



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

# EL TORO WATER DISTRICT BUDGET 2018/2019

**ETWD Water-Wise  
Demonstration Garden**



EL TORO WATER DISTRICT  
BOARD OF DIRECTORS  
2018-2019

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

OFFICERS

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

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# El Toro Reservoir

A wide-angle landscape photograph of El Toro Reservoir. The foreground is dominated by the calm, dark blue water of the reservoir, which perfectly reflects the sky and the distant mountains. The middle ground shows a grassy shoreline with scattered trees and a few small buildings. In the background, a range of rugged, snow-capped mountains rises against a sky filled with large, white, puffy clouds. The overall scene is peaceful and scenic.

**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 2018-19**

- ◆ 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 2018-19**

### Revenue:

- POTABLE WATER SALES is based on the purchase of 7,500 acre-feet (af) of water and delivery of 7,200 af to customers.
- POTABLE WATER USAGE CHARGE to cover purchasing water from Metropolitan Water District through Municipal Water District of Orange County and from the Baker Water Treatment Plant will be increased effective July 1, 2018 and is supported by an independently prepared Cost of Service Study Report.
- POTABLE WATER SERVICE CHARGE (Water System Operations & Maintenance “O&M”) will increase effective July 1, 2018 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, 2018 and is supported by an independently prepared Cost of Study Report.
- RECYCLED WATER USAGE CHARGE will be increased effective July 1, 2018 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 the District’s 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, 2018 and is supported by an independently prepared Cost of Service Study Report.
- INTEREST INCOME is expected to increase as a result of increase in the interest rate.
- CAPITAL REPLACEMENT & REFURBISHMENT WATER, SEWER & RECYCLED WATER CHARGES 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 2018/19 fiscal year are contemplated.
- Rate increases will comply with all applicable state constitutional and statutory mandates.

# **BUDGET ASSUMPTIONS**

## **FISCAL YEAR 2018-19**

### Expenses:

- PURCHASED WATER costs are affected by the anticipated increase in potable water sales along with increased rates charged by Metropolitan Water District of Southern California and Municipal Water District of Orange County and increased O&M costs associated with the District's capacity in the Baker Water Treatment Plant.
- ENERGY (electrical power) costs have been increased 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 decreased.
- 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, labor and depreciation remain relatively flat compared to 2017/18.



# **BUDGET ASSUMPTIONS**

## **FISCAL YEAR 2018-19**

### **CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM:**

#### Five-Year Capital Replacement & Refurbishment Program

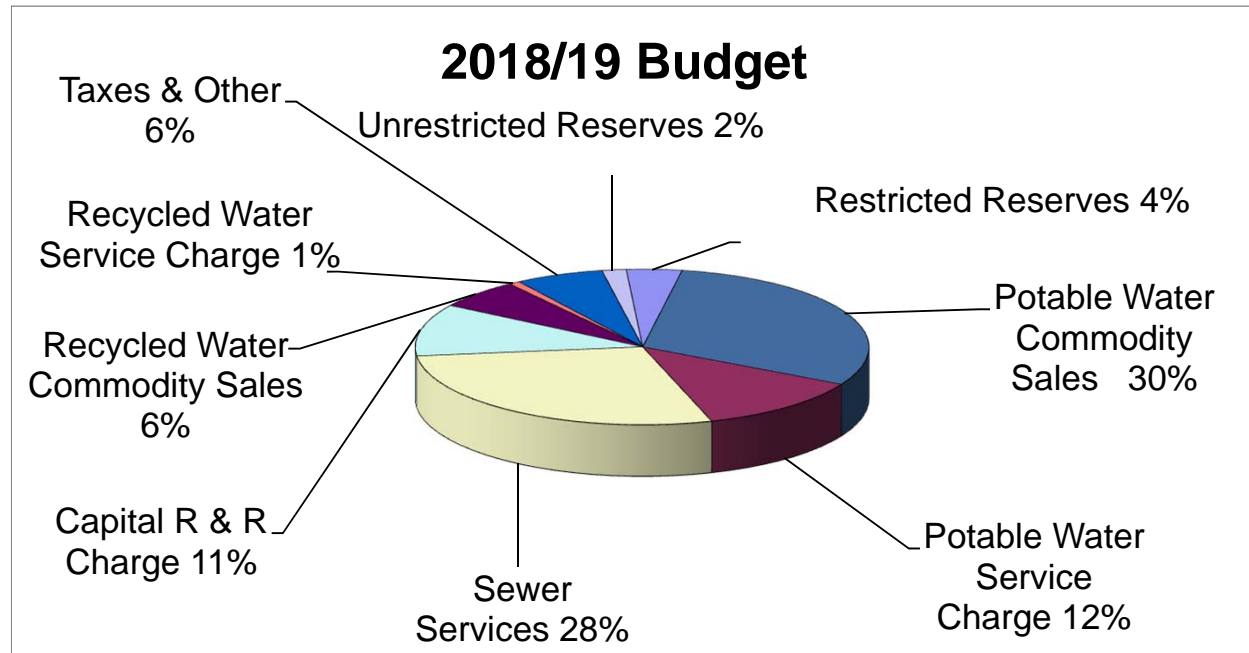
Staff continues to evaluate and update the on-going five-year Water, Sewer and Recycled Capital Replacement & Refurbishment Plan (CR&R) to preserve its water and sewer infrastructure investment, meet regulatory requirements and ensure a continuous high level of service. CR&R expenditures for fiscal year 2018/19 total \$2,400,000. The 2018/19 CR&R costs will be funded by revenue generated by the CR&R charge.

