

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 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	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>HiOx UltraFlex Aeration Panel at Water Reclamation Facility #1</u> Replacement of existing generation panels with 186 high efficiency fine bubble air distribution panels at WRF #1.	WR UTIL	474	6011	June 2013	\$ 609,216	\$ 3,316	\$ 183,968	\$ 796,500							\$ 796,500	

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<u>Water Reclamation Facility #1 - Headworks 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	474	6012	June 2013	99,728		440,272	540,000							540,000
<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>Water Reclamation Facility #1 Centrifuge</u> Centrifuge facility to replace the current belt press.	WR UTIL	474	6261	June 2013	33,300		666,700	700,000							700,000
<u>Water Reclamation Facility #1 Time Schedule Enforcement - Pump Station</u> Design and construction of a pump station from the chlorine contact tank at Water Reclamation Facility #1 to the pond discharge line.	WR UTIL	474	6279	June 2013	1,133,945	32,500	183,555	1,350,000							1,350,000
<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
<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	474	6562	June 2013	35,517	155,189	309,294	500,000							500,000
<u>Water Reclamation Facility 1 Digester #2 Dome Replacement</u> Remove and replace the aged floating roof for Digester #2 at WRF 1.	WR UTIL	474	6585	June 2013	3,946		496,054	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	474	6586	June 2013	35,294		464,706	500,000							500,000
<u>EI Cerrito Sewer Main</u> Relocate existing sewerline as requested by the Riverside County Economic Development Agency. The existing 8 inch sewerline will be upgraded to a 12 inch upon relocation.	WR UTIL	474	6701	June 2013			448,000	448,000							448,000

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<u>WATER RECLAMATION UTILITY FUND, Continued</u>															
<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	474	6703	Ongoing			200,000	200,000							200,000
<u>Cota Sewer Improvement</u> Cota Street Syphon removal.	WR UTIL	474	6705	Ongoing			350,000	350,000							350,000
<u>Small Sewer Line Replacement</u> Small sewerline 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					1,500,000	1,500,000	1,500,000	1,500,000	1,500,000		7,500,000
<u>Water Reclamation Facility #1 Biosolids Processing Upgrade</u> Sludge tank and sludge screening project to demolish and remove existing sludge blender tank and modify chlorine contact tank.	WR UTIL	572	6831	Ongoing					1,750,000						1,750,000
<u>Metering Improvements</u> Installation of a new Influent bypass meter at the Water Reclamation Facility # 2. Sewer Master Plan Project T-23.	WR UTIL	474	7125	June 2013	229,789		69,338	299,127							299,127
<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>McKinley Lift Station Upgrade</u> 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
<u>Prado Lift Station Replacement</u> 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
<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 - Fullerton, Ford & Rimpau</u> Replace 8 " and 10" pipe in these locations that have been identified to flow with d/D ratios in excess of the established criteria under existing conditions. Sewer Master Plan Project P-13.	WR UTIL	572		June 2015						1,130,000					1,130,000

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WATER RECLAMATION UTILITY FUND, Continued																			
Sewer Main Replacement - Garretson 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				
Sewer Main Replacement - Mangular 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				
Sewer Main Replacement - Smith 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				
Sierra Del Oro Lift Station Replacement Replace with new wet well/dry well station similar in design to the recently constructed Joy/Parkridge facility. Pump capacity should be 1950 gpm for ultimate service flow. Master Plan Project LS-3.	WR UTIL	572		Ongoing									2,500,000		2,500,000				
Stagecoach Lift Station & Force Main Replacement 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 Facility #3 Decommissioning Phase 1 Bedford Canyon Lift Station Replacement Increase capacity at Bedford Canyon Lift Station to 1,150.gpm.	WR UTIL	572		Ongoing						1,687,500					1,687,500				
Water Reclamation Facility #3 Decommissioning Phase 1 Force Main and Gravity Sewer 12" force main from Bedford Canyon Lift Station to Chase Drive and California Avenue.	WR UTIL	572		Ongoing						2,050,191					2,050,191				
Water Reclamation Facility #3 Decommissioning Phase 1 Pumping Improvements Phase 1 pumping improvements to decommission Water Reclamation Facility #3.	WR UTIL	572		Ongoing						432,000					432,000				
Water Reclamation Utility Fund Subtotal									\$ 2,180,735	\$ 191,005	\$ 3,811,887	\$ 6,183,627	\$ 3,250,000	\$ 5,669,691	\$ 2,630,000	\$ 4,200,000	\$ 4,000,000	\$ 12,170,000	\$ 38,103,318

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<u>MULTI-FUND PROJECTS</u>															
<u>Water Reclamation Facility #2 Time Schedule Enforcement</u>	WR UTIL	474	6013	June 2014	\$ 336,338	\$ 315,903	\$ 347,759	\$ 1,000,000							\$ 1,000,000
Upgrade facility to full tertiary treatment.	WR UTIL	572	6013						2,500,000	2,500,000					5,000,000
<u>Water Reclamation Facility #1B Expansion</u>	WR CAP	440	6014	June 2014	4,002		245,998	250,000	250,000	250,000					750,000
Primary clarifiers, aeration optimization, digesters.	WR UTIL	474	6014		4,002		245,998	250,000							250,000
	WR UTIL	572	6014						250,000	250,000					500,000
<u>Membrane Bioreactor, or MBR, Plant at Water Reclamation Facility #2</u>	WR CAP	440	6262	June 2013	2,252,002	14,355	33,643	2,300,000							2,300,000
Design, construct and purchase membrane treatment plant at Water Reclamation Facility #2, including removal of temporary generator trailer to permanent pad. Master Plan Project T-25.	WR UTIL	474	6262		2,258,641	1,078	40,282	2,300,001							2,300,001
<u>Water Reclamation Facility # 2 Headworks Screening Replacement</u>	WR UTIL	474	7124	June 2013	134,193		790,807	925,000							925,000
Installation of an additional auger/grinder system. Sewer Master Plan Project T-15/ T-22.	WR UTIL	572	7124						1,375,000						1,375,000
<u>Digester System Capacity Expansion</u>	WR CAP	440	8315	June 2013	253,045		98,599	351,644	50,000						401,644
Enhancement to digester system located at Water Reclamation Facility #1.	WR UTIL	474	8315		661,245		69,111	730,356							730,356
	WR UTIL	572	8315						50,000						50,000
<u>Lift Station Improvements Water Reclamation Facility #2</u>	WR CAP	440	8423	Ongoing	48,303		133,500	181,803						582,582	764,385
Replace electrical and control systems. Recoat the piping and structure. Address mechanical deficiencies. Sewer Master Plan Project T-13.	WR UTIL	474	8423		47,745		46,000	93,745							93,745
	WR UTIL	572	8423											3,578,721	3,578,721
<u>Sewer Main Replacement - Green River Road</u>	WR CAP	440	8424	June 2013	4,814		1,161,687	1,166,501							1,166,501
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	474	8424		53,794		374,206	428,000							428,000
Multi-Fund Projects Subtotal					\$ 6,058,124	\$ 331,336	\$ 3,587,590	\$ 9,977,050	\$ 4,475,000	\$ 3,000,000	\$ -	\$ -	\$ -	\$ 4,161,303	\$ 21,613,353
TOTAL WATER RECLAMATION FACILITIES					\$ 8,238,859	\$ 522,341	\$ 7,399,477	\$ 16,160,677	\$ 7,725,000	\$ 8,669,691	\$ 2,630,000	\$ 4,200,000	\$ 4,000,000	\$ 52,818,167	\$ 96,203,535