

**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	Continuing Appropriations	Prior Funding Subtotal	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	Future Years	Total Project Cost
<b><u>2013 WASTEWATER REVENUE BOND PROJECT</u></b>															
<b>2013 WasteWater Revenue Refunding Bonds</b>	WR REV	454	7376	Ongoing	\$ 108,000		\$ 82,000	\$ 190,000							\$ 190,000
Cost of Issuance															
2012 Water Revenue Bond Project					\$ 108,000	\$ -	\$ 82,000	\$ 190,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190,000

**WATER RECLAMATION CAPACITY FUND**

<b>Western Riverside County Regional Wastewater Authority (WRCRWA) Agreement</b>	WR CAP	440	6837	Ongoing	\$ 2,266,047		\$ 91	\$ 2,266,138	\$ 2,000,000	\$20,000,000					\$ 24,266,138
Agreement with the Western Riverside County Regional Wastewater Authority (WRCRWA) to give Corona voting rights and permission to increase capacity.															
<b>Water Reclamation Facility #1 Chlorine Contact Tank</b>	WR CAP	440		Ongoing										816,750	816,750
Add capacity to Chlorine tank to exceed 15.76 million gallons per day (mgd).															
<b>Water Reclamation Facility #1 Gravity Belt Thickener, Belt Press and Digesters</b>	WR CAP	440		Ongoing										7,317,000	7,317,000
Install one gravity belt thickener, one belt press and four additional digesters to maximize capacity.															
<b>Water Reclamation Facility #1 New Grit Chamber</b>	WR CAP	440		Ongoing										1,012,500	1,012,500
New grit chamber to handle 43.5 mgd.															
<b>Water Reclamation Facility #1 Secondary Clarifier</b>	WR CAP	440		Ongoing										5,471,064	5,471,064
Expand clarifier capacity to greater than 15.16 mgd.															
<b>Water Reclamation Facility #1 Tertiary Filters</b>	WR CAP	440		Ongoing										10,287,000	10,287,000
Additional filters required to handle maximum capacity.															
<b>Water Reclamation Facility #3 Decommissioning Phase 2 Force Main</b>	WR CAP	440		Ongoing										8,492,850	8,492,850
Install 23,300 feet of 18" force main.															
<b>Water Reclamation Facility #3 Decommissioning Phase 2 Gravity Sewer</b>	WR CAP	440		Ongoing										1,861,200	1,861,200
Install 5,170 feet of 24" gravity sewer from Ontario and Main to Olive Street.															
<b>Water Reclamation Facility #3 Decommissioning Phase 2 Pumping Improvements</b>	WR CAP	440		Ongoing										1,228,500	1,228,500
Phase 2 pumping improvements to decommission Water Reclamation Facility #3.															
Water Reclamation Capacity Fund Subtotal					\$ 2,266,047	\$ -	\$ 91	\$ 2,266,138	\$ 2,000,000	\$20,000,000	\$ -	\$ -	\$ -	\$ 36,486,864	\$ 60,753,002

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<b><u>WATER RECLAMATION UTILITY FUND</u></b>															
<b><u>Water Reclamation Lift Station - Griffin</u></b> 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
<b><u>Sewer Main Replacement - Rincon</u></b> 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
<b><u>Ahmanson Lift Station Upgrade</u></b> 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 2014	180,194	39,477	280,329	500,000							500,000
<b><u>Water Reclamation Facility 1 Site Grading and Drainage Plan</u></b> Analyze the existing site drainage. Prepare comprehensive grading and site improvement plans to bid and award for construction.	WR UTIL	572	6586	June 2014	35,835		464,165	500,000							500,000
<b><u>Water Reclamation Facility #1 Natural Gas Line</u></b> Installation of natural gas line from Prado Dam Well to Water Reclamation Facility #1.	WR UTIL	572	6703	Ongoing			200,000	200,000							200,000
<b><u>Cota Sewer Improvement</u></b> Cota Street Syphon valve removal/ improvement.	WR UTIL	572	6705	Ongoing	23,150		326,850	350,000							350,000
<b><u>Sierra Del Oro Lift Station Pump Improvement</u></b> Acquisition and installation of a Dri-Prime NC150 pump and concrete pad.	WR UTIL	572	6732	Ongoing	8,557	66,825	24,618	100,000							100,000
<b><u>Small Sewer Line Replacement</u></b> Small sewer line replacement and repairs throughout system as pipes reach service life or in conjunction with Public Works street repair and maintenance.	WR UTIL	572	6830	Ongoing			1,350,000	1,350,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	30,000,000	38,850,000
<b><u>Research/Railroad Sewer Line Replacement</u></b> Replace 2100 linear feet of deficient sewer lines.	WR UTIL	572	6840	Ongoing	8,721		491,279	500,000							500,000