### **RESERVES:**

The District maintains three categories of reserves: (1) those legally required to be held as the result of contractual agreement (2) Board Mandated reserves (3) Board Restricted. 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 2018-19 Budget includes a provision to utilize reserves to fund a portion of the five-year Capital Replacement & Refurbishment Plan.

# EL TORO WATER DISTRICT

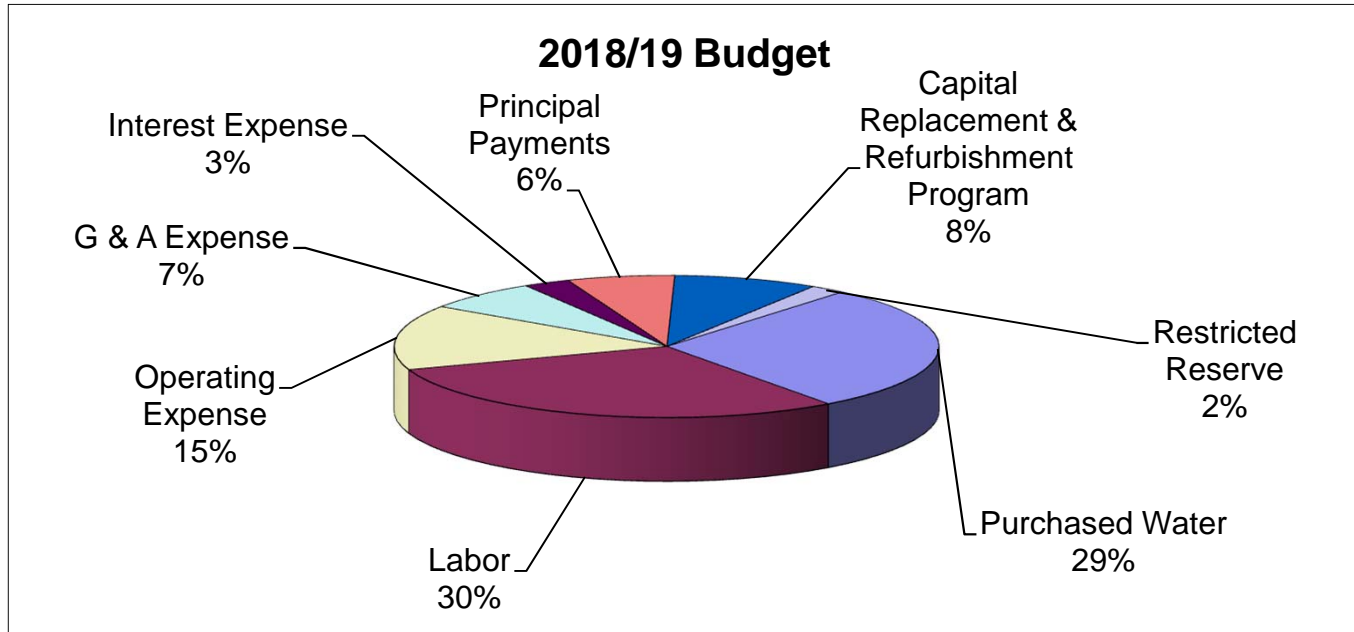
Where The Money Comes From



Potable Water Commodity Sales	\$8,421,658
Potable Water Service Charge	3,364,095
Other Operating Revenue	55,000
Sewer Services	7,800,000
Capital R & R Charge	3,015,000
Recycled Water Commodity Sales	1,695,000
Recycled Water Service Charge	225,000
Taxes & Other	1,692,750
Unrestricted Reserves	480,624
Restricted Reserves Recycled Water / Conservation	412,469
Restricted Reserves Baker Debt Service	100,000
Restricted Reserves	582,151
	<b>\$27,843,747</b>

