



"District of Distinction"
Serving the Public – Respecting the
Environment

EL TORO WATER DISTRICT BUDGET 2016/2017



Lake Oroville

EL TORO WATER DISTRICT
BOARD OF DIRECTORS
2016-2017

M. SCOTT GOLDMAN, PRESIDENT
WILLIAM H. KAHN, VICE-PRESIDENT
JOSE F. VERGARA, TREASURER
FREDERICK J. ADJARIAN, DIRECTOR
MARK MONIN, DIRECTOR

OFFICERS

ROBERT R. HILL, GENERAL MANAGER
DENNIS P. CAFFERTY, ASSISTANT GENERAL MANAGER/DISTRICT ENGINEER

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Community Outreach



Budget Overview

MISSION STATEMENT

The mission of the El Toro Water District is to plan and invest appropriately to provide its customers a safe, adequate and reliable supply of water, wastewater and recycled water service in an environmentally and economically responsible way.

FINANCIAL OBJECTIVES

Fiscal 2016-17

- ◆ Establish a revenue cash flow plan that is sufficient to fund the operating budget including the capital replacement & refurbishment program.
- ◆ Establish a reliable, stable and predictable rate adjustment strategy that minimizes impact to customers
- ◆ Maintain a minimum reserve level sufficient to fund legal, board mandated and working capital requirements.
- ◆ Employ cost containment and reduction strategies and practices as appropriate to cost effectively maintain reliable service levels.

BUDGET ASSUMPTIONS

FISCAL YEAR 2016-17

Revenue:

- WATER SALES is based on the purchase of 7,650 acre-feet (af) of water and delivery of 7,350 af to customers. This is in line with state mandates and MWDOC allocations which, among other things require the implementation of a Drought Factor as a part of the Cost of Service Study.
- WATER USAGE CHARGE to cover purchasing water from Metropolitan Water District through Municipal Water District of Orange County will not be increased for fiscal year 2016/17. The Water Usage Charge matches the costs charged to the District for imported water. The local water use charge or delivery charge, which covers the District's costs to deliver water, has not increased; however, effective July 1, 2010 the amount was integrated into the overall water usage charge in connection with the Water Budget-Based Tiered Conservation Rate Structure.
- WATER SERVICE CHARGE (Water System Operations & Maintenance "O&M") will increase effective July 1, 2016 and is supported by an independently prepared Cost of Service Study Report.
- RECYCLED WATER SERVICE CHARGE (Recycled Water System Operations & Maintenance "O&M") will increase effective July 1, 2016 and is supported by an independently prepared Cost of Study Report.
- RECYCLED WATER USAGE CHARGE will be increased effective July 1, 2016 and is supported by an independently prepared Cost of Service Study Report.
- NON-RATE REVENUE reflects shared maintenance of joint facilities with neighboring agencies, communication site leases and other miscellaneous revenues.
- PROPERTY TAX REVENUE represents our share of the 1% general property taxes paid to the State.
- SEWER USAGE AND FIXED RATE the Sewer Usage and Fixed Rate will be increased effective July 1, 2016 and is supported by an independently prepared Cost of Service Study Report.
- INTEREST INCOME is expected to decrease as a result of reduced reserves.
- CAPITAL REPLACEMENT & REFURBISHMENT WATER, SEWER & RECYCLED WATER CHARGE are designed to assist in covering the cost of water, sewer and recycled water capital R&R expenditures during the fiscal year. No changes to these charges for the 2016/17 fiscal year are contemplated.

BUDGET ASSUMPTIONS

FISCAL YEAR 2016-17

Revenue (continued):

- Rate increases will comply with all applicable state constitutional and statutory mandates.

BUDGET ASSUMPTIONS

FISCAL YEAR 2016-17

Expenses:

- PURCHASED WATER costs are affected by the anticipated reduction in water sales along with increased rates charged by Metropolitan Water District of Southern California and Municipal Water District of Orange County.
- ENERGY (electrical power) costs have been decreased based on expected system operations, capital improvements and rate information provided by Southern California Edison.
- SOCWA OPERATIONS costs for regional bio-solids and effluent treatment and disposal have increased.
- LABOR/BENEFITS COST are projected to increase. The increase is driven by continued implementation of the District's Succession Plan, increases in medical premiums, the District's contributions to the employees 401(k) Retirement Savings Plan and administration of a Performance Based Merit Program. The proposed increases are partially offset by increased employee contributions to medical benefits.
- OPERATING COSTS exclusive of purchased water and labor remain relatively flat compared to 2015/16.

BUDGET ASSUMPTIONS

FISCAL YEAR 2016-17

CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM:

Five-Year Capital Replacement & Refurbishment Program

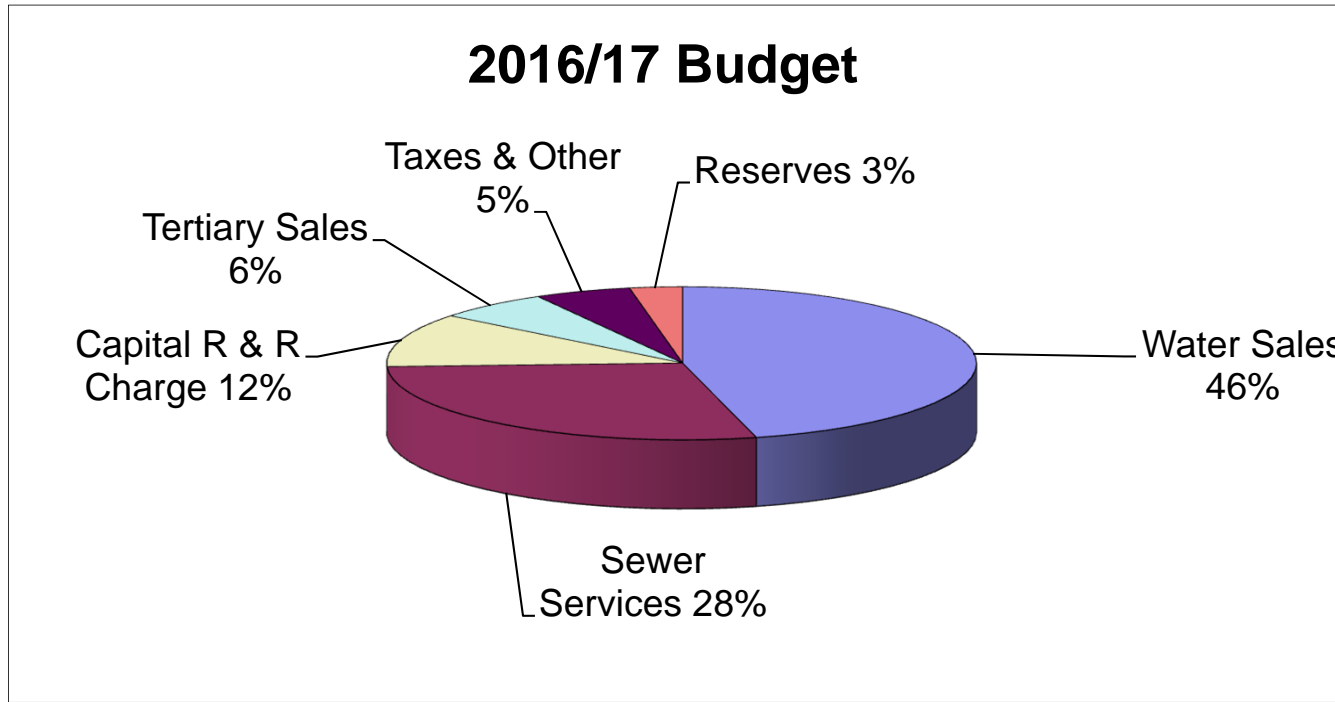
Staff continues to evaluate and update the on-going five-year Water and Sewer Capital Replacement & Refurbishment Plan (CR&R) to preserve its water and sewer infrastructure investment, meet regulatory requirements and ensure a continuous high level of service. CR&R expenditures for fiscal year 2016/17 total \$2,631,536. The 2016/17 CR&R costs will be funded by 1) revenue generated by the CR&R charge, 2) loan proceeds and 3) Tier III & IV restricted reserves.

