

CAPITAL IMPROVEMENT PROGRAM - Project Cost Listing

WATER

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
WATER CAPACITY FUND															
Cota Ponds - Expansion/ Modification Pump, injection wells, treatment facilities, and retrofit of basins.	WTR CAP	507	6015	June 2019								\$ 2,500,000	\$ 2,500,000		\$ 5,000,000
Home Gardens Pipeline Construct approximately 12,000 feet of ductile iron pipe from the well to Quarry Street. Agreement with the Western Riverside County Regional Wastewater Authority (WRCRWA) to give Corona voting rights and permission to increase capacity.	WTR CAP	507	6842	Ongoing	156,080	208,998	1,634,922	2,000,000	3,500,000						5,500,000
Coldwater and Mayhew Canyon Recharge Basins Construct recharge basins to capture storm water runoff to allow the flow to return to the aquifer.	WTR CAP	507	6907	June 2015	67,205	627,795		695,000							695,000
Water Capacity Fund Subtotal					\$ 223,285	\$ 836,793	\$ 1,634,922	\$ 2,695,000	\$ 3,500,000	\$ -	\$ -	\$ 2,500,000	\$ 2,500,000	\$ -	\$ 11,195,000

RECLAIMED WATER SYSTEM FUND

Stagecoach Park Reclaimed Waterline Install 12-inch diameter pipeline to receive Norco reclaimed water.	REC WTR	567	6559	June 2015	\$ 187,578	\$ 6,286	\$ 2,824,364	\$ 3,018,228							\$ 3,018,228
Butterfield Park Reclaimed Waterline Connect 5600 feet of 12" pipe to an existing pipeline at the intersection of Stagecoach Road and Corydon Street, continue southwest along Corydon to connect to an existing 12" reclaimed waterline in Butterfield Drive to feed Butterfield Park.	REC WTR	567	6561	June 2015	2,821,310	226,480	952,210	4,000,000							4,000,000
Chase Park Reclaimed Waterline Construct 1,500 feet of 8" ductile pipe from Foothill Parkway to Chase Park.	REC WTR	567	6843	Ongoing	2,180			2,180				450,000			452,180
Reclaimed Water Zone 2 to Zone 3 Project Construct 10,000 feet of 12" ductile pipe from City Park to Centennial High.	REC WTR	567	6844	Ongoing	2,245			2,245				3,000,000			3,002,245
Promenade Reclaimed Waterline Project Construct 6,000 feet of 12" ductile pipe from McKinley to East Sixth Street.	REC WTR	567	6845	Ongoing	2,182			2,182	1,750,000						1,752,182

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<u>RECLAIMED WATER SYSTEM FUND, CONTINUED</u>																
Border Reservoir - Reclaim Flow Control Valve Project provides the ability to control flow from Gilbert to Water Reclamation Facility I based on winter water usage to allow water from the system to be placed in ponds.	REC WTR	567	6970	Ongoing					45,000						45,000	
Western Riverside County Regional Wastewater Authority Reclaimed Waterline Construct waterline from Plant to Bluff/ River Road.	REC WTR	567	6971	Ongoing					200,000		3,000,000				3,200,000	
Corona Hills Reclaimed Reservoir reservoir and related reclaimed water pipeline near Hidden Valley Golf Course.	REC WTR	567		Ongoing						1,000,000	5,000,000				6,000,000	
Old Temescal Road Recycled Water Line Install 8" line for 4400 feet, from Fullerton and Old Temescal easterly to Compton.	REC WTR	567		Ongoing						860,000					860,000	
Reclaimed Water System Fund Subtotal						\$ 3,015,495	\$ 232,766	\$ 3,776,574	\$ 7,024,835	\$ 245,000	\$ 3,610,000	\$ 8,000,000	\$ 3,450,000	\$ -	\$ -	\$ 22,329,835