# EL TORO WATER DISTRICT

## Where The Money Goes



Purchased Water	\$8,027,968
Labor	8,287,837
Operating Expense	4,107,975
G & A Expense	1,908,450
Interest Expense	769,061
Principal Payments	1,776,305
Capital Replacement & Refurbishment Program	2,384,000
Restricted Reserve	582,151
	<hr/>
	\$27,843,747



# Waste Hauler



Operations

**EL TORO WATER DISTRICT  
ORGANIZATION CHART 2018 - 2019**

<b>Department</b>	<b>Positions</b>
<b><u>Administrative Services</u></b>	
General Manager	1
Asst GM / District Engineer	1
Human Resources Manager	1
Public Relations / EP Admin	1
Exec.Assistant to BOD & GM	1
Administrative Assistant	0
Office Assistant	1
Total	<u>6</u>
<b><u>Information Systems</u></b>	
Information Technology Manager	1
Total	<u>1</u>
<b><u>Accounting</u></b>	
Manager Finance / Controller	1
Accountant / Sr Accountant	2
Supervisor Accounting	1
Total	<u>4</u>
<b><u>Purchasing/Receiving</u></b>	
Purchasing Agent	1
Total	<u>1</u>
<b><u>Customer Service - Office</u></b>	
C.S / Billing Supervisor	1
C.S. Office Rep. II / Senior	2
Billing Clerk	1
Total	<u>4</u>
<b><u>Customer Service - Field</u></b>	
Crew Chief	1
C.S. Field Rep. III	1
C.S. Field Rep. I	2
Total	<u>4</u>
<b><u>Engineering</u></b>	
Project Engineer	1
Engineer Associate	1
Inspector	1
Recycled Water Coordinator	1
Total	<u>4</u>
<b><u>Electrical</u></b>	
Electrical Sys/SCADA Supv	1
Total	<u>1</u>

<b>Department</b>	<b>Positions</b>
<b><u>Operations</u></b>	
Operations Superintendent	1
Compliance Program Coordinator	1
Total	<u>2</u>
<b><u>Transmission &amp; Distribution Crew</u></b>	
Foreman	1
Crew Chief	1
Maintenance Worker III	2
Maintenance Worker II	1
Maintenance Worker I	4
Total	<u>9</u>
<b><u>Pumping Crew</u></b>	
Foreman	1
Crew Chief	1
Maintenance Worker III	5
Maintenance Worker II	1
Maintenance Worker I	1
Total	<u>9</u>
<b><u>Treatment Plant</u></b>	
Chief Plant Operator	1
Truck Driver	2
Waste Water Operator III	2
Waste Water Operator II	2
Operator In Training	1
Lab Supervisor	1
Lab Technician I	1
Total	<u>10</u>
<b><u>Collections &amp; Transmissions</u></b>	
Industrial Waste Inspector	1
Crew Chief	1
Coll. Maintenance Worker III	1
Coll. Maintenance Worker II	1
Coll. Maintenance Worker I	1
Total	<u>5</u>
<b><u>Automotive</u></b>	
Senior Mechanic	1
Total	<u>1</u>
<b><u>Total Positions</u></b>	<b><u>61</u></b>