RESERVES:

The District maintains two categories of reserves: (1) those legally required to be held as the result of contractual agreement (2) Board Mandated reserves. Board Mandated reserves include (1) Capital Replacement & Refurbishment Program reserves for projects approved by the Board of Directors, (2) rate stabilization reserves, (3) operating reserves and (4) working capital. The current minimum reserve level for Board Mandated reserves, established by Board policy, is \$8.5 million. The District's fiscal year 2016-17 Budget includes a provision to utilize reserves to fund a portion of the five-year Capital Replacement & Refurbishment Plan.

EL TORO WATER DISTRICT

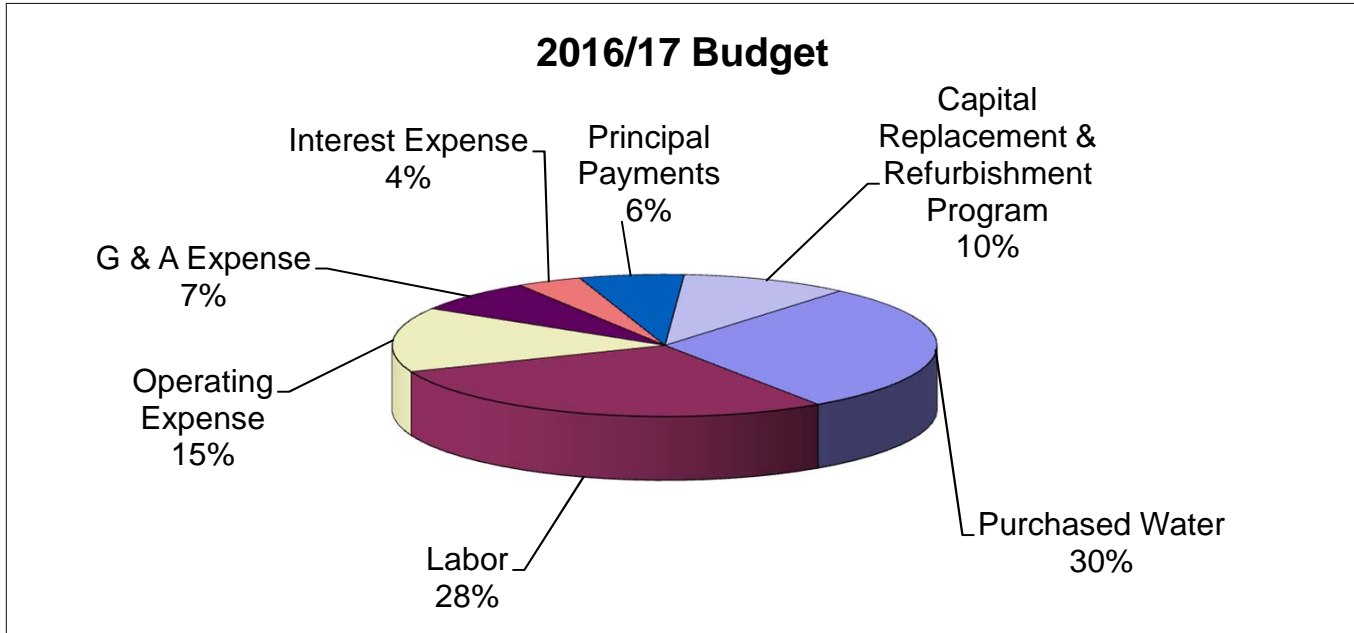
Where The Money Comes From



Water Sales	\$12,129,505
Sewer Services	7,450,000
Capital R & R Charge	3,000,000
Tertiary Sales	1,638,014
Taxes & Other	1,388,500
Reserves	760,075
	<hr/>
	\$26,366,094

EL TORO WATER DISTRICT

Where The Money Goes



Purchased Water	\$7,760,674
Labor	7,495,905
Operating Expense	3,874,246
G & A Expense	1,951,400
Interest Expense	1,017,000
Principal Payments	1,635,333
Capital Replacement & Refurbishment Program	2,631,536
	\$26,366,094

Hydro-Jetter



Operations

**EL TORO WATER DISTRICT
ORGANIZATION CHART 2016 - 2017**

Department	Positions
<u>Administrative Services</u>	
General Manager	1
Asst GM / District Engineer	1
Operations Superintendent	1
Human Resources Manager	1
Public Relations / EP Admin	1
Exec.Assistant to BOD & GM	1
Office Assistant	1
Administrative Assistant	1
Total	8
<u>Information Systems</u>	
Information Technology Manager	1
Total	1
<u>Accounting</u>	
Manager Finance / Controller	1
Accountant / Sr Accountant	2
Supervisor Accounting	1
Total	4
<u>Purchasing/Receiving</u>	
Purchasing Agent	1
Total	1
<u>Customer Service - Office</u>	
C.S. Office Rep. II / Senior	2
Billing Clerk Sr / Spec	2
Total	4
<u>Customer Service - Field</u>	
Crew Chief	1
C.S. Field Rep. II	2
C.S. Field Rep. I	1
Total	4
<u>Engineering</u>	
Engineer Associate	1
Project Engineer	1
Recycled Water Coordinator	1
Compliance Program Coordinator	1
Total	4

