

WASTEWATER FACILITIES							
Year	Asset Description	Reason for Inclusion	Condition Rank	Estimated Cost	Total Year Cost	5 Year Cost Summary	Comments
Underway	Sycamore Sewer Lift Station	Required to expand the capacity of the lift station for the Lytle Creek development. Lift station is in need of an upgrade and generator.	N/A	\$1,650,000	N/A	N/A	Estimated cost not included in total year cost as project is underway.
2022	North Holding Tank Repair & Lid Replacement	Tank requires repairs and lid needs to be replaced due its critical condition.	4.5	\$1,200,000 - \$3,000,000		\$37,150,000 - \$38,950,000	The range is dependent on repairing vs replacing the tank. In addition, it is possible the lid may not be required to be replaced (pending AQMD's approval). In addition, the range is dependent on a structural engineer's assessment.
2022	Digester 1 and 2 Transition, Cleaning, and Rehabilitation	Activation of Digester #1, transition from Digester #2 to #1, cleaning and rehabilitation of Digester #2, and Digester #2 Dystor lid replacement	4	\$2,000,000			Cleaning of Digester #2 and replacement of the Dystor lid are beyond the OEM timelines for said actions.
2022	Belt Press 1 Replacement	Equipment has been non-functional for years and is obsolete	5	\$1,000,000			In addition to being obsolete, this equipment is not adequately sized to handle current levels of sludge.
2022	Belt Press 2 Replacement	Equipment has exceeded its design life and is obsolete	5	\$1,500,000			With BP #1 being non-functional, BP #2 must run continously as there is no redundancy.
2022	Gravity Belt Thickener 1	Equipment has exceeded its design life	4	\$500,000			
2022	Gravity Belt Thickener 2	Equipment has exceeded its design life	4	\$500,000			
2022	Upsizing Sewer Mains	Upsizing sewer mains downstream of the Sycamore Sewer Lift Station due to increases in flow due to the Lytle Creek development.	N/A	\$3,000,000			
2022	Aged Wastewater Main Replacement Need more detail.	History of HOT LIST and past pipe segment replacements	5	\$1,200,000			This will be updated once we have reviewed all of the condition scores along with the CCTV videos for the identified segments.
2022	Manhole Replacement and Rehabilitation Include locations	PM Inspection	5	\$200,000			Locations will be included when this list is being finalized.
2022	Microgrid / Cogen	Net cost = capital coss less incentives	N/A	\$5,600,000			
2022?	Electrial Upgrade	While this has low priority, the Microgrid project would impact completing this upgrade sooner rather than later.	N/A	\$3,000,000	\$19,700,000 - 21,500,000		
2023	Lake Rialto	In preliminary design	N/A	\$6,000,000			
2023	Repair/Replacement of Aging Spencer Aeration Blowers	Aging blowers have been in service for many years and require major overhaul or replacement	4.5	\$750,000			
2023	Agua Mansa Sewer Lift Station	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 generator.	N/A	\$1,650,000			
2023	Manhole Replacement and Rehabilitation Include locations	Based on PM inspections	5	\$200,000			
2023	Aged Wastewater Main Replacement Need more detail.	History of HOT LIST and past pipe segment replacements	5	\$1,200,000	\$9,800,000		
2024	Plant 5 Aeration Basins 1 & 2 Overhaul	Overhaul need to maintain NPDES Permit Compliance	4	\$600,000			Air supply system to the basins (similar to Basin 3). This assists with NPDES compliance, provide better process control management, and potential electrical efficiency
2024	Plant 5 Secondary Effluent Clarifiers A&B Overhaul	Overhaul required to maintain NPDES permit regulatory compliance	3	\$500,000			Each clarifier will costs approximately \$250k
2024	Septic to Sewer	Connecting all septic customers to sewer connections	N/A	???			
2024	Manhole Replacement and Rehabilitation Include locations	PM Inspection	5	\$200,000			

2024	Aged Wastewater Main Replacement Need more detail.	History of HOT LIST and past pipe segment replacements	5	\$1,200,000	\$2,500,000		
2025	SCADA Upgrades to Lift Stations	Provide lift station monitoring and control to better manage lift station operation, more easily identify and address maintenance issues	N/A	\$750,000			
2025	Installation of fourth Disk Filter	Filtration system lacks internal redundancy necessary to maintain capacity	N/A	\$350,000			By installing a fourth disk filter, this would provide redundancy to ensure preventative maintenance on the other disk filters to prolong life span
2025	Manhole Replacement and Rehabilitation Include locations	PM Inspection	5	\$200,000			
2025	Aged Wastewater Main Replacement Need more detail.	History of HOT LIST and past pipe segment replacements	5	\$1,200,000	\$2,500,000		
2026	Equalization Basin Rehabilitation	Rehabilitation of basin, control gates, and pumping equipment	5	\$500,000			
2026	Backup generators for Cactus, Lilac, and Ayala Lift Stations	Backup generators provide an assurance that collection system wastewater pumping will be provided during power outages	N/A	\$750,000			
2026	Manhole Replacement and Rehabilitation Include locations	PM Inspection	5	\$200,000			
2026	Aged Wastewater Main Replacement Need more detail.	History of HOT LIST and past pipe segment replacements	5	\$1,200,000	\$2,650,000		

