Rialto Water Services
Core Capital Improvement Projects Status

WATER SUBCOMMITTEE • AUGUST 28TH, 2025

Key Drivers Of CIP Investment:

Regulatory Requirements including permit compliance, safety and SSO mitigation, drive Priority CIP investments

Annual Asset Management Planning, condition assessments, and emergency incidence records, show where critical needs exist or reliability is compromised

Rate Impact outcomes can shape timing and prioritization of CIP investment, while **Inflationary Forces** affecting operating costs can put pressure on CIP investment

Key Supports, CIP Investment

Grant Funding of $14M obtained, can help offset CIP impact on ratepayers and fund key projects like AMI

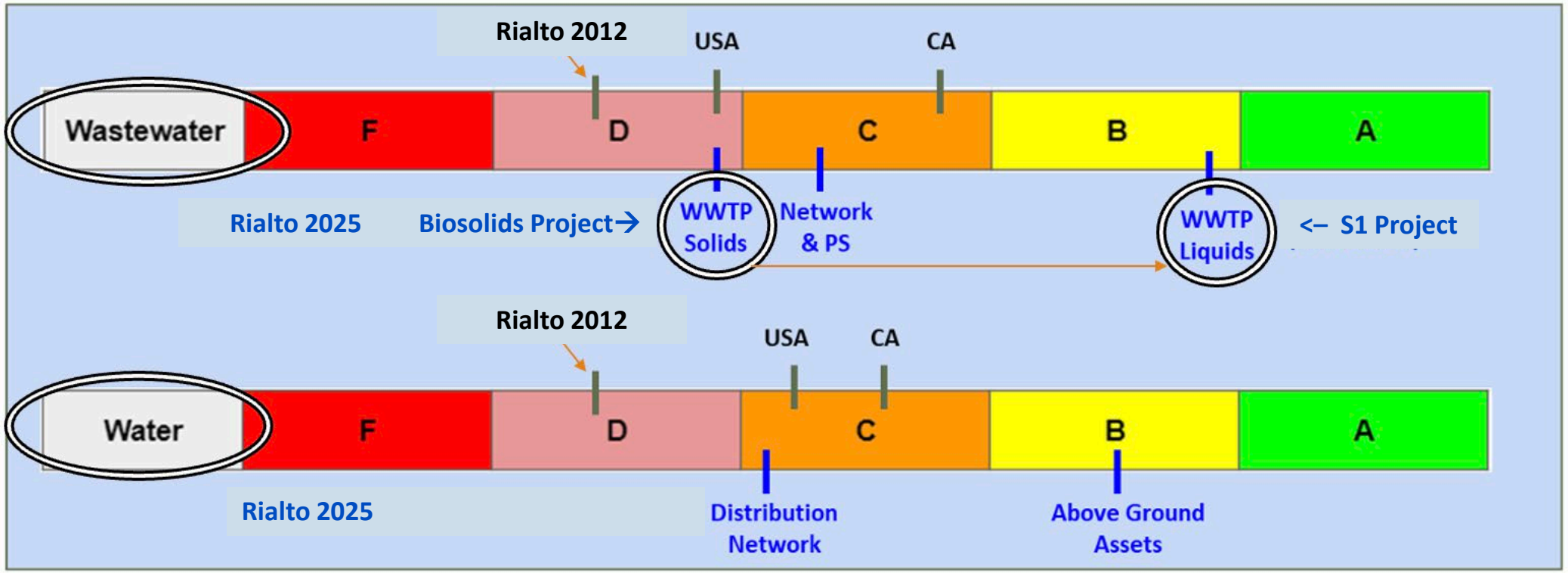
Reserves Funding of >$30M can help offset CIP impact on ratepayers and fund critically needed core upgrades like the Biosolids Project

Development Impact Funds of [$10.3M] can help offset growth-related CIP impact on ratepayers, and fund expansion projects like the Sewer Main upsizing

Rate-Supported Reserve Builds & Debt Funding can help smooth CIP impact on ratepayers

CIP Progress Update 2012 to 2025

Rialto's **Wastewater Utility** has significantly progressed on the "Liquids" side, with the investment in S1, and is about to progress on the "Solids" side, with the approval of the Biosolids Project. The Collection Network condition and Master Plan growth projections defines much of the need in Wastewater. Rialto's **Water Utility** needs now center around a Distribution Network with several 40-50-year old Water Mains, plus associated metering, storage, and wells capacity



5-Year Wastewater CIP

Wastewater Projects

This RWS table shows Priority Status CIP, including where Master Plan growth projections are driving CIP, where Criticality is driving CIP, and where Grant funding is driving CIP. Projects in red are shown but suggested for deferral with caution.