Department	Positions
<u>Transmission & Distribution Crew</u>	
Foreman	1
Crew Chief	2
Maintenance Worker III	1
Maintenance Worker II	1
Maintenance Worker II	1
Maintenance Worker I	3
Total	9
<u>Pumping Crew</u>	
Foreman	1
Crew Chief	1
Maintenance Worker III	3
Maintenance Worker II	3
Electrical Sys/SCADA Supv	1
Total	9
<u>Treatment Plant</u>	
Chief Plant Operator	1
Truck Driver	2
Waste Water Operator III	3
Waste Water Operator II	1
Lab Supervisor	1
Lab Technician III	1
Total	9
<u>Collections & Transmissions</u>	
Industrial Waste Inspector	1
Crew Chief	1
Coll. Maintenance Worker III	1
Coll. Maintenance Worker II	1
Coll. Maintenance Worker I	1
Total	5
<u>Automotive</u>	
Senior Mechanic	1
Total	1
<u>Total Positions</u>	<u>59</u>

EL TORO WATER DISTRICT
LABOR / BENEFITS COMPARISON
2016-17

	Budget 2014/15	Budget 2015/16	Budget 2016/17	Change
Labor	\$4,906,930	\$5,089,587	\$5,385,234	\$295,647
Benefits	1,681,856	1,841,099	1,958,066	\$116,967
Workers Compensation and Unemployment Ins.	140,303	146,966	152,605	\$5,639
	<u>\$6,729,089</u>	<u>\$7,077,652</u>	<u>\$7,495,905</u>	<u>\$418,253</u>
Benefits as % of Labor	24.99%	26.01%	26.12%	

EL TORO WATER DISTRICT

BUDGET COMPARISON - Income Statement

Fiscal Years Ending June 30

	Budget 2014/15	Budget 2015/16	Budget 2016/17
Operating Revenue			
Water	\$12,834,906	\$11,996,805	\$12,129,505
Sewer	6,790,000	7,275,000	7,450,000
Capital Facilities Charge	3,000,000	3,000,000	3,000,000
Tertiary	0	1,171,873	1,638,014
Total Operating Revenue	22,624,906	23,443,678	24,217,519
Operating Expense			
Labor	6,729,089	7,077,652	7,495,905
Source of Supply	1,019,427	1,027,474	1,031,825
Purchased Water	8,701,171	7,997,953	7,760,674
Pumping Expense	501,895	609,428	646,119
Treatment Expense	890,119	925,150	759,169
Tertiary Treatment Expense	0	120,900	189,250
Trans. & Dist. Expense	718,738	738,198	764,692
Operating Support	528,807	644,859	483,191
Customer Accounts Expense	8,500	500	0
General & Administrative	1,668,800	1,766,000	1,951,400
Depreciation & Amortization	2,906,845	2,906,845	2,906,850
Total Operating Expense	23,673,392	23,814,959	23,989,075
Operating Income	(1,048,486)	(371,281)	228,444
Non Operating Revenue	1,575,244	1,283,000	1,388,500
Non Operating Expense	(137,000)	(1,138,577)	(1,017,000)
Internal Resources	910,513	3,531,443	760,075
Total Non Operating	2,348,757	3,675,866	1,131,575
Excess of Revenues and Cash Flows Over Expense	\$ 1,300,271	\$ 3,304,585	\$ 1,360,019

EL TORO WATER DISTRICT

BUDGET COMPARISON - Operating Expenses

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Operating Expense			
Labor	\$6,729,089	\$7,077,652	\$7,469,532
Purchased Water	8,701,171	8,370,953	7,760,674
Source of Supply	1,019,427	1,027,474	1,031,825
Pumping Expense	501,895	609,428	603,319
Treatment Expense	890,119	925,150	759,169
Trans. & Dist. Expense	718,738	738,198	764,692
Operating Support	528,806	644,859	483,191
Customer Accounts Expense	8,500	500	0
General & Administrative	1,668,800	1,766,000	1,951,400
Depreciation & Amortization	2,906,845	2,906,845	2,906,850
Total Operating Expense	<u><u>\$23,673,391</u></u>	<u><u>\$24,067,059</u></u>	<u><u>\$23,730,652</u></u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Source of Supply

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
SOCWA	\$926,468	\$920,000	\$904,376
Sources of Supply	92,959	107,474	127,449
Source of Supply	<u>\$1,019,427</u>	<u>\$1,027,474</u>	<u>\$1,031,825</u>
Purchased Water	<u>\$8,701,171</u>	<u>\$7,997,953</u>	<u>\$7,760,674</u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Pumping

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Fuel & Power	\$311,761	\$348,100	\$320,700
Operating & Maintenance Exp.	<u>190,134</u>	<u>261,328</u>	<u>325,419</u>
	<u>\$501,895</u>	<u>\$609,428</u>	<u>\$646,119</u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Treatment

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Fuel & Power	\$613,219	\$695,200	\$537,800
Operating & Maintenance Exp.	<u>276,900</u>	<u>229,950</u>	<u>221,369</u>
	<u>\$890,119</u>	<u>\$925,150</u>	<u>\$759,169</u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Tertiary Treatment

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Fuel & Power	\$0	\$87,400	\$99,200
Operating & Maintenance Exp.	<u>0</u>	<u>33,500</u>	<u>90,050</u>
	\$0	\$120,900	\$189,250

EL TORO WATER DISTRICT

BUDGET COMPARISON - Transmission & Distribution

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Operating & Maintenance Exp.	<u>\$718,738</u>	<u>\$738,198</u>	<u>\$764,692</u>
	<u>\$718,738</u>	<u>\$738,198</u>	<u>\$764,692</u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Operations Support

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Vehicle Maintenance	\$303,893	\$344,845	\$258,180
Warehouse & Facilities	<u>224,914</u>	<u>300,014</u>	<u>225,011</u>
	<u>\$528,807</u>	<u>\$644,859</u>	<u>\$483,191</u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Customer Accounts