WATER UTILITY FUND

Sampson Flow Control Valve Automation Design and construct an automated bypass valve around existing Corp Circle butterfly valve, improving Supervisory Control and Data Acquisition (SCADA).	WTR UTIL	570	6017	June 2015	\$ 616,990	\$ 73,000	\$ 145,210	\$ 835,200							\$ 835,200
Desalter Interstage Boosters/ Brine Recovery Design and install interstage booster systems on Trains 1 through 4 or utilize Brine Recovery technology.	WTR UTIL	570	6018	Ongoing						465,000					465,000
Waterline Replacement - Smith Replace 2,100 feet of 10" ACP with 12" PVC, ten water services, 15 fire services and 3 "T" connectors.	WTR UTIL	570	6282	June 2015	114,061	3,315	580,317	697,693							697,693
SR-91 DWP Facility Relocations Agreement with RCTC for the relocation and replacement of certain water facilities adjacent to and crossing the 91 freeway, including the relocation of Well 24.	WTR UTIL	570	6284	Ongoing	128,414		271,586	400,000					3,000,000		3,400,000

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<u>WATER UTILITY FUND, Continued</u>															
<u>Lee Lake Service Boundary Adjustment</u> In conjunction with the Lee Lake Water District, installation of tie overs which will remove service from the Corona service line for the service boundary areas along Temescal Canyon Road near Weirick Avenue and connect to the Lee Lake Service. In addition, construct an interconnection between the two services to provide redundancy in case of an emergency.	WTR UTIL	570	6563	June 2015	48,712		126,288	175,000							175,000
<u>Small Waterline Replacement</u> Small Waterline repairs throughout system as pipe reaches service life. Master Plan Project P-15.	WTR UTIL	570	6573	Ongoing	2,780		313,600	316,380	1,000,000	6,000,000	2,000,000	2,000,000	2,000,000	2,000,000	15,316,380
<u>Waterline Replacement - 900 Block W. Ninth Street</u> Install 755 feet of 8" waterline in W. Ninth Street from Merrill to Belle. Install 3 hydrants and tie in 20 waterlines in alley. Water Master Plan Project P-26.	WTR UTIL	570	6608	Ongoing	270,137	56,840	178,023	505,000	1,000,000		1,000,000				2,505,000
<u>Waterline Replacement-Ninth Street, east of Main Street to East Grand Boulevard</u> Install approximately 2,112 linear feet of 8" waterline. Abandon existing pre-1925 4" steel waterline. Replace 15 service lines. Water Master Plan Project P-24.	WTR UTIL	570	6611	Ongoing	166,972	30,430	602,598	800,000			2,000,000				2,800,000
<u>Replacement of Reservoir Control Valve</u> Replacement and modification to the altitude control valves at Garretson, Mangular, Gilbert, Hayden, and Cresta Verde reservoirs. Modifications to inlet/ outlet piping at Green River, Avenida Del Vista and Hayden to correct problems created by a common inlet/ outlet setup. Water Master Plan Project R-8.	WTR UTIL	570	6647	Ongoing					210,000					210,000	420,000
<u>Pressure Reducing Station - Hummingbird to Pine Crest Sub Zone</u> Install new pressure reducing station on or near Ontario Avenue to Zone 3, add a check valve at Pine Crest to serve as redundancy for fire service to serve area between Ontario and Pine Crest on Paseo	WTR UTIL	570	6699	June 2015	497,845		21,393	519,238							519,238
<u>Ontario Zone 4 - Buena Vista to Taylor</u> Upsize existing waterline to 12".	WTR UTIL	570	6704	Ongoing	4,278		17,482	21,760				2,050,000			2,071,760
<u>Bedford Canyon Flow Station</u> Raise station above ground.	WTR UTIL	570	6799	Ongoing			50,000	50,000							50,000