WATER FACILITIES							
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Underway	Riverside (North) Water Main Replacement Project - Phase I	Riverside paving project and 5 year moratorium	N/A	\$1,500,000	N/A	N/A	Estimated cost not included in total year cost as project is underway.
2022	Aged Water Main Replacement Merrill from Sycamore to Eucalyptus	History of frequent leaks and adjacent to replaced segment	5	\$4,400,000		\$35,350,000	
2022	Mainline Valves Replacements	PM Inspection and Valve Turning	5	\$250,000			This is included every year because mainline valve replacements utilize the OR&R budget, which impacts the planned and budgeted projects annually.
2022	Aged Water Main Replacement Etiwanda from Riverside to Eucalyptus	History of frequent leaks and adjacent to replaced segment. Several ongoing leaks in the extremely aged service lines and main line.	5	\$6,700,000			This covers Sycamore to Acacia and Acacia to Eucalyptus,
2022	Mainline replacement/tie in on Sycamore from Etiwanda to Foothill	Deteriorated line and history of frequent leaks	5	\$2,400,000	\$13,750,000		3 aged mains that need to be replaced (1930s - 1950s). This area covers Rosewood to Foothill and from Etiwanda to Rosewood.already accounted for on line #40
2023	Riverside (Central) Water Main Replacement Project - Phase *includes relocation of a PRV station	Riverside paving project and 5 year moratorium	N/A	\$5,500,000			New project do to City's restoration of Riverside Ave Paving (Central phase). Due to the tentative schedule for this project, we have placed it in 2023. This project includes the relocation of a PRV station (corner of Randall & Riverside).
2023	Cedar Reservoir 2, Overhaul, and Dome Preservation	PM Inspection, Asset Renewal, and Life Cycle Extension	4.5	\$1,000,000			
2023	Service line replacements on South Alice, South Palm, West Vodden and Alru St.	Several ongoing leaks in the extremely aged service lines and main line.	4	\$1,200,000			
2023	Main and service line replace; Bonnie View between Acacia and Eucalyptus*	Several ongoing leaks in the extremely aged service lines and main line.	5	\$2,400,000			
2023	Mainline Valves Replacements	PM Inspection and Valve Turning	5	\$250,000	\$10,350,000		These replacements are identified when the valve is being exercised and because OR&R is a list of planned and budgeted projects, setting aside CIP funds to replace valves is the most appropriate.
2024	4" South Oakdale and South Marcella between East Rialto Ave and Allen St	Several ongoing leaks in the extremely aged service lines and main line.	5	\$3,000,000			

2024	Mainline Valves Replacements	PM Inspection and Valve Turning	5	\$250,000	\$3,250,000	These replacements are identified when the valve is being exercised and because OR&R is a list of planned and budgeted projects, setting aside CIP funds to replace valves is the most appropriate.
2025	Mainline and Service Line, Hydrant Laterals, and Mainline Replacement Below Etiwanda between Lilac and Sycamore Streets: Cornell and Victoria	History of frequent leaks and adjacent to replaced segment	4.5	\$2,500,000		
2025	Service Line Replacement, Hydrant Lateral for Woodcrest, Yucca, Miramonte, Arrowhead, and Althea	History of frequent leaks and adjacent to replaced segment	4.5	\$1,300,000		
2025	Mainline Valves Replacements	PM Inspection and Valve Turning	5	\$250,000	\$4,050,000	
2026	Service Line Replacement between Cedar and Larch below Etiwanda on Streets Victoria, Cornell, Rosewood, Church, and Folke	History of frequent leaks and adjacent to replaced segment	4.5	\$1,200,000		
2026	Service Line Replacement, Hydrant Laterals for Palm, Orange, Olive, Date Between Foothill to Train Tracks (Part 1)	History of frequent leaks and adjacent to replaced segment	4.5	\$2,500,000		
2026	Mainline Valves Replacements	PM Inspection and Valve Turning	5	\$250,000	\$3,950,000	