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Conservation Programs	<u>\$8,500</u>	<u>\$500</u>	<u>\$0</u>
Total Customer Accounts	<u><u>\$8,500</u></u>	<u><u>\$500</u></u>	<u><u>\$0</u></u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - General & Administration

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Insurance & Damages	\$408,500	\$400,000	\$400,000
Director's Fees	100,000	100,000	90,000
Meetings & Conventions	35,000	55,000	50,000
Legal Fees	125,000	150,000	150,000
Public Relations	152,000	202,500	290,000
General Plant Maintenance	86,000	116,000	78,000
Utilities, Building Security, Janitorial	88,800	102,300	88,200
Auditing Fee	30,000	30,000	30,000
Dues and Memberships	78,000	80,000	80,000
Voice and Data Communications	70,000	70,000	80,000
Publications and Subscriptions	3,000	3,000	3,000
Printing and Reproduction	25,000	25,000	21,000
Equipment Rental	10,000	11,000	12,000
Other Employee Costs	25,000	25,000	28,000
Bank and Paycheck Services	44,000	48,000	48,000
Bad Debts	30,000	30,000	25,000
Employee Events, Education, and Service Awards	14,500	14,700	16,700
Temporary Help	25,000	25,000	40,000
Computer Supplies	75,000	75,000	80,000
Office Supplies	18,000	20,500	21,500
Property Taxes	6,000	6,000	5,500
Elections/Other	45,000	0	30,000
Outside Contractors and Consultants	165,000	166,500	253,000
Postage	10,000	10,500	31,500
Total General & Administrative	<u>\$1,668,800</u>	<u>\$1,766,000</u>	<u>\$1,951,400</u>
Depreciation & Amortization	<u><u>\$2,906,845</u></u>	<u><u>\$2,906,845</u></u>	<u><u>\$2,906,850</u></u>

EL TORO WATER DISTRICT

BUDGET COMPARISON - Non-Operating Income & Expense

Fiscal Years Ending June 30

	<u>Budget 2014/15</u>	<u>Budget 2015/16</u>	<u>Budget 2016/17</u>
Tax Revenue	\$740,000	\$740,000	\$800,000
Interest Income	80,000	50,000	50,000
Other Revenue	<u>755,244</u>	<u>493,000</u>	<u>538,500</u>
Total Non-Operating Revenue	<u><u>\$1,575,244</u></u>	<u><u>\$1,283,000</u></u>	<u><u>\$1,388,500</u></u>
Interest Expense	<u>\$137,000</u>	<u>\$1,138,577</u>	<u>\$1,017,000</u>
Total Non-Operating Expense	<u><u>\$137,000</u></u>	<u><u>\$1,138,577</u></u>	<u><u>\$1,017,000</u></u>



**Recycled Water Project –
Retrofit Program**

**5 – Year Capital Facilities
Replacement & Refurbishment Program**

**EL TORO WATER DISTRICT
FIVE YEAR CAPITAL IMPROVEMENT PLAN
PROJECTS
F.Y. 2016/17 - 2020/2021**

ITEM #	DESCRIPTION	2016/17	2017/18	2018/19	2019/20	2020/21	TOTAL	WATER	SEWER
<i>Source of Supply / Storage Projects</i>									
1	R-2 Reservoir Interior Recoating (E/C)		250,000				250,000	250,000	
2	R-2 Reservoir Exterior Recoating (E/C)		75,000				75,000	75,000	
3	Replace R-6 Sodium Hypochlorite Tanks		200,000				200,000	200,000	
4	Replace Chemical Feed Pumps at R-6 Reservoir					60,000	60,000	60,000	
5	JRWSS Capital Budget	38,222	131,334	780	390	390	171,116	171,116	
	<i>Total Source of Supply</i>	38,222	656,334	780	390	60,390	756,116	756,116	0
<i>Recycled Water Projects</i>									
1	Recycled Water Phase II	8,000,000	4,000,000				12,000,000	12,000,000	
1a	Recycled Water Phase II Funding	(8,000,000)	(4,000,000)				(12,000,000)	(12,000,000)	
	<i>Total Treatment (Water)</i>	0	0	0	0	0	0	0	0
<i>Pumping (Water) Projects</i>									
1	P-3 New MCC with TS, Nema 3R Main & Generator Installation and Pump Replacements				400,000		400,000	400,000	
2	Water Stations PLC Upgrade to Control Logix	25,000	25,000	25,000	25,000	25,000	125,000	125,000	
3	Baker Pump Station	1,800,000					1,800,000	1,800,000	
3a	Baker Pump Station Budget Carryover	(950,390)					(950,390)	(950,390)	
	<i>Total Pumping (Water)</i>	874,610	25,000	25,000	425,000	25,000	1,374,610	1,374,610	0
<i>Pumping (Water) Equipment</i>									
1	Chlorine Injection Trailer Replacement		20,000				20,000	20,000	
2	Cherry Booster Station Pump Replacement					100,000	100,000	100,000	
3	Shenandoah Booster Station Pump Replacement					100,000	100,000	100,000	
	<i>Total Pumping (Water)</i>	0	20,000	0	0	200,000	220,000	220,000	0
<i>Pumping (Sanitation) Projects</i>									
1	Oso Improvement Project	1,500,000					1,500,000		1,500,000
1a	Oso Improvement Project Budget Carryover	(1,500,000)					(1,500,000)		(1,500,000)
2	Aliso Creek Lift Station Skid Pump and Piping				200,000		200,000		200,000
3	Also Creek Lift Station Spare Grinder		50,000				50,000		50,000
4	Sewer Stations PLC Upgrade to Control Logix	25,000	25,000	25,000	25,000	25,000	125,000		125,000
5	4920 Siphon Stabilization			150,000			150,000		150,000
	<i>Total Pumping (Sanitation)</i>	25,000	75,000	175,000	225,000	25,000	525,000	0	525,000
<i>Pumping (Sanitation) Equipment</i>									
1	4920 Generator		5,000				5,000		5,000
2	Northline Lift Station Spare Grinder		80,000				80,000		80,000
	<i>Total Pumping (Sanitation)</i>	0	85,000	0	0		85,000	0	85,000