# EL TORO WATER DISTRICT

## BUDGET COMPARISON - Income Statement

Fiscal Years Ending June 30

	Budget 2016/17	Budget 2017/18	Budget 2018/19
<b>Operating Revenue</b>			
Water	\$12,129,505	\$12,036,741	\$12,835,373
Sewer	7,450,000	7,565,000	7,800,000
Capital Facilities Charge	3,000,000	3,015,000	3,015,000
Tertiary	1,638,014	1,658,000	1,920,000
<b>Total Operating Revenue</b>	<b>24,217,519</b>	<b>24,274,741</b>	<b>25,570,373</b>
<b>Operating Expense</b>			
General Operating Expense	12,837,346	14,216,039	15,043,433
Water Enterprise Operating Expense	8,688,057	8,680,085	8,981,271
Sewer Enterprise Operating Expense	2,274,422	2,353,090	2,357,426
Recycled Water Operating Expense	189,250	190,300	256,950
<b>Total Operating Expense</b>	<b>23,989,075</b>	<b>25,439,514</b>	<b>26,639,080</b>
<b>Operating Income</b>	<b>228,444</b>	<b>(1,164,773)</b>	<b>(1,068,707)</b>
Non Operating Revenue	1,388,500	1,483,500	1,692,750
Non Operating Expense	(1,017,000)	(805,729)	(769,061)
<b>Total Non Operating</b>	<b>371,500</b>	<b>677,771</b>	<b>923,689</b>
<b>Excess of Operating Revenues and Cash Flows Over Expense</b>	<b>\$ 599,944</b>	<b>\$ (487,002)</b>	<b>\$ (145,018)</b>
Capital Improvement Program Expenditures		(2,400,000)	(2,384,000)
Depreciation & Amortization (Non-Cash)	2,906,850	4,006,850	4,306,850
Debt Service Principle Payments		(1,737,631)	(1,776,305)
Restricted Reserves used for Baker Debt Service			100,000
Restricted Reserves		(93,596)	(582,151)
<b>Total Deficit</b>		<b>(711,379)</b>	<b>(480,624)</b>



# EL TORO WATER DISTRICT

## BUDGET COMPARISON - General Operations Expenses

Fiscal Years Ending June 30

	<u>Budget 2016/17</u>	<u>Budget 2017/18</u>	<u>Budget 2018/19</u>
<b>General Operations Expense</b>			
Labor	\$7,495,905	\$7,902,953	\$8,287,837
Operations Support	225,011	280,111	302,411
Vehicle Maintenance	258,180	250,175	237,885
General & Administrative	1,951,400	1,775,950	1,908,450
Depreciation & Amortization	<u>2,906,850</u>	<u>4,006,850</u>	<u>4,306,850</u>
<b>Total General Operations Expense</b>	<b><u>\$12,837,346</u></b>	<b><u>\$14,216,039</u></b>	<b><u>\$15,043,433</u></b>

**EL TORO WATER DISTRICT**  
**LABOR / BENEFITS COMPARISON**  
**2018-19**

	<b>Budget 2016/17</b>	<b>Budget 2017/18</b>	<b>Budget 2018/19</b>	<b>Change</b>
Labor	\$5,385,234	\$5,663,492	\$5,893,903	\$230,411
Benefits	1,958,066	2,063,738	2,233,934	170,196
Workers Compensation and Unemployment Ins.	<u>152,605</u>	<u>175,723</u>	<u>160,000</u>	<u>-15,723</u>
	<u><u>\$7,495,905</u></u>	<u><u>\$7,902,953</u></u>	<u><u>\$8,287,837</u></u>	<u><u>\$384,884</u></u>
Benefits as % of Labor	26.12%	26.11%	26.95%	

# EL TORO WATER DISTRICT

## BUDGET COMPARISON - General & Administration

Fiscal Years Ending June 30

	Budget 2016/17	Budget 2017/18	Budget 2018/19
Insurance & Damages	\$400,000	\$405,200	\$470,650
Director's Fees	90,000	93,000	105,000
Meetings & Conventions	50,000	61,000	67,000
Legal Fees	150,000	150,000	150,000
Public Relations	290,000	242,700	225,700
General Plant Maintenance	23,000	16,500	11,500
Utilities, Building Security, Janitorial	88,200	91,700	85,000
Auditing Fee	30,000	30,000	30,000
Dues and Memberships	80,000	75,000	82,000
Voice and Data Communications	80,000	83,000	102,000
Publications and Subscriptions	3,000	3,000	3,000
Printing and Reproduction	21,000	21,000	21,000
Equipment Rental	12,000	12,000	12,000
Other Employee Costs	28,000	15,000	22,000
Bank and Paycheck Services	48,000	54,000	56,500
Bad Debts	25,000	20,000	20,000
Employee Events, Education, and Service Awards	16,700	12,850	18,400
Temporary Help	40,000	11,500	7,500
Computer Supplies	135,000	95,000	155,500
Office Supplies	21,500	26,500	26,500
Property Taxes	5,500	5,500	5,500
Elections/Other	30,000	0	30,000
Outside Contractors and Consultants	253,000	231,000	181,200
Postage	31,500	20,500	20,500
<b>Total General &amp; Administrative</b>	<b>\$1,951,400</b>	<b>\$1,775,950</b>	<b>\$1,908,450</b>
Depreciation & Amortization	<b>\$2,906,850</b>	<b>\$4,006,850</b>	<b>\$4,306,850</b>