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<b><u>WATER RECLAMATION UTILITY FUND, Continued</u></b>															
<b><u>Water Reclamation Facility #1 Chlorine Contact Tank (CCT) Influent Vault Project</u></b> Installation of a static mixer and chemical injection system.	WR UTIL	572	6855	Ongoing	16,838		183,162	200,000							200,000
<b><u>The Ponds - Influent Piping Project</u></b> Modify the influent piping access at the Lincoln and Cota ponds.	WR UTIL	572	6856	Ongoing	18,500		181,500	200,000							200,000
<b><u>Water Reclamation Facility #2 Piping and Paving</u></b> Install 400 linear feet of 16" ductile iron effluent pipeline.	WR UTIL	572	6858	Ongoing			125,000	125,000							125,000
<b><u>Sierra Del Oro Lift Station Replacement</u></b> 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					1,000,000	1,500,000					2,500,000
<b><u>Water Reclamation Facility #1 - Dryer System Improvements</u></b> Replace the dust collection system for Air Quality Management District (AQMD) air compliance and the Regenerative Thermal Oxidizer (RTO).	WR UTIL	572	6872	June 2014					300,000						300,000
<b><u>Water Reclamation Facility #1 - Improvements Canopies, Digester Gas Piping, Analyzer Control</u></b> Improvements to include canopies, Digester Gas Piping and Analyzer Control Building.	WR UTIL	572	6873	June 2014					300,000						300,000
<b><u>Water Reclamation Facility # 2 Headworks Screening Replacement</u></b> Installation of an additional auger/grinder system. Sewer Master Plan Project T-15/ T-22.	WR UTIL	572	7124	June 2014	166,965		2,133,035	2,300,000							2,300,000
<b><u>Airport Lift Station Replacement</u></b> 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
<b><u>McKinley Lift Station Upgrade</u></b> New facility will be a 120 gpm duplex wet well/dry well design. Master Plan Project LS-7.	WR UTIL	572		Ongoing										2,200,000	2,200,000
<b><u>Prado Lift Station Replacement</u></b> Replace existing lift station with a 120 gpm duplex wet well facility. Master Plan Project LS-4.	WR UTIL	572		Ongoing										2,200,000	2,200,000

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<b><u>WATER RECLAMATION UTILITY FUND, Continued</u></b>															
<b><u>Sewer Main Replacement - Crawford/Merrill</u></b> 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
<b><u>Sewer Main Replacement - Garretson</u></b> 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
<b><u>Sewer Main Replacement - Mangular</u></b> 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
<b><u>Sewer Main Replacement - Smith</u></b> 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
<b><u>Stagecoach Lift Station &amp; Force Main Replacement</u></b> 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
<b><u>Water Reclamation Facility #3 Decommissioning Phase 1 Bedford Canyon Lift Station Replacement</u></b> Increase capacity at Bedford Canyon Lift Station to 1,150.gpm.	WR UTIL	572		Ongoing						1,687,500					1,687,500
<b><u>Water Reclamation Facility #3 Decommissioning Phase 1 Force Main and Gravity Sewer</u></b> 12" force main from Bedford Canyon Lift Station to Chase Drive and California Avenue.	WR UTIL	572		Ongoing						2,050,191					2,050,191
<b><u>Water Reclamation Facility #3 Decommissioning Phase 1 Pumping Improvements</u></b> Phase 1 pumping improvements to decommission Water Reclamation Facility #3.	WR UTIL	572		Ongoing						432,000					432,000
<b>Water Reclamation Utility Fund Subtotal</b>									\$ 3,100,000	\$ 3,000,000	\$ 8,369,691	\$ 1,500,000	\$ 1,500,000	\$ 42,170,000	\$ 65,964,691

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<b><u>MULTI-FUND PROJECTS</u></b>															
<b><u>Water Reclamation Facility #1 - Headworks Screening Replacement</u></b>	WR REV	454	6012	June 2014	\$ 708		\$ 439,564	\$ 440,272							\$ 440,272
Project will replace existing influent screening units with new and more effective units and add a third unit for redundancy.	WR UTIL	572	6012		99,728			99,728							99,728
<b><u>Water Reclamation Facility #2 Tertiary Treatment</u></b>	WR CAP	440	6013	June 2014					2,500,000						2,500,000
Upgrade facility to full tertiary treatment.	WR UTIL	572	6013		812,283	150,860	2,536,857	3,500,000	2,500,000						6,000,000
<b><u>Water Reclamation Facility #1B Expansion</u></b>	WR CAP	440	6014	June 2014	4,003			4,003	250,000						254,003
Install Primary clarifiers, aeration optimization, and digesters.	WR REV	454	6014		75,058		916,937	991,995							991,995
	WR UTIL	572	6014		4,002			4,002	500,000						504,002
<b><u>Water Reclamation Facility #1 Centrifuge</u></b>	WR REV	454	6261	June 2014	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
<b><u>Water Reclamation Facility 1 Digester #2 Dome Replacement</u></b>	WR REV	454	6585	June 2014	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			3,946							3,946
<b><u>Water Reclamation Facility #1 Biosolids Processing Upgrade</u></b>	WR REV	454	6831	Ongoing	105,368		1,057,789	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				586,843	586,843							586,843
<b><u>Lift Station Improvements Water Reclamation Facility #2</u></b>	WR CAP	440	8423	Ongoing	183,343			183,343						582,582	765,925
Replace electrical and control systems. Recoat the piping and structure. Address mechanical deficiencies. Sewer Master Plan Project T-13.	WR UTIL	572	8423		443,496		225,250	668,746						3,578,721	4,247,467
<b><u>Sewer Main Replacement - Green River Road</u></b>	WR CAP	440	8424	June 2015	5,117			5,117		2,200,000					2,205,117
Replace approximately 1,047 feet of 15" pipe and 1,499 feet of 18" pipe on Green River. Sewer Master Plan Project P-5.	WR UTIL	572	8424		53,794			53,794		750,000					803,794
Multi-Fund Projects Subtotal					\$ 1,824,274	\$ 150,860	\$ 6,925,866	\$ 8,901,000	\$ 5,750,000	\$ 2,950,000	\$ -	\$ -	\$ -	\$ 4,161,303	\$ 21,762,303

**TOTAL WATER RECLAMATION FACILITIES** \$ 4,657,081 \$ 257,162 \$ 12,767,895 \$ 17,682,138 \$10,850,000 \$25,950,000 \$ 8,369,691 \$ 1,500,000 \$ 1,500,000 \$82,818,167 \$ 148,669,996