**EL TORO WATER DISTRICT
FIVE YEAR CAPITAL IMPROVEMENT PLAN
PROJECTS
F.Y. 2016/17 - 2020/2021**

ITEM #	DESCRIPTION	2016/17	2017/18	2018/19	2019/20	2020/21	TOTAL	WATER	SEWER
<i>Treatment (Sanitation) Projects</i>									
1	WRP Main Electrical Power Breaker Upgrade				35,000		35,000		35,000
2	Grit Chamber Rehab/Re-Coating				85,000		85,000		85,000
3	New Scum Station for Clarifiers #3 & #4		35,000				35,000		35,000
4	Secondary Clarifier # 1 Component Replacement			150,000			150,000		150,000
5	Secondary Clarifier # 4 Component Replacement				150,000		150,000		150,000
6	New MCC S-D Electrical Cabinet & Breakers (DAF Unit #1)			30,000			30,000		30,000
7	Reconstruct (west side) Drainage Swayle at the Holding Pond		65,000				65,000		65,000
8	HACH (WIMS) Maint. Job Cal Database Management Software System			10,500			10,500		10,500
9	New SHC Storage Tanks & Chemical Metering Pumps System	225,000					225,000		225,000
10	DAF #1 Pinch Valve, Actuator, ABB Flow Meter, and Bilco Hatch Doors	45,000					45,000		45,000
	<i>Total Treatment (Sanitation)</i>	270,000	100,000	190,500	270,000	0	830,500	0	830,500
<i>Treatment (Sanitation) Equipment</i>									
1	Aeration Basin Diffusers			9,200			9,200		9,200
2	RAS Pumps Upgrade		25,000		25,000		50,000		50,000
3	One Set of Stairs/Handrails to be Installed at each Biofilter	10,500					10,500		10,500
4	OOPS Butterfly Valves		10,000				10,000		10,000
5	Rotostrainer Drum Replacement			30,000			30,000		30,000
6	Effluent Pump Station Pump Replacements			100,000			100,000		100,000
7	Convert EQ Basin Influent Gates to MOV Control	21,000					21,000		21,000
8	Kubota Utility Vehicle for the Plant		10,500				10,500		10,500
9	Portable Trailer Mounted 6.0 inch Pump with Suction & Discharge Hose		40,000				40,000		40,000
10	Stairs/Handrails to be Installed at each Biofilter	16,000					16,000		16,000
11	OOPS Generator Enclosure			70,000			70,000		70,000
	<i>Total Treatment (Sanitation)</i>	47,500	85,500	209,200	25,000	0	367,200	0	367,200
<i>Laboratory Equipment</i>									
1	AQ2 Discrete Analyzer	50,000					50,000		50,000
2	Redesign / Remodel Lab		50,000				50,000		50,000
	<i>Total Laboratory</i>	50,000	50,000				100,000	0	100,000
<i>Outside Treatment (SOCWA)</i>									
1	PC-17 (R)			510,598	357,586	187,628	1,055,812		1,055,812
1a	PC-17 (R) Budget Carryover	(521,563)					(521,563)		(521,563)
2	PC-21					950,000	950,000		950,000
2a	PC-21 Budget Carryover	(212,500)					(212,500)		(212,500)
3	Combined Budget	1,177,267	414,296				1,591,563		1,591,563
	<i>Total Treatment (SOCWA)</i>	443,204	414,296	510,598	357,586	1,137,628	2,863,312	0	2,863,312

**EL TORO WATER DISTRICT
FIVE YEAR CAPITAL IMPROVEMENT PLAN
PROJECTS
F.Y. 2016/17 - 2020/2021**

ITEM #	DESCRIPTION	2016/17	2017/18	2018/19	2019/20	2020/21	TOTAL	WATER	SEWER
<i>Transmission & Distribution Projects</i>									
1	Gate 11 Hydraulic Improvement Project				180,000		180,000	180,000	
2	AMR / AMI Implementation	20,000	200,000	200,000	200,000	200,000	620,000	620,000	
	<i>Total Mainline</i>	20,000	200,000	200,000	380,000	200,000	800,000	800,000	
<i>Collection Equipment</i>									
1	P332 Flexiprobe Inspection System - CUES		20,000				20,000		20,000
2	P350 Flexiprobe Inspection System - CUES				46,000		46,000		46,000
3	24" Smart Covers Manhole Covers		18,000		18,000		36,000		36,000
4	Backup Tractor & TV Camera				45,000		45,000		45,000
5	Portable Motorized Hydro Jetter	75,000					75,000		75,000
6	Arrow Board Trailer	16,000					16,000		16,000
	<i>Total Collection</i>	91,000	38,000	0	109,000	0	238,000	0	238,000
<i>Vehicles/Vehicle Equipment</i>									
1	Vehicle Replacement	100,000	75,000	75,000	75,000	100,000	425,000	212,500	212,500
2	WRP Tractor	200,000					200,000		200,000
3	Dump Truck / Traffic Control Vehicle		150,000				150,000	75,000	75,000
4	Hydro Excavator			450,000			450,000	225,000	225,000
5	Warehouse Forklift					50,000	50,000	25,000	25,000
6	1991 Small Dump Truck (Unit 4)		50,000				50,000	25,000	25,000
7	2001 F-450 Hydrant and Valve Truck (Unit 60)				70,000		70,000	70,000	
8	Customer Service Cart	20,000					20,000	20,000	
9	Mechanics Service Truck (Unit 91)	110,000					110,000	55,000	55,000
	<i>Total Vehicles / Vehicle Equipment</i>	430,000	275,000	525,000	145,000	150,000	1,525,000	707,500	817,500
<i>Construction/Mechanical/Electical Equipment</i>									
1	Backhoe		160,000				160,000	80,000	80,000
2	Valve Turning Machine Trailer or Skid Mounted	35,000					35,000	35,000	
	<i>Total Construction Equipment</i>	35,000	160,000	0	0	0	195,000	115,000	80,000