# EL TORO WATER DISTRICT

## BUDGET COMPARISON - Water Enterprise Operating Expenses

Fiscal Years Ending June 30

	<u>Budget 2016/17</u>	<u>Budget 2017/18</u>	<u>Budget 2018/19</u>
<b>Water Enterprise Operations Expense</b>			
Source of Supply	\$115,449	\$132,349	\$134,999
Purchased Water	7,760,674	7,691,757	8,027,968
Pumping Expense	306,571	290,971	247,971
Treatment Expense	45,571	41,866	49,641
Trans. & Dist. Expense	459,792	523,142	520,692
Customer Accounts Expense	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total Water Enterprise Operations Expense</b>	<b><u><u>\$8,688,057</u></u></b>	<b><u><u>\$8,680,085</u></u></b>	<b><u><u>\$8,981,271</u></u></b>

# EL TORO WATER DISTRICT

## BUDGET COMPARISON - Sewer Enterprise Operating Expenses

Fiscal Years Ending June 30

	<b>Budget 2016/17</b>	<b>Budget 2017/18</b>	<b>Budget 2018/19</b>
<b>Sewer Enterprise Operations Expense</b>			
SOCWA	\$904,376	\$974,100	\$906,250
Pumping Expense	339,548	377,832	369,848
Treatment Expense	725,598	699,658	793,578
Trans. & Dist. Expense	<u>304,900</u>	<u>301,500</u>	<u>287,750</u>
<b>Total Sewer Enterprise Operations Expense</b>	<b><u>\$2,274,422</u></b>	<b><u>\$2,353,090</u></b>	<b><u>\$2,357,426</u></b>

# EL TORO WATER DISTRICT

## BUDGET COMPARISON - Recycled Water Operating Expenses

Fiscal Years Ending June 30

	<u>Budget 2016/17</u>	<u>Budget 2017/18</u>	<u>Budget 2018/19</u>
<b>Recycled Water Operations Expense</b>			
Tertiary Treatment Expense	189,250	190,300	256,950
Trans. & Dist. Expense	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total Recycled Water Operations Expense</b>	<u><b>\$189,250</b></u>	<u><b>\$190,300</b></u>	<u><b>\$256,950</b></u>

# EL TORO WATER DISTRICT

## BUDGET COMPARISON - Non-Operating Income & Expense

Fiscal Years Ending June 30

	<b>Budget 2016/17</b>	<b>Budget 2017/18</b>	<b>Budget 2018/19</b>
Tax Revenue	\$800,000	\$835,000	\$875,000
Interest Income	50,000	100,000	135,000
Other Revenue	<u>538,500</u>	<u>548,500</u>	<u>682,750</u>
<b>Total Non-Operating Revenue</b>	<b><u><u>\$1,388,500</u></u></b>	<b><u><u>\$1,483,500</u></u></b>	<b><u><u>\$1,692,750</u></u></b>
Interest Expense	<u>\$1,017,000</u>	<u>\$805,729</u>	<u>\$769,061</u>
<b>Total Non-Operating Expense</b>	<b><u><u>\$1,017,000</u></u></b>	<b><u><u>\$805,729</u></u></b>	<b><u><u>\$769,061</u></u></b>



A construction site for a recycled water expansion project. In the foreground, a worker in an orange shirt and hard hat stands on a concrete curb, holding a long, thick purple pipe. Another worker is visible in a trench further down the line. In the background, a large yellow Deere excavator is working on a pile of dirt, with two other workers nearby. The site is bordered by a grassy area with palm trees on the left and a clear blue sky above.