WASTEWATER PROJECTS				Spend by Fiscal Year				
Project Short Name	Status	Condition Rank	Project Cost	FY25-26	FY26-27	FY27-28	FY28-29	FY29-30
Solids Handling	Approved/Funded	5	$35,589,387	$12,000,000	$23,589,387			
Upsizing Sewer: Sycamore	Priority	N/A	$5,520,000	$5,520,000				
RHNC (Natue Center)	Priority Grant	N/A	$8,000,000	$4,000,000	$4,000,000			
Upsizing Sewer: Willow Ave (Grove to Foothill)	Priority/MP	N/A	$600,000			$600,000		
Upsizing Sewer (Acacia:Bonnie View to South)	Priority/MP	N/A	$600,000		$600,000			
Upsizing Sewer: Merrill Ave (Acacia to Sycamore)	Priority/MP	N/A	$2,400,000		$2,400,000			
Upsizing Sewer: Sycamore Ave (Huff to Randall)	Priority/MP	N/A	$1,800,000			$1,800,000		
Agua Mansa Sewer Lift Station	Priority	N/A	$3,600,000		$3,000,000	$600,000		
Ayala Lift Station	Priority	4	$3,000,000			$3,000,000		
Secondary EQ Influent Filter Pump	Priority	5	$3,000,000				$3,000,000	
Plant 5 Clarifiers	Priority	4.5	$600,000		$600,000			
Plant 5 Aeration Basins	Priority	4	$1,200,000			$1,200,000		
Overhaul Headworks, Plant 5	Priority	4	$1,200,000				$1,200,000	
Spencer Aeration Blowers	Priority	4.5	$900,000					$900,000
Barscreen #1 Replacement	Priority	3.5	$300,000					$300,000
Future Sewer Main Replacement 2028	Priority	5	$1,200,000				$1,200,000	
Future Sewer Main Replacement 2029	Priority	5	$1,200,000					$1,200,000
4th Disk Filter	Priority	N/A	$900,000				$900,000	
Security System	Priority Grant	N/A	$2,000,000	$2,000,000				
Manhole 2026	Deferred/Caution	5	$240,000					
Demolish Plants 1 and 2	Deferred/Caution	N/A	$2,832,000					
Manhole 2027	Deferred/Caution	5	$240,000					
Manhole 2028	Deferred/Caution	5	$240,000					
Flare and Biogas System Modifications	Deferred/Caution	NA	$3,600,000					
Manhole 2029	Deferred/Caution	5	$240,000					
Electrical Upgrade	Deferred/Caution	N/A	$10,368,000					
Backup Power (CoGen)	Deferred/Caution	N/A	$24,744,000					
SCADA Upgrades to Lift Stations	Deferred/Caution	N/A	$900,000					
	Deferred/Caution		$43,404,000	$0	$0	$0	$0	$0
	Grant		$10,000,000	$2,000,000	$0	$0	$0	$0
	Approved/Funded		$35,589,387	$12,000,000	$23,589,387	$0	$0	$0
	Priority		$28,020,000	$9,520,000	$10,600,000	$7,200,000	$6,300,000	$2,400,000

5-Year Water CIP

Water Projects

This RWS table shows Priority Status CIP, including where Master Plan growth projections are driving CIP, where Criticality is driving CIP, and where Grant funding is driving CIP. Projects in red are shown but suggested for deferral with caution.