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<u>WATER UTILITY FUND, Continued</u>															
<u>Lester Inlet Valve Relocation</u> Relocate valve onto property into an open vault with staircase powered by plant generation.	WTR UTIL	570	6817	Ongoing	9,381		390,619	400,000							400,000
<u>Lester Post Disinfection Station</u> Relocate post disinfection injection point onto 30" filter effluent line between filters and Contact Chlorine Basin. Also install two injectors.	WTR UTIL	570	6818	Ongoing	11,771		188,229	200,000							200,000
<u>Mills Flow Station at Lester</u> Raise station above ground.	WTR UTIL	570	6823	Ongoing	1,156		98,844	100,000							100,000
<u>Ontario Zone 4 - Kellogg to Fullerton</u> Install a new 12" waterline.	WTR UTIL	570	6824	Ongoing	1,920		958,080	960,000							960,000
<u>Repipe Well 14</u> Repipe Well 14's discharge piping and raise pump base.	WTR UTIL	570	6826	June 2015	36,639		13,361	50,000	1,000,000						1,050,000
<u>Repipe Well 15</u> Repipe Well 15's discharge piping and raise pump base.	WTR UTIL	570	6827	June 2015	11,332		38,668	50,000	125,000						175,000
<u>Replace Well 22</u> Repipe Well 22's discharge piping and relocate common well valve inside the building.	WTR UTIL	570	6828	June 2015	450		74,550	75,000							75,000
<u>Cathodic Protection on Desalter Wells/ Pipeline</u> Install cathodic protection on Desalter wells/ pipeline.	WTR UTIL	570	6836	Ongoing	14		199,986	200,000							200,000
<u>Corona Airport Waterline</u> Construct 700 feet of 8 inch ductile iron waterline from Jenks Circle to Butterfield Drive.	WTR UTIL	570	6839	Ongoing	76,614		23,386	100,000		250,000					350,000
<u>Home Gardens Water District Well Interconnection Project</u> Construction of a metering facility to allow the City to begin serving the Home Garden's Water District (HGWD) potable water.	WTR UTIL	570	6841	Ongoing	142,534		7,466	150,000							150,000
<u>Masters Drive Reservoir</u> Construction of a potable water reservoir at the Eagle Glen Golf Course.	WTR UTIL	570	6852	Ongoing	26,967		73,033	100,000	250,000		4,000,000				4,350,000

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<u>WATER UTILITY FUND, Continued</u>															
<u>Hidden Springs Road Waterline</u> Install 3,600 linear feet of 16" ductile iron potable water pipeline.	WTR UTIL	570	6857	Ongoing	25,871	80,619	493,510	600,000		1,000,000					1,600,000
<u>Advanced Metering Infrastructure</u> Convert 1,100 meters to "smart" meters and two collectors.	WTR UTIL	570	6865	Ongoing					600,000						600,000
<u>Pressure Reducing Station - Stanislaus</u> New pressure reducing station at Stanislaus Drive and Wasatch Drive. Master Plan Project V-1.	WTR UTIL	570	6867	June 2015			150,000	150,000							150,000
<u>Well Rehabilitation</u> Rehabilitate Well 14 located on Tenth Street between Border and Lincoln. Also, Well 15 on Lincoln near the 91 Freeway.	WTR UTIL	570	6868	June 2015	78,777		221,223	300,000							300,000
<u>Waterline Replacement - Marilyn Drive</u> Replace 6" water line with 8" water line and connect all existing services and fire hydrants to new water line between El Cerrito and Washington Street.	WTR UTIL	570	6902	Ongoing	466,521		8,479	475,000							475,000
<u>Corporation Yard Parking Lot Expansion</u> Expand existing parking lot between the Department of Water and Power building and the Public Works building. In addition, move existing retaining wall to accommodate parking for large vehicles.	WTR UTIL	570	6911	Ongoing	94,743		155,257	250,000							250,000
<u>Temescal Desalter Facility Improvements</u> Provides for necessary improvements which include building code, Americans with Disabilities Act (ADA) upgrades, landscaping and parking improvements.	WTR UTIL	570	6913	Ongoing	138,112	379,623	82,265	600,000							600,000
<u>Arcadia Waterline Replacement</u> Construct 8" looped waterline in the Arcadia-Jolora-Minnesota areas to replace existing waterlines. In addition, replace existing 4" waterline in Orange Street and Boyd Avenue.	WTR UTIL	570	6972	Ongoing					400,000						400,000
<u>Library Conservation Garden</u> Design and install a demonstration garden at the Corona Public Library.	WTR UTIL	570	6973	Ongoing					325,000						325,000