## Recycled Water Expansion Project Construction

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



**EL TORO WATER DISTRICT  
FIVE YEAR CAPITAL IMPROVEMENT PLAN  
F.Y. 2018/19 - 2022/2023**

ITEM #	DESCRIPTION	2018/19	2019/20	2020/21	2021/22	2022/23	TOTAL	WATER	SEWER
<u>Source of Supply / Storage Projects</u>									
1	R-2 Reservoir Interior Recoating (E/C)		262,500				262,500	262,500	
2	R-2 Reservoir Exterior Recoating (E/C)		80,000				80,000	80,000	
3	JRWSS Capital Budget	8,400	26,235	7,380	5,190	66,390	113,595	113,595	
4	Baker WTP Replacement Fund	52,795	52,795	52,795	52,795	52,795	263,975	263,975	
5	P-1 Impellers	36,000					36,000	36,000	
6	R-6 Chlorine & Ammonia Chemical Feed Pump Replacement					110,000	110,000	110,000	
<i>Total Source of Supply / Storage Projects</i>		97,195	421,530	60,175	57,985	229,185	866,070	866,070	0
<u>Pumping (Water) Projects</u>									
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			75,000	75,000	
3	Fence Repairs at Main P.R.	25,000					25,000	25,000	
4	VFD Replacement and Bypass SoftStarter 200 HP	17,000					17,000	17,000	
<i>Total Pumping (Water) Projects</i>		67,000	25,000	425,000	0	0	517,000	517,000	0
<u>Pumping (Water) Equipment</u>									
1	Cherry Booster Station Pump Replacement			100,000			100,000	100,000	
2	Shenandoah Booster Station Pump Replacement			100,000			100,000	100,000	
<i>Total Pumping (Water) Equipment</i>		0	0	200,000	0	0	200,000	200,000	0
<u>Pumping (Sanitation) Projects</u>									
1	Aliso Creek Lift Station Skid Pump and Piping	200,000					200,000		200,000
2	Sewer Stations PLC Upgrade to Control Logix	25,000	25,000	25,000			75,000		75,000
3	4920 Siphon Stabilization			150,000			150,000		150,000
4	8-inch Trailer Mounted Emergency Pump	85,000					85,000		85,000
<i>Total Pumping (Sanitation) Projects</i>		310,000	25,000	175,000	0	0	510,000	0	510,000
<u>Pumping (Sanitation) Equipment</u>									
1	Aliso Creek Emergency Generator 350 KW (Unit 215)				200,000		200,000		200,000
2	Delta Wall mount Gas detector	7,000					7,000		7,000
3	Aliso Creek Wall mount Gas detector	7,000					7,000		7,000
4	Aliso Creek Lift Station Wet Well Repairs/Recoating	15,000					15,000		15,000
<i>Total Pumping (Sanitation) Equipment</i>		29,000	0	0	200,000	0	229,000	0	229,000



**EL TORO WATER DISTRICT  
FIVE YEAR CAPITAL IMPROVEMENT PLAN  
F.Y. 2018/19 - 2022/2023**

ITEM #	DESCRIPTION	2018/19	2019/20	2020/21	2021/22	2022/23	TOTAL	WATER	SEWER
<u><i>Treatment (Sanitation) Projects</i></u>									
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	40,000					40,000		40,000
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	68,250					68,250		68,250
8	HACH (WIMS) Maint. Job Cal Database Management Software System			10,500			10,500		10,500
9	Retrofit HST Blowers Intake Air Filters with Industra Filters	12,000					12,000		12,000
10	Headworks CB, Remove Eff PS old MCC, Install WAC Level Inst.		20,000				20,000		20,000
11	Replace Aeration Basins D.O. Probe and TSS Solids Probe Sensors	18,500					18,500		18,500
<i>Total Treatment (Sanitation) Projects</i>		138,750	170,000	160,500	150,000	0	619,250	0	619,250
<u><i>Treatment (Sanitation) Equipment</i></u>									
1	Aeration Basin Diffusers			10,000			10,000		10,000
2	RAS Pumps Upgrade		30,000				30,000		30,000
3	Rototrainer Drum Replacement			30,000			30,000		30,000
4	Effluent Pump Station Pump Replacements			100,000			100,000		100,000
5	Kubota Utility Vehicle for the Plant	16,000					16,000		16,000
6	OOPS Emergency Generator Replacement		220,000				220,000		220,000
7	Aqua-Aerobic CMD Filter Sock Replacements for Filters #1 & #2		25,000				25,000		25,000
8	Main Emergency Generator Control Panel & Auxiliary Power Up-Grade			80,000			80,000		80,000
9	Biofilter's Odor Scrubber Foul Air Fan Replacements	50,000					50,000		50,000
<i>Total Treatment (Sanitation) Equipment</i>		66,000	275,000	220,000	0	0	561,000	0	561,000
<u><i>Laboratory Equipment</i></u>									
1	Autoclave Replacement	15,000					15,000		15,000
2	Incubators	10,000					10,000		10,000
3	Ion Chromatography			45,000			45,000		45,000
4	Undercounter Glassware Washer		8,000				8,000		8,000
<i>Total Laboratory Equipment</i>		25,000	8,000	45,000	0	0	78,000	0	78,000
<u><i>Outside Treatment (SOCWA)</i></u>									
1	SOCWA Capital Budget	614,831	806,752	482,377	782,019	800,000	3,485,979		3,485,979
<i>Total Treatment (SOCWA)</i>		614,831	806,752	482,377	782,019	800,000	3,485,979	0	3,485,979