Water Projects

Project Short Name	Status	Condition Rank	Project Cost	FY25-26	FY26-27	FY27-28	FY28-29	FY29-30
Water Main: Etiwanda (Riverside to Eucalyptus)	**Priority**	5	**$8,040,000**		$8,040,000			
Pressure Relief Valves (PRVs) Zone 2 to Zone 3	**Priority/MP**	N/A	**$600,000**		$600,000			
Automatic Meter Infrastructure (AMI)	**Priority Grant**	N/A	**$8,000,000**	$4,000,000	$4,000,000			
Service line: South Alice, South Palm, West Vodden, Alru St.	**Deferred/Caution**	5	**$1,440,000**					
Security for Water and Wastewater	**Deferred/Caution**	N/A	**$2,000,000**					
Automatic Meter Infrastructure (AMI)	**Deferred/Caution**	N/A	**$8,000,000**					
Service line: Bonnie View (Acacia and Eucalyptus)	**Deferred/Caution**	5	**$2,880,000**					
4" S. Oakdale & S. Marcella (E Rialto and Allen)	**Deferred/Caution**	5	**$3,600,000**					
Cedar Reservoir 2, Overhaul, and Dome Preservation	**Deferred/Caution**	4.5	**$3,000,000**					
Well "City 3A" Groundwater Treatment System	**Deferred/Caution**	N/A	**$7,200,000**					
Service Line, Hydrant Laterals, Etiwanda	**Deferred/Caution**	4.5	**$4,200,000**					
Serviceline&Hydrant: Woodcrest, Yucca, etc	**Deferred/Caution**	4.5	**$2,400,000**					
Service Line: Cedar & Larch	**Deferred/Caution**	4.5	**$2,640,000**					
Service Line & Hydrant: Palm, Orange, Olive, Date	**Deferred/Caution**	4.5	**$3,960,000**					
	Deferred/Caution		**$41,320,000**	$0	$0	$0	$0	$0
	Grant		**$8,000,000**	$4,000,000	$4,000,000	$0	$0	$0
	Approved/Funded		**$0**	$0	$0	$0	$0	$0
	Priority		**$8,640,000**	$0	$8,640,000	$0	$0	$0

Wastewater Project Profiles

WWTP Biosolids Upgrades Project
Wastewater Priority CIP (Status: APPROVED, Reserve-Funded)

Description
Replace existing Belt Presses #1 and #2 with new Dewatering equipment. AECOM reviewed five technologies and identified Centrifuge technology as having the best lifecycle value. Replace existing Gravity Belt Thickeners #1 and #2 with new sludge thickening equipment. AECOM reviewed five technologies and identified Rotary Drum Thickeners as the best-value technology because of relatively low capital and operational costs, common use in the industry, a record of high performance, and low level of technological complexity. Bring Digester #1 online to allow Digester #2 to be cleaned, inspected and repaired. Digester #1 was last retrofitted in 2003 and has been inoperable for several years. Digester #2 Dystor lid is past its expected service life and is showing major wear. Any disruption in the operation of Digester #2 and its aged lid would burden the project with extensive cost in emergency repairs and rental equipment. Dystor covers will be also be replaced. The holding tank cover was removed in 2021 due to rust damage including multiple holes which greatly compromised the cover's integrity. SCAQMD has required that it be replaced with a fixed lid. Furthermore, additional storage tank mixing is required to keep solids in suspension within the tank and provide a consistent and uniform feed to the new dewatering facility.

Fiscal Year	2025-26
Total Project Cost	$36,972,421 Already Spent: $1,374.034 FCWA Amount: $35,598,387
Condition Score	5
Criticality Score	5
Status	Approved, Reserve-Funded

Notes:
The Centrifuge system was identified as the best-value technology because of relatively low capital cost, common use in the industry, high record of performance, and relatively low technological complexity. Most importantly, centrifuges remove 6% more water than other technologies, producing lighter and drier cake. If installed at the plant, centrifuges would save an estimated $120,000 per year on hauling costs over Belt Filter Presses, noting Jacobs estimated significant additional annual savings.

Upsizing Sewer Mains in Sycamore Ave. and Baseline Rd.
Wastewater Priority CIP – Master Plan Project

Description
Construct a dedicated 8" sewer main downstream of the Sycamore Sewer Lift Station to Baseline Road. These flows will join the flows in the current sewer main in Sycamore Ave. and then be conveyed to Acacia Ave. via a newly constructed 15" sewer main in Baseline Road.

Fiscal Year 2025-26

Estimated Cost $5,520,000

Condition Score 5

Criticality Score 5

Status
Project Initiation Memo complete. Pending final authorization.