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<u>WATER UTILITY FUND, Continued</u>															
<u>Sierra Del Oro (SDO) Treatment Plant - Canopy</u> Install a solar shade structure above the flocculators/ sedimentation basins and the three filters at the Sierra Del Oro Water Treatment Facility. The structures will include energy efficient LED lighting for enhanced night security. The solar shade structure will help mitigate heat buildup while providing energy for the facility through onsite electricity generation.	WTR UTIL	570	6974	Ongoing					500,000						500,000
<u>Sierra Del Oro (SDO) Treatment Plant - CO2 Injection System</u> Injection system will provide better control of the PH levels to enhance coagulation properties of chemicals.	WTR UTIL	570	6975	Ongoing					600,000						600,000
<u>Sierra Del Oro (SDO) - Valve and Actuator Replacement</u> Replace valve and actuator.	WTR UTIL	570	6976	Ongoing					300,000						300,000
<u>Skyline Reservoir</u> Construct two potable water tanks near the proposed extension of Trudy way.	WTR UTIL	570	6977	Ongoing					300,000		5,000,000				5,300,000
<u>Desalter Chemical Feed System</u> Install a polyphosphate and Y2K chemical system. Water Master Plan Project S-4. Design and install 2,500 gallon antiscalent chemical tank in containment. Design and install 2,500 gallon polyphosphate chemical storage tank in containment. Also install chemical feed system in containment.	WTR UTIL	570	8431	June 2015	88,375		309,929	398,304							398,304
<u>Waterline Replacement - Gunnison</u> Waterline replacement and upsizing. Upsize 750 feet of 8" waterline to 12" to maintain pressure on Gunnison. Water Master Plan Project P-7.	WTR UTIL	570	8434	Ongoing										180,000	180,000
<u>Waterline Replacement - Merrill</u> Replace 2" water line with 810 feet of 12" water line, 3 fire hydrants and 20 services between West Grand and Railroad. Plan Project P-19 and P-32.	WTR UTIL	570	8439	Ongoing	7,020			7,020		250,000					257,020
<u>Desalter Stage 3 Recovery System</u> Install a third stage recovery system to increase the permeation of the combined water flow of trains one through four. This process will yield a longer lifespan of the membrane element.	WTR UTIL	570		Ongoing						2,500,000					2,500,000

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<u>WATER UTILITY FUND, Continued</u>															
<u>Lincoln Waterline</u> Lincoln Avenue waterline from 3rd Street to 10th Street.	WTR UTIL	570		Ongoing						1,000,000					1,000,000
<u>Sixth Street Waterline Replacement - Grand to Rimpau</u> Replace 2,200 LF of pipe from Grand to Rimpau due to service life. Master Plan Project P-31.	WTR UTIL	570		Ongoing										300,000	300,000
<u>Waterline Replacement - Avenida del Vista</u> Replace pipe at Avenida del Vista due to service life: Upsize 1800 LF of 12" and 200 LF of 8". Master Plan Project P-29.	WTR UTIL	570		Ongoing							360,000				360,000
<u>Waterline Replacement - Howard Street</u> Construct 1,713 feet of 8" PVC in Howard Street from Second Street to Seventh Street replacing waterline in alleys and provide new services. Water Master Plan Project P-20.	WTR UTIL	570		Ongoing										2,100,000	2,100,000
<u>Waterline Replacement - Kendall</u> Install 1700 feet of 8' waterline, 12 fire hydrants, and tie in 30 services from alley on West Kendall from Taylor to Main Street.	WTR UTIL	570		Ongoing										350,000	350,000
<u>Waterline Replacement - Oakland Hills and Cypress Point</u> Replace 1,680 feet of 8" waterline, 28 water services, and seven fire hydrants. Water Master Plan Project P-28.	WTR UTIL	570		Ongoing							450,000				450,000
<u>Water Treatment Facilities Effluent Filter Meters</u> Replace DP Cell style flow meters with Magnetic flow meters at all 9 filter effluents.	WTR UTIL	570	6978	Ongoing					200,000						200,000
<u>Water Treatment Facilities Filter Media Exchange</u> Remove and replace all of the Media in 9 filters located at Lester and Sierra Del Oro (SDO) facilities. The current Media has met its life and replacement will allow for filter optimization.	WTR UTIL	570	6979	Ongoing					300,000						300,000
<u>West End Well Field</u> Drill and equip new water supply well number 34 at 333 North Garfield Street.	WTR UTIL	570	6980	Ongoing					1,000,000		7,000,000				8,000,000