**EL TORO WATER DISTRICT  
FIVE YEAR CAPITAL IMPROVEMENT PLAN  
F.Y. 2018/19 - 2022/2023**

ITEM #	DESCRIPTION	2018/19	2019/20	2020/21	2021/22	2022/23	TOTAL	WATER	SEWER
<u>Transmission &amp; Distribution Projects</u>									
1	AMI Implementation	200,000	200,000	200,000	200,000	200,000	1,000,000	1,000,000	
2	Moulton/El Toro Cathodic Protection Study	10,000					10,000	10,000	
3	Moulton/El Toro Cathodic Protection Repairs		50,000				50,000	50,000	
4	21" PCCP Valve Replacements and Pipeline Repair					150,000	150,000	150,000	
<i>Total Transmission &amp; Distribution (Water) Projects</i>		210,000	250,000	200,000	200,000	350,000	1,210,000	1,210,000	
<u>Collection Equipment</u>									
1	P332 Flexiprobe (Push Camera) Inspection System - PearPoint		20,000				20,000		20,000
2	P350 Flexiprobe (Mobile-Portable Camera) Inspection System - PearPoint			40,000			40,000		40,000
4	Spare Tractor & TV Camera-CUES		45,000				45,000		45,000
5	Lift Assembly for CCTV, Power, CPR	6,700					6,700		6,700
<i>Total Collection Equipment</i>		6,700	65,000	40,000	0	0	111,700	0	111,700
<u>Vehicles/Vehicle Equipment</u>									
1	Vehicle Replacement	50,000	75,000	100,000	100,000	50,000	375,000	187,500	187,500
2	Dump Truck (Unit 4)		140,000				140,000	70,000	70,000
3	Hydro Excavator				480,000		480,000	240,000	240,000
4	Warehouse Forklift				50,000		50,000	25,000	25,000
5	2001 F-450 Hydrant and Valve Truck (Unit 60)			70,000			70,000	70,000	
6	300-375KW Emergency Generator Trailer (Regulatory Compliance)	175,000					175,000	87,500	87,500
7	Vactor 2100 Combo Machine (Replace Unit 80)					500,000	500,000		500,000
8	Boom Truck (Diesel - Regulatory Compliance)					200,000	200,000	100,000	100,000
9	Forklift WRP (Diesel - Regulatory Compliance)			85,000			85,000		85,000
10	10-Wheel Dump Truck (Unit #50, Regulatory Compliance)					175,000	175,000	87,500	87,500
<i>Total Vehicles / Vehicle Equipment</i>		225,000	215,000	255,000	630,000	925,000	2,250,000	867,500	1,382,500
<u>Construction/Mechanical/Electical Equipment</u>									
1	Backhoe				145,000		145,000	72,500	72,500
2	Walk Behind Concrete Saw	25,500					25,500	12,750	12,750
<i>Total Construction Equipment</i>		25,500	0	0	145,000		170,500	85,250	85,250
<u>General Building Projects</u>									
1	Master Plan Update						0	0	0
2	Old Treatment Plant / Clear Well Demo	400,000					400,000	400,000	
3	Remove and Replace Damaged Insulation in Warehouse/Fleet Building	37,000					37,000	18,500	18,500
4	Main Office (Bob Hill) HVAC Replacement		17,000				17,000	8,500	8,500
5	WRP CL2 Room HVAC Replacement	14,000					14,000		14,000
6	Northline Lift Station HVAC Replacement	9,000					9,000		9,000
<i>Total General Building Projects</i>		460,000	17,000	0	0	0	477,000	427,000	50,000

