water fund's allocation of cost. Sewer share budgeted separately.	\$175,000	\$250,000	Resurfacing of the pavement at the TUD main facility and operational areas has been completed. All other work is in progress.	G

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Section 4 Ditch - Ryan Ct. Improvements			14		This project entails removing pipe and establishing open ditch to the area.	\$18,000	\$18,000	The first phase of this project has been completed which consisted of removing 100 feet of CMP pipe, re-establishing the ditch and applied shotcrete. Phase II is scheduled to be completed next year and includes removing approximately 180 feet of steel pipe, re-establish the ditch and apply shotcrete.	DB
<b>TOTAL WATER PROJECTS CIP FY</b>						<b>\$2,876,500</b>			
RWWTP Improvement-Phase 1				17	Construct improvements to the treatment processes at the Sonora Regional Wastewater Treatment Plant.	\$330,000	\$3.9 million	Recently installed equipment at the Regional Plant includes: Center Cans, a gear box, motors, and drives on the trickling filter distributor arms. Staff are starting an application for a construction grant to fund additional process improvements.	G
General Collection System Lining				24	This project reflects TUD's annual investment in rehabilitating select segments of its sewer collection system by using cured-in-place pipe.	\$120,000	\$585,000	Over 1,635 linear feet of sewer pipeline has been lined this fiscal year. This project has been completed.	DB
General Collection System Improvements				24	Repair and replace segments of pipe throughout the collection system as identified by CCTV inspections and action requests generated by sewer backups or overflows. Work is undertaken by TUD staff.	\$100,000	\$550,000	Ongoing work as needed.	G
Columbia Country Estate Lift Station Replacement				18	To construct a new sewer lift station to replace the old lift station. The new lift station will also have a generator, backup pumps, and an overflow sump in the event of a mechanical failure.	\$120,000	\$207,000	The building has been completed. The generator for the lift station has been installed. It is estimated that the lift station will be in operation by late March or early April.	G
Enterprise Resource Program 30%				9	New financial management and utility billing software system to replace existing system which is no longer supported by the software vendor. Project to be financed over several years. Budget represents the sewer fund's allocation of cost. Water share budgeted separately.	\$62,500	\$396,000	The Board awarded a contract to Tyler Technologies in February for enterprise software for the District. An implementation timeline is being developed and is estimated at 12 to 18 months.	G
Saratoga Lift Station Replacement			17	19	To construct a new sewer lift station to replace the old lift station. The new lift station will also have a generator, backup pumps, and an overflow sump in the event of a mechanical failure.	\$60,000	\$300,000	Easement has been obtained. Due to the poor condition of the Columbia County Estates lift station, staff is focusing on improving it prior to the Saratoga Lift Station. The sumps and pumps have been ordered. Staff is reviewing submittals.	G
Replace Vacuum Truck #63					Current truck needs to be replaced due to CARB requirements. Current truck is undersized for the line length that the District crews are trying to clean.	\$140,000	\$140,000	The vacuum truck has been received and put into service.	DB

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Vehicle Replacement					Replacement of trucks (4) and trailers (3) and exhaust brakes (2 vehicles). Budget represents the sewer fund's allocation of cost. Water share budgeted separately.	\$122,000	\$122,000	Sewer call truck has been put in service.	DB
Capital Outlay Projects (Under \$50,000)					Some items include hydraulic breaker for backhoe and excavator, trench plates, grizzly rock screen and separator, compaction wheel, rock bins at RWWTP, etc. Budget represents the sewer fund's allocation of cost. Water share budgeted separately.	\$66,000	\$279,000	Completed: hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator.	G
TOTAL SEWER PROJECTS CIP FY						\$1,195,500			

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