Reason for inclusion
Pipeline identified in 2022 Wastewater Master Plan. This choke point in the collection system has been known for many years and requires significant maintenance efforts until a capital project provides a permanent fix. The need for the project has been recently reaffirmed in the Wastewater Master Plan and a conceptual design has been identified.

Agua Mansa Lift Station
Wastewater Priority CIP – Master Plan Project

Description
Upgrade [and increase capacity of] the Agua Mansa Lift station pump, and add emergency diesel generator and security features.

Fiscal Year **[**2025-26]

Estimated Cost $3,600,000

Condition Score 5

Criticality Score 5

Status
Pending for project initiation memo development.

Reason for inclusion
Required to expand the capacity of the lift station for development south of Santa Ana Avenue. Lift station is in need of an upgrade and emergency backup generator.

Notes
Project scope specifically: Removal of existing pumps, installation of new pumps, removal and disposal of existing pump inlet and discharge piping and valving including replacement of existing pipe and pump supports inside the wet well, installation of new pump discharge piping and valving, minor concrete repairs to above grade portions of the wet well, minor demo and repair of existing wet well structure to accommodate new pumps, installation of new wet well lid and access hatches, removal and replacement of existing blower and duct work, install new electrical equipment and generator and demolish old electrical equipment, remove and replace chain link fence and entry gate, install flow meters and flowmeter vault with new access hatch, and other appurtenances.

Ayala Lift Station Upgrades and Repair
Wastewater Priority CIP

Description
Implement safety systems, provide SCADA communication & controls to WWTP, provide adequate standby pumping for pump redundancy, upgrade smaller 14 Hp pump to 28 Hp pump, new pump control panel, improved area lighting, new discharge piping, new discharge valves, fall protection anchor system, dual pump rail system, fall protection hatch.

Fiscal Year [2026-27]

Estimated Cost $3,000,000

Condition Score 4.5

Criticality Score 4

Status
Pending project development and initiation memo to be drafted once 26/27 fiscal year commences.

Reason for inclusion
Station working without SCADA leaves opportunity for alarm failure to allow pump failure to go unnoticed. Benefits include the ability to view flows, levels, and other data from the lift station, provide necessary safety controls at site, and provide reliable pump redundancy.

Upsizing Sewer Mains in N. Willow Ave.
Wastewater Priority CIP – Master Plan Project

Description
Upsize sewer main to a 12" line in N. Willow Ave. from W. Grove St. to Foothill Blvd. to meet current and future flows.

Fiscal Year 2027-28

Estimated Cost $600,000

Condition Score N/A

Criticality Score N/A

Status
Pending project development and initiation memo to be drafted once 27/28 fiscal year commences.

Reason for inclusion
Pipeline identified in 2022 Wastewater Master Plan.

Upsizing Sewer Mains in Acacia Ave.
Wastewater Priority CIP – Master Plan Project

Description
Upsize 12" sewer main to an 18” line in Acacia Ave. from E. Bonnie View Dr. to E. South St. to meet current and future flows.

Fiscal Year 2026-27

Estimated Cost $600,000

Condition Score N/A

Criticality Score N/A

Status
Pending project development and initiation memo to be drafted once 26/27 fiscal year commences.

Reason for inclusion
Pipeline identified in 2022 Wastewater Master Plan.

Upsizing Sewer Mains in Merrill Ave.
Wastewater Priority CIP – Master Plan Project

Description
Upsize sewer main to a 21" line in Merrill Ave. from S. Sycamore Ave. to S. Acacia Ave. to meet current and future flows.

Fiscal Year 2026-27

Estimated Cost $2,400,000

Condition Score N/A

Criticality Score N/A

Status
Pending project development and initiation memo to be drafted once 26/27 fiscal year commences.

Reason for inclusion
Pipeline identified in 2022 Wastewater Master Plan.

Upsizing Sewer Mains in Sycamore Ave.
Wastewater Priority CIP – Master Plan Project

Description
Upsize 15” sewer main to a 18" line in Sycamore Ave. from E. Huff St. to E. Randall Ave. to meet current and future flows.

Fiscal Year 2027-28

Estimated Cost $1,800,000

Condition Score N/A

Criticality Score N/A

Status
Pending project development and initiation memo to be drafted once 26/27 fiscal year commences.