**EL TORO WATER DISTRICT
FIVE YEAR CAPITAL IMPROVEMENT PLAN
PROJECTS
F.Y. 2016/17 - 2020/2021**

ITEM #	DESCRIPTION	2016/17	2017/18	2018/19	2019/20	2020/21	TOTAL	WATER	SEWER
<i>General Building Projects</i>									
1	Master Plan Update			200,000			200,000	100,000	100,000
2	Main Office Demonstration Garden	250,000					250,000	250,000	
2a	Main Office Demonstration Garden Budget Carryover	(250,000)					(250,000)	(250,000)	
3	Old Treatment Plant / Clear Well Demo					300,000	300,000	300,000	
4	Warehouse Interiors Improvements	15,000					15,000	7,500	7,500
5	Field Ops - Carpeting, Window Coverings	30,000					30,000	15,000	15,000
	<i>Total General Building</i>	45,000	0	200,000	0	300,000	545,000	422,500	122,500
<i>Office Equipment/Furniture</i>									
1	GIS / IMS	150,000	100,000				250,000	125,000	125,000
2	EOC Upgrades	50,000					50,000	25,000	25,000
3	Cross Connection Control Software	12,000					12,000	12,000	
4	Computer Servers	50,000					50,000	25,000	25,000
	<i>Total Office Equipment / Furniture</i>	262,000	100,000	0	0	0	362,000	187,000	175,000
<i>Contingency</i>									
1	Contingency		150,000	250,000	250,000	250,000	900,000	450,000	450,000
2	Inflation @ 5%		72,000	70,000	76,000	44,000	262,000	131,000	131,000
	<i>Total Contingency</i>	0	222,000	320,000	326,000	294,000	1,162,000	581,000	581,000
	<i>Total Capital Projects</i>	1,716,036	1,581,630	1,461,878	1,820,976	1,895,018	8,275,538	3,643,726	4,631,812
	WATER	955,332	936,834	405,780	886,890	658,890	3,643,726	3,643,726	
	SEWER	760,704	644,796	1,056,098	934,086	1,236,128	4,631,812		4,631,812
	<i>Total Capital Equipment</i>	915,500	924,500	894,200	442,000	497,000	3,673,200	1,520,000	2,153,200
	WATER	297,000	343,000	342,500	189,000	348,500	1,520,000	1,520,000	
	SEWER	618,500	581,500	551,700	253,000	148,500	2,153,200		2,153,200
	<i>Total Capital Budget</i>	2,631,536	2,506,130	2,356,078	2,262,976	2,392,018	11,948,738	5,163,726	6,785,012
	WATER	1,252,332	1,279,834	748,280	1,075,890	1,007,390	5,163,726	5,163,726	
	SEWER	1,379,204	1,226,296	1,607,798	1,187,086	1,384,628	6,785,012		6,785,012

Reservoir Management System



2016/2017 Capital Facility
Replacement and Refurbishment Program

2016/17 CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM

Projects

Source of Supply / Storage Projects

1	JRWSS Capital Budget	38,222
		<i>Total Source of Supply</i>
		38,222

Recycled Water Projects

2	Recycled Water Phase II	8,000,000
2a	Recycled Water Phase II Funding	(8,000,000)
		<i>Total Treatment (Water)</i>
		0

Pumping (Water) Projects

3	Water Stations PLC Upgrade to Control Logix	25,000
4	Baker Pump Station	1,800,000
4a	Baker Pump Station Budget Carryover	(950,390)
		<i>Total Pumping (Water)</i>
		874,610

Pumping (Sanitation) Projects

5	Oso Improvement Project	1,500,000
6	Oso Improvement Project Budget Carryover	(1,500,000)
6a	Sewer Stations PLC Upgrade to Control Logix	25,000
		<i>Total Pumping (Sanitation)</i>
		25,000

Treatment (Sanitation) Projects

7	New SHC Storage Tanks & Chemical Metering Pumps System	225,000
8	DAF #1 Pinch Valve, Actuator, ABB Flow Meter, and Bilco Hatc	45,000
		<i>Total Treatment (Sanitation)</i>
		270,000

Outside Treatment (SOCWA)

9	PC-17 (R) Budget Carryover	(521,563)
9a	PC-21 Budget Carryover	(212,500)
9b	Combined Budget	1,177,267
		<i>Total Treatment (SOCWA)</i>
		443,204

Transmission & Distribution Projects

10	AMR / AMI Implementation	20,000
		<i>Total Mainline</i>
		20,000

General Building Projects

11	Main Office Demonstration Garden	250,000
11a	Main Office Demonstration Garden Budget Carryover	(250,000)
12	Warehouse Interiors Improvements	15,000
13	Field Ops - Carpeting, Window Coverings	30,000
		<i>Total General Building</i>
		45,000

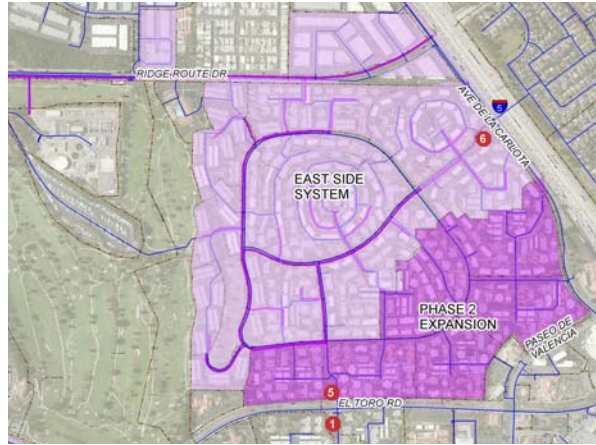
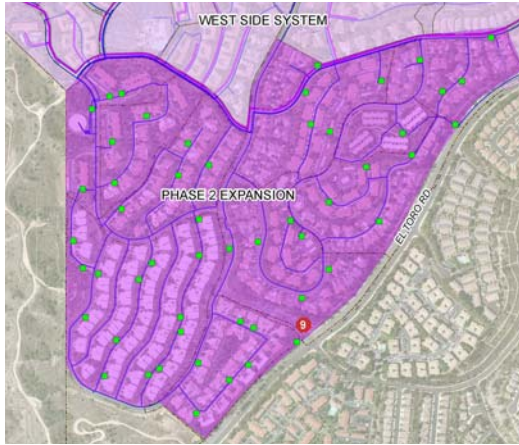
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**Baker Water Treatment
Plant Project – UV
Reactors**

**2016/2017
Capital Facility Project
Descriptions > \$50,000**

PROJECT TITLE: PHASE II RECYCLED WATER DISTRIBUTION SYSTEM EXPANSION PROJECT



CAPITAL PLAN CLASSIFICATION:

RECYCLED WATER (PROJECT #2)

LOCATION:

SYSTEM WIDE

PROJECT BASIS:

Water Supply Reliability

DESCRIPTION:

It is anticipated that the SRF funding agreement for the Phase II Recycled Water Distribution System Expansion Project will be complete by the end of 2016. The project budget contemplates the construction phase of the project.

PROJECT BUDGET:

\$8,000,000

BASIS OF COST ESTIMATE:

Staff project cost estimate based on design engineering construction cost estimates.

