

CAPITAL IMPROVEMENT PROGRAM - Project Cost Listing

WATER RECLAMATION

Project Name and Description	Fund Source	Fund	Project No.	Estimated Completion Date	Prior Expenses Up to 10 Yrs.	Encumbrances	Estimated Continuing Appropriations	Prior Funding Subtotal	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Future Years	Total Project Cost	
<u>WATER RECLAMATION CAPACITY FUND</u>																
<u>Water Reclamation Facility #1 Chlorine Contact Tank</u> Add capacity to Chlorine tank to exceed 15.76 million gallons per day (mgd).	WR CAP	440		Ongoing										\$ 816,750	\$ 816,750	
<u>Water Reclamation Facility #1 Gravity Belt Thickener, Belt Press and Digesters</u> Install one gravity belt thickener, one belt press and four additional digesters to maximize capacity.	WR CAP	440		Ongoing										7,317,000	7,317,000	
<u>Water Reclamation Facility #1 New Grit Chamber</u> New grit chamber to handle 43.5 mgd.	WR CAP	440		Ongoing										1,012,500	1,012,500	
<u>Water Reclamation Facility #1 Secondary Clarifier</u> Expand clarifier capacity to greater than 15.16 mgd.	WR CAP	440		Ongoing										5,471,064	5,471,064	
<u>Water Reclamation Facility #1 Tertiary Filters</u> Additional filters required to handle maximum capacity.	WR CAP	440		Ongoing										10,287,000	10,287,000	
<u>Water Reclamation Facility #3 Decommissioning Phase 2 Force Main</u> Install 23,300 feet of 18" force main.	WR CAP	440		Ongoing										8,492,850	8,492,850	
<u>Water Reclamation Facility #3 Decommissioning Phase 2 Gravity Sewer</u> Install 5,170 feet of 24" gravity sewer from Ontario and Main to Olive Street.	WR CAP	440		Ongoing										1,861,200	1,861,200	
<u>Water Reclamation Facility #3 Decommissioning Phase 2 Pumping Improvements</u> Phase 2 pumping improvements to decommission Water Reclamation Facility #3.	WR CAP	440		Ongoing										1,228,500	1,228,500	
Water Reclamation Capacity Fund Subtotal					\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	\$ 36,486,864	\$ 36,486,864
<u>WATER RECLAMATION UTILITY FUND</u>																
<u>Water Reclamation Lift Station - Griffin</u> Replace existing lift station with a 120 gpm duplex wet well/ dry well lift station. Master Plan Project LS-10.	WR UTIL	572	6217	Ongoing										\$ 750,000	\$ 750,000	
<u>Sewer Main Replacement - Rincon</u> Replace and upsize existing sewer main. Capacity issues per Master Plan - upgrade 12" pipe to 15" pipe. Sewer Master Plan Project P-11.	WR UTIL	572	6280	June 2016						390,000					390,000	

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<u>Ahmanson Lift Station Upgrade</u> Improve system reliability while providing a number of site improvements including the replacement of existing pipes, pumps and motors, electrical controls, wet well liner, and an emergency generator including an automatic transfer switch. Additional site improvements include a block wall extension and enhanced fence for improved security.	WR UTIL	572	6562	June 2015	230,453	39,477	230,070	500,000							500,000
<u>Water Reclamation Facility 1 Site Grading and Drainage Plan</u> Analyze the existing site drainage. Prepare comprehensive grading and site improvement plans to bid and award for construction.	WR UTIL	572	6586	June 2015	35,835		464,165	500,000							500,000
<u>Water Reclamation Facility #1 Natural Gas Line</u> Installation of natural gas line from Prado Dam Well to Water Reclamation Facility #1.	WR UTIL	572	6703	Ongoing	1,400		198,600	200,000							200,000
<u>Cota Sewer Improvement</u> Cota Street Syphon valve removal/ improvement.	WR UTIL	572	6705	Ongoing	32,642		317,358	350,000							350,000
<u>Sierra Del Oro Lift Station Pump Improvement</u> Acquisition and installation of a Dri-Prime NC150 pump and concrete pad.	WR UTIL	572	6732	Ongoing	75,382		24,618	100,000							100,000
<u>Small Sewer Line Replacement</u> Small sewer line replacement and repairs throughout system as pipes reach service life or in conjunction with street repair and maintenance.	WR UTIL	572	6830	Ongoing			1,498,713	1,498,713	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	30,000,000	38,998,713
<u>Research/ Railroad Sewer Line Replacement</u> Replace 2100 linear feet of deficient sewer lines.	WR UTIL	572	6840	Ongoing	11,543		488,457	500,000							500,000
<u>Water Reclamation Facility #1 Chlorine Contact Tank (CCT) Influent Vault Project</u> Installation of a static mixer and chemical injection system.	WR UTIL	572	6855	Ongoing	56,463		143,537	200,000							200,000
<u>The Ponds - Influent Piping Project</u> Modify the influent piping access at the Lincoln and Cota ponds.	WR UTIL	572	6856	Ongoing	29,717		170,283	200,000							200,000
<u>Water Reclamation Facility #2 Piping and Paving</u> Install 400 linear feet of 16" ductile iron effluent pipeline.	WR UTIL	572	6858	Ongoing	9,285		115,715	125,000							125,000