Reason for inclusion
Pipeline identified in 2022 Wastewater Master Plan.

Secondary EQ Influent Filter Pump 1, 2 & 3

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Wastewater Priority CIP

Secondary EQ Influent Filter Pump 1, 2, and 3 Overhaul

Problem or Opportunity:	The pumping system has exceeded its life expectancy by fifteen years, and the mechanical and electrical equipment is aged. Each of the pumps needs to be overhauled to extend asset life. One of the motors has had an issue with vibration, and it has been noticed that the mounting pedestal is showing cracking. This pump will have to have a new pedestal during its overhaul rotation.
Assets Included:	Multiple Assets
Condition Score:	4 Worse Condition of Asset Group
Criticality Score:	5
Recommended Solution:	The recommendation includes the overhaul of all the secondary EQ Influent Filter Pumps in rotation. The project is to include the replacement of the Secondary EQ Basin/Pumping System. The pumping system also requires the replacement of the pedestals and the pump mountings.
Measurable Benefits:	Compliance with state's NPDES requirements and redundancy requirements.
Basis of Recommendation:	The mechanical and electrical equipment is aged, worn out, and not operating efficiently.
Assumptions / Risks:	Inability to utilize all eight filters as required and as designed.
Primary Driver:	Failing condition and increased risks of violations.
Cost Estimate:	$3,000,000

Plant 5 Secondary Clarifiers

–

Wastewater Priority CIP

Plant 5 Secondary Clarifiers A&B Overhaul

Problem or Opportunity:	The asset has been in continuous operation for the past 20+ years, due to lack of backup clarifier. Hence, this clarifier has significant deferred maintenance including peeled/compromised paint which exacerbates corrosion of the equipment and increases risk of breakdown, which in turn results in the increased risk of violation due to excess suspended solids in the effluent.
Assets Included:	OWAM ID 778/779
Condition Score:	4.5
Criticality Score:	4.5
Recommended Solution:	Overhaul of the Secondary Effluent Clarifiers is required to maintain compliance with the NPDES permit.
Basis of Recommendation:	Permit compliance
Assumptions / Risks:	Increased risk of NPDES permits violations.
Primary Driver:	NPDES permit compliance
Cost Estimate:	$600,000 each
Method of Delivery:	Third party installation under Veolia's direction and management.

Plant 5 Aeration Basins
–
Wastewater Priority CIP

Plant 5 Aeration Basins - Diffuser Replacements (three units)

Problem or Opportunity:	Prudent industry standards dictate the necessity of diffuser replacement every 5 to 7 years
Condition Score:	4
Criticality Score:	5
Assets Included	OWAM 763, 764, 50215
Recommended Solution:	Full replacement of diffusers for each basin
Measurable Benefits:	Maintain proper diffused air distribution throughout oxic zones to prevent short circuiting and ammonia pass through
Basis of Recommendation:	Prudent industry standards dictate the necessity of diffuser replacement every 5 to 7 years
Assumptions/Risks:	Inadequate air distribution will need to possible plant upset
Primary Driver:	Maintain compliance of SWRCB permit
Cost Estimate:	$1,200,000
Method of Delivery:	Purchase materials from vendor, contractor and/or Veolia staff to install

Overhaul of Headworks – Wastewater Priority CIP

Overhaul of Headworks Plants 5

Problem or Opportunity:	Bar screen is jamming at the bottom and probing indicates something at the bottom causing jam, possibly deteriorated concrete. Unable to determine until drained. At this point there are no suspected issues with the structure itself, but closer examination is needed. A plan to bypass and drain the tank will be developed to determine if structural repairs are needed. Multiple gates within the headworks structure have failed.
Assets Included:	OWAM ID 744
Condition Score:	4
Criticality Score:	5
Recommended Solution:	Overhaul the bar screen that is jamming at the bottom. Overhaul to fully eliminate structural and mechanical issues.
Measurable Benefits:	Flow control and isolation
Basis of Recommendation:	Preventative Maintenance inspections indicate that the integrity of the Headworks is compromised from a jam occurring at the bottom. Further investigation is needed to determine the impact to the process and operational impact.
Assumptions / Risks:	Inability to isolate for cleaning or repairs
Primary Driver:	Failing condition
Cost Estimate:	$1,200,000