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WATER UTILITY FUND, Continued															
West End Well Field Waterline To construct 2,800 feet of 12" and 24" ductile iron pipeline from Garfield Street to Railroad Street and then easterly to a point west of Vicentia Avenue.	WTR UTIL	570	6981	Ongoing					100,000		1,900,000				2,000,000
Water Utility Fund Subtotal					\$ 3,068,386	\$ 623,827	\$ 5,793,382	\$ 9,485,595	\$ 8,210,000	\$ 11,465,000	\$ 23,710,000	\$ 4,050,000	\$ 2,000,000	\$ 8,140,000	\$ 67,060,595

MULTI-FUND PROJECTS

Reclaimed Water Backbone System To design/ construct the citywide recycled water backbone system. \$29.94M is a State Revolving Loan and \$5M is funded by a Water Recycling Grant. Water Master Plan Project S-14.	WR CAP REC WTR WR UTIL	440 567 572	6540 6540 6540	June 2015	\$ 1,113,879 32,768,738 1,965,497		659,385	\$ 1,113,879 33,428,123 1,965,497							\$ 1,113,879 33,428,123 1,965,497
Mangular Blending Facility Install new blending facility.	WTR RV WTR UTIL	453 570	6589 6589	June 2015	611,715 206,259	88,043	6,193,983	6,893,741 206,259							6,893,741 206,259
New Reservoir R-3 The design and construction of new Master Plan Reservoirs R-3.	WTR RV WTR CAP WTR UTIL	453 507 570	6645 6645 6645	Ongoing	4,467,554 232,692 28,930	58,429	78,395 130,000	4,604,378 362,692 28,930	400,000						4,604,378 762,692 28,930
Home Gardens Wells and Ion Exchange Design and construct treatment facilities using the Strong Base Anion-ion Exchange method to handle both nitrate and perchlorate water issues at Wells 11A, 12A and Home Gardens well water.	WTR CAP WTR UTIL	507 570	6851 6851	Ongoing	293,678 193,503		3,226,322 156,497	3,520,000 350,000	4,554,752						8,074,752 350,000
Enterprise Asset Management (EAM) Program Asset Management Program for all DWP facilities.	WTR UTIL WR UTIL ELEC	570 572 578	6866 6866 6866	June 2015	68,736 34,368 11,456	963,264 481,632 160,544	1,068,000 534,000 178,000	2,100,000 1,050,000 350,000							2,100,000 1,050,000 350,000
Supervisory Control and Data Acquisition (SCADA) Panel Replacement Replace 13 existing Modicon 612 PLC's with new AB controllers and IP radios.	WTR UTIL WR UTIL	570 572	6982 6982	Ongoing					400,000 260,000	400,000	400,000				1,200,000 260,000
Multi-Fund Projects Subtotal					\$ 41,997,005	\$ 1,751,912	\$ 12,224,582	\$ 55,973,499	\$ 5,614,752	\$ 400,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 62,388,251

TOTAL WATER FACILITIES \$ 48,304,171 \$ 3,445,298 \$ 23,429,460 \$ 75,178,929 \$ 17,569,752 \$ 15,475,000 \$ 32,110,000 \$ 10,000,000 \$ 4,500,000 \$ 8,140,000 \$ 162,973,681