PROJECT TITLE: BAKER PUMP STATION



CAPITAL PLAN CLASSIFICATION:

PUMPING WATER
(PROJECT #4)

LOCATION:

SECOND STREET / EL TORO ROAD, LAKE FOREST

PROJECT BASIS:

Water Supply Reliability

DESCRIPTION:

After considering a number of alternatives it was determined the optimum conveyance system for the Baker Water Treatment Plant product water is an interconnection between the IRWD and ETWD distribution systems. The District has previously entered into an Interconnection Agreement with IRWD in which Baker WTP product water will be conveyed through the IRWD distribution system to a new interconnection/pump station near the intersection of El Toro Road and 2nd Street in Lake Forest. The Interconnection will require ETWD design and construct the Baker Pump Station. Further hydraulic analysis during the pump station design led to the decision to construct approximately 4,700 feet of 16” pipeline to convey the water to the R-6 Reservoir transmission system. The 2016/17 budget will carry over and supplement the 2015/16 budget to complete design and construction of the project.

PROJECT BUDGET:

\$ 849,610 (2016/17 Additional Budget)
\$ 950,390 (Carryover from 2015/16)
\$ 1,800,000 (Total 2016/17 Budget)

BASIS OF COST ESTIMATE:

Staff Estimate based on consultant estimates.

PROJECT TITLE: OSO LIFT STATION IMPROVEMENT PROJECT



CAPITAL PLAN CLASSIFICATION:

PUMPING - SEWER
(PROJECT #5)

LOCATION:

OSO LIFT STATION

PROJECT BASIS:

End of Useful Life; Protect Facilities; Reliability; Safety; Energy Efficiency; Environmental Protection

DESCRIPTION:

The Oso Lift Station conveys raw wastewater from the western edge of the District’s service area. The pumps are over 25 years old while the motors are over 30 years old. Both are worn out and inefficient. The current configuration utilizes an extended driveshaft between the motors on the upper level and the pumps on the lower level. The lower level is extremely small making maintenance of these pumps both difficult and hazardous. The safety of the maintenance of this facility will be significantly enhanced by the proposed project. The proposed project will replace the existing worn-out pumps with new submersible pumps. The project also contemplates the negotiation with the Moulton Niguel Water District for the addition of an emergency overflow connection to a nearby MNWD lift station to enhance reliability. The elimination of the extended driveshaft and the replacement of the aged pumps with new submersible pumps will make the Oso Lift Station consistent with other ETWD sewer pumping facilities. An engineering evaluation is currently underway. The 2016/17 budget will carry over the 2015/16 budget to complete both design and construction of the project.

PROJECT BUDGET:

\$ 1,500,000 (Carryover from 2015/16)
\$ 1,500,000 (Total 2016/17 Budget)

BASIS OF COST ESTIMATE:

Staff Estimate.

PROJECT TITLE: RECYCLED WATER SODIUM HYPOCHLORITE STORAGE TANKS AND CHEMICAL METERING PUMP SYSTEM



CAPITAL PLAN CLASSIFICATION:

TREATMENT - SEWER
(PROJECT #7)

LOCATION:

WRP TERTIARY TREATMENT PLANT

PROJECT BASIS:

End of Useful Life; Reliability; Safety; Environmental Protection

DESCRIPTION:

The project replaces the two existing 6,000 gallon Sodium Hypochlorite Storage Tanks and two existing Chemical Metering Pumps with new equipment that is better suited to meet the needs of the new tertiary treatment system.

The existing Sodium Hypochlorite Storage Tanks are nearly 20 years old, have had multiple leaks and currently exhibit signs of significant fatigue. The project will also provide the opportunity to replace all of the old PVC fill, overflow, withdrawal, and chemical metering pumps suction & discharge lines as well as the system level transducers.

The project replaces the two existing chemical metering pumps. The original pumps are nearly 20 years old and have become obsolete making replacement parts difficult to find. The new chemical metering pumps will be able to provide the appropriate capacity range necessary for the chemical dosing demands of the tertiary treatment plant recycled water product.

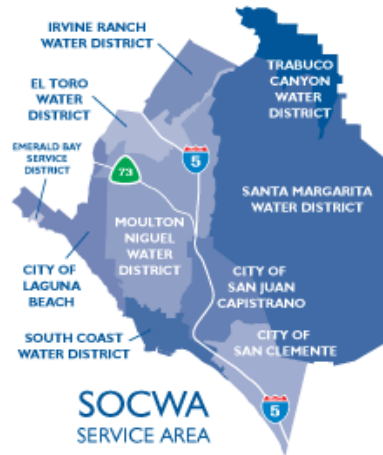
PROJECT BUDGET:

\$225,000

BASIS OF COST ESTIMATE:

Staff Estimate based on manufacturer quotes.

PROJECT TITLE: SOCWA



CAPITAL PLAN CLASSIFICATION:

OUTSIDE TREATMENT - SOCWA (PROJECT #9)

LOCATION:

SOCWA

PROJECT BASIS:

End of Useful Life; Reliability; Environmental Protection; Regulatory Compliance

DESCRIPTION:

The District contribution to support the South Orange County Wastewater Authority capital budget is based on capacity ownership in the various Project Committees. SOCWA collects funding to support the capital improvements on a cash flow basis. The funds collected are intended to support actual costs rather than project budgets.

The 2016/17 budget will carry over and supplement the 2015/16 budget to fund the District’s SOCWA capital obligations.

PROJECT BUDGET:

\$ 443,204 (2016/17 Additional Budget)
\$ 734,063 (Carryover from 2015/16)
\$ 1,177,267 (Total 2016/17 Budget)

BASIS OF COST ESTIMATE:

SOCWA Budget

PROJECT TITLE: MAIN OFFICE DEMONSTRATION GARDEN (PHASE II & III)



CAPITAL PLAN CLASSIFICATION: GENERAL BUILDING (PROJECT #11)

LOCATION: MAIN ADMINISTRATION OFFICE

PROJECT BASIS: Environmental Protection

DESCRIPTION: The District worked with a landscape architect to develop a California Friendly and drought tolerant landscape. The project will rehabilitate the front landscaping on the east and west sides of the Main Office driveway entrance along the frontage turf area for the entire length of the property adjacent to Los Alisos Boulevard. In keeping with the District’s objective to promote the efficient use of water in its service area the landscaping will be designed as a demonstration garden that will include colorful drought tolerant California friendly and native species. The project will also incorporate other features including boulders, dry creek bed concepts, mulch and synthetic turf. The irrigation system will include a weather based irrigation timer and water saving irrigation system.