Spencer Blowers R/R
–
Wastewater Priority CIP

Repair/Replacement of Spencer Blowers

Problem or Opportunity:	These blowers have degraded and are in an environment that causes intermittent high temperature load failures. There is substantial uncertainty about the condition of the blower as well as about the availability of spare parts for these Spencer blowers.
Assets Included:	Multiple
Condition Score:	4.5
Criticality Score:	4
Recommended Solution:	Overhaul and rebuild of both blowers along with the replacement of electrical and control components. Current cost analysis is dependent on OEM inspection and repair/replacement recommendations.
Measurable Benefits:	Consistent air supply throughout the plant which is used to supply all essential process operations, especially aeration control and consistency.
Basis of Recommendation:	Due to the leaks within plant piping there has been an excessive load on the blowers due to significant underground plant air piping leaks. These leaks basically require the blowers to be run at full capacity. This is increasing wear and tear, shortening the asset life.
Assumptions / Risks:	Should there be a catastrophic failure with the NexTurbo blowers, the Spencer blowers need to be readily available for redundancy.
Primary Driver:	Asset renewal, prevention of system failures and NPDES permit violations.
Cost Estimate:	$900,000

Barscreen #1 Replacement

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Wastewater Priority CIP

Barscreen #1 Replacement

Problem or Opportunity:	The barscreen has passed its useful life and requires replacement based on manufacturer recommendation.
Assets Included:	Multiple assets
Condition Score:	3.5
Criticality Score:	4
Recommended Solution:	The recommended solution is to replace the barscreen as the age and useful life will be coming to an end.
Measurable Benefits:	Maintain compliance, remove inorganics as intended to minimize downstream assets
Basis of Recommendation:	Replacement necessary based on age, useful remaining, and OEM recommendations
Assumptions / Risks:	Should barscreen fail, the potential for blockage(s) is likely which could result in an SSO. Also, potential to damage assets downstream.
Primary Driver:	Permit compliance and prevention of system failures within the downstream process
Cost Estimate:	$300,000
Method of Delivery:	Third party installation under Veolia's direction and management.

Disk Filter 4 Redundancy

–

Wastewater Priority CIP

Disk Filter Redundancy -- Installation of a Fourth Disc Filter

Problem or Opportunity:	The original scope of S1 included the purchase and installation of four new Disc Filters. In a joint effort to reduce the overall S1 project costs the fourth disc filter was removed. This project is for the installation of a fourth disc filter as it is needed for redundancy.
Assets Included:	New asset to be assigned an OWAM ID at installation
Condition Score:	New asset will have a score of 1 assigned
Criticality Score:	N/A
Recommended Solution:	Installation of a fourth disc filter will provide redundancy.
Measurable Benefits:	Allows for asset life cycle extension of a new asset.
Basis of Recommendation:	NPDES compliance to meet redundancy needs and asset preservation.
Assumptions / Risks:	Minimal risk
Primary Driver:	Asset preservation and process flexibility.
Cost Estimate:	$900,000

Manhole Replacement
Wastewater Priority CIP

Description
Annual budget for manhole replacement is set at $240,000. Manholes are selected for replacement based on condition, which is noted during routine operations such as inspections, Hot List maintenance using frequent cleaning/jetting, and CCTV monitoring.

Fiscal Year All

Estimated Cost $240,000 per year

Condition Score Poorest-condition manholes will be selected for replacement, starting with the 5s

Criticality Score Preference given to manholes with higher criticality, starting with the 5s

Status
Ongoing

Reason for inclusion
Manhole rehabilitations are a necessary part of collection system maintenance and prevent manhole collapse and street damage.

Notes
Replacement cost could be reduced by coordination with Public Works prior to their planned street repairs and improvements for greater economies of scale.

This is routine work and should be funded through ORR. Individual manhole replacement projects generally have costs in the range of ORR projects.

Aged Sewer Main Replacement
Wastewater Priority CIP

Description
Replace aged sewer mains as identified by master plan, timing of paving projects, assessments or observations by collections crews, and CCTV footage and analysis.

Fiscal Year 2028-29, 2029-30

Estimated Cost $1,200,000 per year

Condition Score Those scoring in the poorest condition based on CCTV will be selected.

