

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 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	Future Years	Total Project Cost	
<u>WATER RECLAMATION CAPACITY FUND</u>																
<u>Water Reclamation Facility #1 Additional Tertiary Filters</u> Additional filters required to handle maximum capacity.	WR CAP	440		Ongoing										\$ 11,653,500	\$ 11,653,500	
<u>Water Reclamation Facility #1 Chlorine Tank Expansion</u> Add capacity to Chlorine tank to exceed 15.76 million gallons per day (mgd).	WR CAP	440		Ongoing										963,000	963,000	
<u>Water Reclamation Facility #1 Gravity Belt Thickener, Belt Press and Four Digesters (#4,5,6,7)</u> Install one gravity belt thickener, one belt press and four additional digesters to maximize capacity.	WR CAP	440		Ongoing										8,289,000	8,289,000	
<u>Water Reclamation Facility #1 Secondary Clarifier</u> Expand clarifier capacity to greater than 15.16 mgd.	WR CAP	440		Ongoing										6,230,500	6,230,500	
Water Reclamation Capacity Fund Subtotal					\$	-	\$	-	\$	-	\$	-	\$	-	\$ 27,136,000	\$ 27,136,000

WATER RECLAMATION UTILITY FUND

<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-4.	WR UTIL	572	6217	Ongoing										\$ 850,000	\$ 850,000
<u>Rincon Sewer Main Replacement</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
<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	Ongoing	618,238	751,973	29,789	1,400,000							1,400,000
<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>Rincon/ Malloy Sewer Rehabilitation</u> Replace failing 8" sewer line at Rincon and Malloy Court while removing the Cota Street Syphon valve.	WR UTIL	572	6705	Ongoing	50,402		299,598	350,000	500,000						850,000

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<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	198,873		769,840	968,713							968,713
<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 Return Activated Sludge (RAS) Piping</u> Merge and realign the three Return Activated Sludge (RAS) piping into one main RAS pipeline, while removing the two abandoned pipelines.	WR UTIL	572	6858	Ongoing	14,013		110,987	125,000							125,000
<u>Water Reclamation Facility #1 - Improvements Canopies/ Analyzer Control Building</u> Improvements to include canopies, Digester Gas Piping and Analyzer Control Building.	WR UTIL	572	6873	Ongoing	320,731		379,269	700,000							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							100,000
<u>Water Reclamation Facility #1A Clarifier Flight/ Chain Replacements</u> Standardize equipment to Kaman flights and chains. Eight total primary and secondary clarifiers to replace in house installation.	WR UTIL	572	6984	Ongoing	130,185	280,781	39,034	450,000	250,000						700,000
<u>Water Reclamation Facility #2 Enhanced Primary Treatment</u> Enhance Primary Treatment at Water Reclamation Facility #2.	WR UTIL	572	6985	Ongoing							319,500				319,500
<u>Water Reclamation Facility #3 Decommissioning Gravity Sewer Lines</u> Design and construct gravity sewer line to provide capacity to convey sewer flow to various facilities.	WR UTIL	572	6986	Ongoing	6,621	160,625	32,754	200,000	2,500,000						2,700,000

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<u>Water Reclamation Facility #3 Decommissioning Force Mains</u> Design and construct dual 12" force mains from WRF3 to Arantine Hills lift station and then to California Avenue and Chase Drive.	WR UTIL	572	6987	Ongoing	27,899	172,101		200,000	3,000,000						3,200,000
<u>Water Reclamation Facility #3 Decommissioning Pumping Improvements</u> Phase 1 pumping improvements to decommission Water Reclamation Facility #3.	WR UTIL	572	6988	Ongoing	32,850		167,150	200,000	3,000,000						3,200,000
<u>Water Reclamation Facility #1 Digester Gas Flare</u> Phase 1 pumping improvements to decommission Water Reclamation Facility #3.	WR UTIL	572	6995	Ongoing			325,000	325,000							325,000
<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	Ongoing	778,346		2,346,654	3,125,000							3,125,000
<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										2,266,000	2,266,000
<u>Crawford/ Merrill Sewer Main Replacement</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										929,000	929,000
<u>Smith Sewer Main Replacement</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										2,266,000	2,266,000
<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										2,492,500	2,492,500
Water Reclamation Utility Fund Subtotal					\$ 2,277,281	\$ 1,365,480	\$ 5,600,952	\$ 9,243,713	\$ 9,640,000	\$ -	\$ 319,500	\$ -	\$ -	\$ 8,803,500	\$ 28,006,713

MULTI-FUND PROJECTS

<u>Water Reclamation Facility #2 Tertiary Treatment</u> Upgrade facility to full tertiary treatment.	WR CAP WR UTIL	440 572	6013 6013	Ongoing	\$ 2,598,990 1,320,052	\$ 5,695,719 590,462	\$ 381,167 1,900,627	\$ 8,675,876 3,811,141							\$ 8,675,876 3,811,141
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<u>MULTI-FUND PROJECTS, Continued</u>															
<u>Water Reclamation Facility #1B Expansion</u>	WR CAP	440	6014	Ongoing	16,552		222,698	239,250							239,250
Install Primary clarifiers, aeration optimization, and digesters.	WR REV	454	6014		293,048		698,947	991,995							991,995
	WR UTIL	572	6014		29,275		474,728	504,003							504,003
<u>Water Reclamation Facility #1 Centrifuge</u>	WR REV	454	6261	Ongoing	64		666,636	666,700							666,700
Centrifuge facility to replace the current belt press.	WR UTIL	572	6261		33,300			33,300							33,300
<u>Water Reclamation Facility # 1 Digester #2 Dome Replacement</u>	WR REV	454	6585	Ongoing	64		495,990	496,054							496,054
Remove and replace the aged floating roof for Digester #2 at WRF 1.	WR UTIL	572	6585		3,946		300,000	303,946							303,946
<u>Water Reclamation Facility #1 Biosolids Processing Upgrade</u>	WR REV	454	6831	Ongoing	156,102	246,680	760,375	1,163,157							1,163,157
Sludge tank and sludge screening project to demolish and remove existing sludge blender tank and modify chlorine contact tank.	WR UTIL	572	6831		2,418	66,496	517,930	586,844							586,844
<u>Sierra Del Oro (SDO) Lift Station Replacement</u>	WR CAP	440	6871	Ongoing						2,345,500					2,345,500
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		19,036		10,964	30,000	250,000						280,000
<u>Tier IV Portable Equipment Replacement Rule</u>	WTR UTIL	570	7042	Ongoing					112,500	150,000	208,000	186,000			656,500
Replace portable engines which do not currently meet the emissions limits per the Air Resources Board by 2017.	WR UTIL	572	7042						112,500	106,500	164,000	253,500			636,500
Multi-Fund Projects Subtotal					\$ 4,472,847	\$ 6,599,357	\$ 6,430,062	\$ 17,502,266	\$ 475,000	\$ 2,602,000	\$ 372,000	\$ 439,500	\$ -	\$ -	\$ 21,390,766
TOTAL WATER RECLAMATION FACILITIES					\$ 6,750,128	\$ 7,964,837	\$ 12,031,014	\$ 26,745,979	\$ 10,115,000	\$ 2,602,000	\$ 691,500	\$ 439,500	\$ -	\$ 35,939,500	\$ 76,533,479