The Project was designed and bid during the 2014/15 fiscal year. Unfortunately, only one bid was received and the bid amount was twice the landscape architect’s construction estimate. Staff worked with the landscape architect to revise the design and with a separate consultant to complete Value Engineering and construction cost estimate for the project. Staff is working with the landscape architect to incorporate the value engineering recommendations in order to complete the project at a reasonable and affordable cost. The goal is to start the demonstration garden project in October 2016.

District staff is working to obtain any available grant/rebate funding through MET, MWDOC and/or State/Federal programs for the project. The 2016/17 budget will carry over the 2015/16 budget to complete both design and construction of the project.

PROJECT BUDGET: \$250,000 (Carryover from 2015/16)
\$250,000 (Total 2016/17 Budget)

BASIS OF COST ESTIMATE: Staff Estimate

PROJECT TITLE: PORTABLE MOTORIZED HYDRO JETTER



CAPITAL PLAN CLASSIFICATION:

COLLECTION EQUIPMENT (EQUIPMENT #5)

PROJECT BASIS:

End of Useful Life; Efficiency; Environmental Protection

DESCRIPTION:

The District Collection System Maintenance Department utilizes a portable jetter unit to access difficult manholes that are outside the paved streets. The use of this trailer mounted equipment facilitates maintenance of the sewer collection system while minimizing damage to customer property. The existing portable jetter is 30 years old and is obsolete. The proposed new portable hydro jetter will be equipped with 500 feet of hose and a diesel engine that will reduce the noise of the current machine near residences.

PROJECT BUDGET:

\$75,000

BASIS OF COST ESTIMATE:

Staff estimate based on manufacturer quotes.

PROJECT TITLE: VEHICLE REPLACEMENTS



CAPITAL PLAN CLASSIFICATION: VEHICLES / VEHICLE EQUIPMENT (EQUIPMENT #7)

PROJECT BASIS: End of Useful Life

DESCRIPTION: The El Toro Water District fleet includes over 50 vehicles ranging from small pickup trucks to large crew trucks and dump trucks. The District’s Senior Mechanic does an excellent job preserving and extending the useful life of each vehicle to the maximum extent possible. As vehicles age and accumulate significant mileage they are replaced or rotated to less intensive duty to further extend their usefulness. The proposed budget contemplates the purchase of three new Ford pick-up trucks.

PROJECT BUDGET: \$100,000

BASIS OF COST ESTIMATE: The cost estimate was developed by the ETWD Mechanic and is inclusive of vehicle purchase costs, tax and license fees as well as associated costs to outfit the vehicles for District service.

PROJECT TITLE: WRP SLUDGE TRUCK TRACTOR



CAPITAL PLAN CLASSIFICATION: VEHICLES / VEHICLE EQUIPMENT (EQUIPMENT #8)

PROJECT BASIS: End of Useful Life; Efficiency

DESCRIPTION: The District hauls three to four five thousand gallon loads of sludge to the SOCWA Joint Regional Plant every day 365 days per year via a District operated tanker truck. The existing Kenworth semi-tractor is 11 years old and has accumulated over 205,000 miles. The daily hauling of multiple 80,000 pound loads coupled with city driving is very demanding on the vehicle. The existing truck has a history of costly maintenance issues. Staff proposes to replace the existing truck with a heavy duty vehicle specified to accommodate the type of loads and driving conditions necessary for the District sludge hauling job.

PROJECT BUDGET: \$200,000

BASIS OF COST ESTIMATE: The cost estimate was developed by the ETWD Mechanic.

PROJECT TITLE: MECHANICS SERVICE TRUCK



CAPITAL PLAN CLASSIFICATION:

VEHICLES / VEHICLE EQUIPMENT (EQUIPMENT #9)

PROJECT BASIS:

End of Useful Life; Efficiency; Safety

DESCRIPTION:

The District Mechanics Service Truck is utilized to provide mechanical service to District vehicles and stationary generators in remote locations. The current vehicle was previously retrofitted for the application and is not well suited to the current tasks. The existing 18-year old vehicle is not heavy duty enough for the application and lacks the proper mechanical and safety equipment. Staff is proposing to purchase a new vehicle specified and tailored to the needs of the maintenance of the District's vehicle fleet.

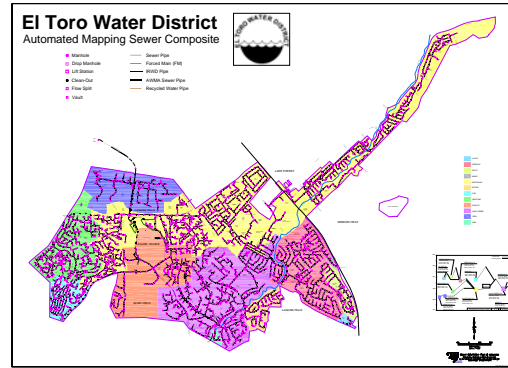
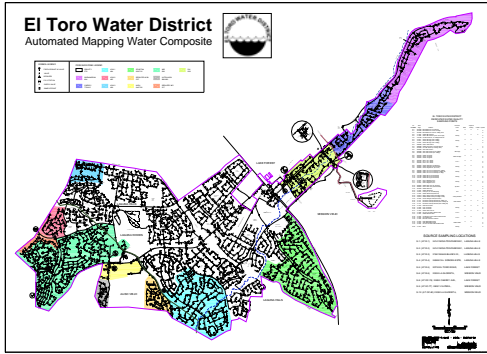
PROJECT BUDGET:

\$110,000

BASIS OF COST ESTIMATE:

The cost estimate was developed by the ETWD Mechanic.

PROJECT TITLE: GIS / IMS



CAPITAL PLAN CLASSIFICATION:

OFFICE EQUIPMENT / FURNITURE (EQUIPMENT #12)

LOCATION:

MAIN OFFICE

PROJECT BASIS:

Operational Efficiency; Maintenance Efficiency

DESCRIPTION:

The proposed project continues the implementation phase of the Computer Maintenance/Asset Management System components. Staff has been pilot testing a Computerized Maintenance Management System. Staff anticipates a full implementation in the 2016/17 fiscal year along with the ensuing development of an Asset Management System.

PROJECT BUDGET:

\$150,000

BASIS OF COST ESTIMATE:

Staff Estimate