Criticality Score Higher criticality mains will be given preference.

Status
Ongoing.

Reason for inclusion
Some sanitary sewer lines are undersized and/or deteriorated and must be replaced to prevent impacts such as further degradation, infiltration, exfiltration, SSOs, and potentially private and public property damage. The Baseline Facility Record identifies the main lines that are in critical need of total replacement. This Record is updated each year and as field inspections are conducted and CCTV data is collected and analyzed, annual updates are made accordingly.

Notes
Costs can possibly be reduced by coordinating with Public Works prior to street repairs or improvements.

Water Project Profiles

Main Line Replacement on Etiwanda Ave.
Water Priority CIP

Description
Replace aged water main line between Riverside Ave. and Sycamore Ave. along Etiwanda Ave. This is stemming from a prospective pavement project.

Fiscal Year 2025-26

Estimated Cost $8,040,000

Condition Score 5

Criticality Score 5

Status
Planning complete. Pending for City direction.

Reason for inclusion
The water main and service lines have exceeded their lifespan and have a long history of repeated leaks, including several recent leaks which have been repaired. This project will replace 4,000 linear feet of 6” main line, 550 linear feet of service lines and associated service connections.

Notes

Pressure Relief Valves Zone 2 to Zone 3
Water Priority CIP – Master Plan

Description
Pressure Zone 3A has been experiencing lower pressures during peak water demands. Install new stations to meet and improve water supply.

Fiscal Year 2025-26

Estimated Cost $600,000

Condition Score N/A

Criticality Score N/A

Status
Project is currently under design.

Reason for inclusion
With the increase in development in the City, the greater demand for water supply has arisen. This project would assist manage the demand. Further, Zone 2 to Zone 3 PRV station is aged, the vault is shallow and located in the main traffic lane of Riverside Ave.

AMI
Water Priority CIP – Grant Funded

Description
An Advanced Metering Infrastructure (AMI) solution will automate the data collection of water meter information and to have more in-depth information on its customers' usage and system operation.

Fiscal Year 2025-26

Estimated Cost $8,000,000

Condition Score N/A

Criticality Score N/A

Status
Project is currently under RFP review.

Reason for inclusion
Rationale for project includes to: reduce costs through efficiencies and improve quality of service, empower customers to help manage their water consumption, provide a technology platform to meet the increased information needs of its customers.

Service Line Replacement – S. Alice Ave., S. Palm Ave., W. Vodden and Alru St. Water CIP

Description
Replace aged service lines on South Alice, South Palm, West Vodden, and Alru St.

Fiscal Year 2025-26

Estimated Cost $1,440,000

Condition Score 5

Criticality Score 5

Status
Defer/Caution

Reason for inclusion
The water service lines have exceeded their lifespan and have a long history of repeated leaks, including several recent leaks which have been repaired. This project will replace 2,000 linear feet of 6” galvanized service lines and associated service connections.

Main and Service Line Replacement on Bonnie View Dr.
Water CIP

Description
Replace aged galvanized service lines on Bonnie View Dr. between Acacia Ave. and Eucalyptus Ave.

Fiscal Year 2026-27

Estimated Cost $2,880,000

Condition Score 5

Criticality Score 5

Status
Defer/Caution

Reason for inclusion
These water service and main lines have exceeded their lifespan and have a long history of repeated leaks, including several recent leaks which have been repaired. This project will replace 400 linear feet of service lines and associated service connections.

Cedar Reservoir 2 Overhaul and Dome Preservation
Water CIP

Description
The Cedar Reservoir overhaul will include metal works, dome and structural repairs, and improvements as to be determined by the upcoming cleaning and inspection under OR&R 1819-02.

Fiscal Year 2027-28

Estimated Cost $3,000,000

Condition Score 4.5

Criticality Score 5

Status
Defer/Caution

Reason for inclusion
The reservoir has exceeded its life span by 50 years and was revealed during an inspection to have significant deterioration and corrosion of interior and exterior surfaces. The overhaul will address any aged or defective components in order to extend the life of the asset and prevent catastrophic near-term failure resulting in a loss of storage capacity.