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<u>Sierra Del Oro Lift Station Replacement</u> Replace with new wet well/ dry well station similar in design to the recently constructed Joy/ Partridge facility. Pump capacity should be 1950 gpm for ultimate service flow. Master Plan Project LS-3.	WR UTIL	572	6871	Ongoing							2,500,000				2,500,000
<u>Water Reclamation Facility #1 - Dryer System Improvements</u> Replace the dust collection system for Air Quality Management District (AQMD) air compliance and the Regenerative Thermal Oxidizer (RTO).	WR UTIL	572	6872	June 2015	1,015		298,985	300,000							300,000
<u>Water Reclamation Facility #1 - Improvements Canopies, Digester Gas Piping, Analyzer Control</u> Improvements to include canopies, Digester Gas Piping and Analyzer Control Building.	WR UTIL	572	6873	June 2015	223,013	42,000	34,987	300,000	400,000						700,000
<u>Water Reclamation Facility Lighting Upgrades</u> Upgrade exterior lighting at Water Reclamation Facilities #1 and #2 with energy efficient and cost saving lighting.	WR UTIL	572	6983	Ongoing					100,000						100,000
<u>Water Reclamation Facility #1A Clarifiers</u> Install eight clarifiers.	WR UTIL	572	6984	Ongoing					500,000						500,000
<u>Water Reclamation Facility #2 Enhanced Primary Treatment</u> Enhance Primary Treatment at Water Reclamation Facility #2.	WR UTIL	572	6985	Ongoing					300,000						300,000
<u>Water Reclamation Facility #3 Decommissioning Phase 1 Bedford Canyon Lift Station Replacement</u> Increase capacity at Bedford Canyon Lift Station to 1,150.gpm.	WR UTIL	572	6986	Ongoing					200,000	1,587,500					1,787,500
<u>Water Reclamation Facility #3 Decommissioning Phase 1 Force Main and Gravity Sewer</u> 12" force main from Bedford Canyon Lift Station to Chase Drive and California Avenue.	WR UTIL	572	6987	Ongoing					200,000	1,950,191					2,150,191
<u>Water Reclamation Facility #3 Decommissioning Phase 1 Pumping Improvements</u> Phase 1 pumping improvements to decommission Water Reclamation Facility #3.	WR UTIL	572	6988	Ongoing					200,000	332,000					532,000
<u>Water Reclamation Facility # 2 Headworks Screening Replacement</u> Installation of an additional auger/ grinder system. Sewer Master Plan Project T-15/ T-22.	WR UTIL	572	7124	June 2015	172,298	532,691	1,595,011	2,300,000	825,000						3,125,000

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<u>Airport Lift Station Replacement</u> Replacement facility will be a 120 gpm duplex wet well/ dry well facility. Master Plan Project LS-11.	WR UTIL	572		Ongoing										2,000,000	2,000,000
<u>Sewer Main Replacement - Crawford/ Merrill</u> Replace 4,500 feet of 6" VCP with 8" SDR 35. Construct 20 manholes, connect 125 laterals, from manhole 4081 to 3931. Sewer Master Plan Project P-29B.	WR UTIL	572		Ongoing										820,000	820,000
<u>Sewer Main Replacement - Garretson</u> Replace 3,294 feet of 8" pipe with 12" pipe and 208 feet of 10" pipe with 15" pipe. These pipes have been identified to exceed the capacity criterion per the hydraulic analysis. Sewer Mater Plan Project P-18.	WR UTIL	572		June 2016						1,160,000					1,160,000
<u>Sewer Main Replacement - Mangular</u> The depth to diameter ratio of two reaches of 8" pipe in Mangular Avenue between Madagascar Drive and Stein Way is expected to be about 0.67 and 0.70 under ultimate peak weather conditions. The as-built construction plans should be studied further to determine if the slopes can be increased. If so, the sewers should be replaced with 289 feet of 10" pipe. Master Plan Project P-17.	WR UTIL	572		June 2016						1,150,000					1,150,000
<u>Sewer Main Replacement - Smith</u> Replace approximately 5,795 feet of 8" and 10" pipe with 15" pipe on Smith Avenue. Sewer Master Plan Project P-10.	WR UTIL	572		Ongoing										2,000,000	2,000,000
<u>Stagecoach Lift Station & Force Main Replacement</u> Replacement facility will be a 120 gpm duplex wet well/ dry well facility. Master Plan Project LS-9.	WR UTIL	572		Ongoing										2,200,000	2,200,000
Water Reclamation Utility Fund Subtotal					\$ 879,046	\$ 614,168	\$ 5,580,499	\$ 7,073,713	\$ 4,225,000	\$ 8,069,691	\$ 4,000,000	\$ 1,500,000	\$ 1,500,000	\$ 37,770,000	\$ 64,138,404

MULTI-FUND PROJECTS

<u>Water Reclamation Facility #1 - Headworks</u>	WR REV	454	6012	June 2015	\$ 440,272			\$ 440,272							\$ 440,272
<u>Screening Replacement</u> Project will replace existing influent screening units with new and more effective units and add a third unit for redundancy.	WR UTIL	572	6012		210,920		38,808	249,728							249,728