Main and Service Line Replacement on S. Oakdale Ave. and S. Marcella Ave. Water CIP

Description
Replace aged main and service lines on S. Oakdale and S. Marcella between E. Rialto Ave. and Allen St.

Fiscal Year 2026-27

Estimated Cost $3,600,000

Condition Score 5

Criticality Score 5

Status
Defer/Caution

Reason for inclusion
The water main and service lines have exceeded their lifespan and have a long history of repeated leaks, including several recent leaks which have been repaired. This project will replace 2,300 linear feet of 4” steel main line, 2,000 linear feet of service lines, and associated service connections.

Service Line and Hydrant Lateral Replacement on Woodcrest, Yucca, Miramonte, Althea, Manzanita, and Arrowhead Streets
Water CIP

Description
Replace aged mainline, service line, hydrant laterals, and hydrants on Woodcrest, Yucca, Miramonte, Althea, Manzanita, and Arrowhead Streets, in triangle created by Bloomington Ave., S. Lilac Ave., and W. San Bernardino Ave.

Fiscal Year 2028-29

Estimated Cost $2,400,000

Condition Score 4.5

Criticality Score 4.5

Status
Defer/Caution

Reason for inclusion
Service line laterals installed in the late 1980 to late 1990's had a high rate of failure less than a decade after their installation due to failures in the plastic laterals. This project will allow control of replacement rather than expensive mitigation of failures. Over the years, 17% of the service lines have been replaced with copper. This project would focus on the remaining 115 service lines, 10 hydrant laterals and hydrants, and 24 service valves that require replacement.

Service Line and Hydrant Lateral Replacement on Palm, Orange, Olive and Date Streets Water CIP

Description
Replace aged service line, hydrant laterals, and hydrants on Palm, Orange, Olive and Date Streets between Foothill Blvd. and the train tracks.

Fiscal Year 2029-20

Estimated Cost $3,960,000

Condition Score 4.5

Criticality Score 4.5

Status
Defer/Caution

Reason for inclusion
World War II era lateral piping is still in service and must be replaced as a large project before failure. This pipe has exceeded its expected service life and some failures have already occurred. Historically, there have been over 40 laterals that have been replaced due to leaks, but the remainder of the lines should be scheduled for replacement as one project. This is approximately 7,000 linear feet of piping, 340 service lines and meters, 40 hydrant laterals and hydrants, and 107 valves.

APPENDIX Additional Projects Profiles

Rialto Habitat & Nature Center
Wastewater Additional Projects

Description
The RHNC is expected to be located at or near the city's old retention basin east of Riverside Avenue, between Santa Ana Avenue and Agua Mansa Road. The RHNC will utilize recycled water from the wastewater treatment plant, and is designed to create benefits of habitat management and open space/educational facilities.

Fiscal Year **[**2025-26]

Grant Funding $8,000,000

Condition Score N/A

Criticality Score N/A

Status
Additional Projects, Grant Funded

Demolition of Plants 1 & 2
Wastewater – Additional Projects

Description
Demolish obsolete Plants 1 and 2 at WWTP.

Fiscal Year NA

GMP Cost $2,832,000

Condition Score N/A

Criticality Score N/A

Status
Additional Projects

Reason for inclusion
Plants 1 & 2 were abandoned in early 2000 and 2020 respectively. Plants 1 and 2 collect water and pose odor and vector issues.

WWTP Electrical System Upgrades and Backup Power (CoGen)
Wastewater Additional Projects

Description
Rework and consolidate the electrical system at the WWTP to tie diesel generators to plant and support a power backup solution.

Fiscal Year NA

GMP Cost $10,368,000 (electrical upgrades) + $24,744,000 (CoGen)

Condition Score N/A

Criticality Score N/A

Status
Additional Projects

Reason for inclusion
The Regional Water Quality Control Board (RWQCB) has raised concerns that a reliable backup power system is not available at the WWTP. Plants 1-4 and 5 are not in a common electrical loop, and it is currently impossible to support the whole plant with emergency backup generators. Plant 5 electrical connection powers all the processes except the Disk Filter and tertiary treatment, which is still fed from the Plant 1-4 circuit. A single electrical loop is required to connect to all critical equipment and processes in the Rialto WWTP. This project will also provide the electrical infrastructure needed to support any new asset e.g. CoGen use of methane to produce power.