**EL TORO WATER DISTRICT  
FIVE YEAR CAPITAL IMPROVEMENT PLAN  
F.Y. 2018/19 - 2022/2023**

ITEM #	DESCRIPTION	2018/19	2019/20	2020/21	2021/22	2022/23	TOTAL	WATER	SEWER
<u>Office Equipment/Furniture</u>									
1	Network Upgrade - 10GB				100,000		100,000	50,000	50,000
2	Firewall Replacement			30,000			30,000	15,000	15,000
4	Exchange Server Replacement		20,000				20,000	10,000	10,000
5	Replace Servers				50,000		50,000	25,000	25,000
	<i>Total Office Equipment / Furniture</i>	0	20,000	30,000	150,000	0	200,000	100,000	100,000
<u>Contingency</u>									
1	Contingency	125,024	30,718	14,948	3,996	15,815	190,501	95,251	95,251
2	Inflation @ 5%		71,000	92,000	81,000	80,000	324,000	162,000	162,000
	<i>Total Contingency</i>	125,024	101,718	106,948	84,996	95,815	514,501	257,251	257,251
 <u>Total Capital Budget</u>									
		2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000	4,530,071	7,469,930
 <u>Total Capital Projects</u>									
		1,960,288	1,766,141	1,556,526	1,232,502	1,427,093	7,942,550	3,148,695	4,793,854
	WATER	823,951	730,460	711,912	279,234	603,139	3,148,695		
	SEWER	1,136,337	1,035,682	844,614	953,268	823,954	4,793,854		
 <u>Total Capital Equipment</u>									
		439,712	633,859	843,474	1,167,498	972,908	4,057,451	1,381,375	2,676,075
	WATER	156,506	142,930	361,737	483,749	236,454	1,381,375		
	SEWER	283,206	490,930	481,737	683,749	736,454	2,676,075		
 <u>Total Capital Budget</u>									
		2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000	4,530,071	7,469,930
	WATER	980,457	873,389	1,073,649	762,983	839,593	4,530,071		
	SEWER	1,419,543	1,526,611	1,326,351	1,637,017	1,560,408	7,469,930		

Inflation Basis = Total Capital less SOCWA less Contingency less  
JRWSS

1,598,950 1,412,500 1,750,500 1,475,000 1,385,000

Inflation @ 5%

\$70,625 \$91,901 \$81,309 \$80,166

\$71,000 \$92,000 \$81,000 \$80,000

Capital Less SOCWA

Water

Sewer

Total

## Backhoe Equipment



**2018/2019 Capital Facility  
Replacement and Refurbishment Program**



## 2018/19 CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM

### Projects

#### Source of Supply / Storage Projects

1	JRWSS Capital Budget	8,400
2	Baker WTP Replacement Fund	52,795
3	P-1 Impellers	36,000
<i>Total Source of Supply</i>		97,195

#### Pumping (Water) Projects

4	Water Stations PLC Upgrade to Control Logix	25,000
5	Fence Repairs at Main P.R.	25,000
6	VFD Replacement and Bypass SoftStarter 200 HP	17,000
<i>Total Pumping (Water)</i>		67,000

#### Pumping (Sanitation) Projects

7	Aliso Creek Lift Station Skid Pump and Piping	200,000
8	Sewer Stations PLC Upgrade to Control Logix	25,000
9	8-inch Trailer Mounted Emergency Pump	85,000
<i>Total Pumping (Sanitation)</i>		310,000

#### Treatment (Sanitation) Projects

10	New Scum Station for Clarifiers #3 & #4	40,000
11	Reconstruct (West Side) Drainage Swayle at the Holding Pond	68,250
12	Retrofit HST Blowers Intake Air Filters with Industra Filters	12,000
13	Replace Aeration Basins D.O. Probe and TSS Solids Probe Sensors	18,500
<i>Total Treatment (Sanitation)</i>		138,750

#### Outside Treatment (SOCWA)

14	SOCWA Capital Budget	614,831
<i>Total Treatment (SOCWA)</i>		614,831

#### Transmission & Distribution Projects

15	AMR / AMI Implementation	200,000
16	Moulton/El Toro Cathodic Protection Study	10,000
<i>Total Mainline</i>		210,000

#### General Building Projects

17	Old Treatment Plant / Clear Well Demo	400,000
18	Remove and Replace Damaged Insulation in Warehouse/Fleet Buil	37,000
19	WRP CL2 Room HVAC Replacement	14,000
20	Northline Lift Station HVAC Replacement	9,000
<i>Total General Building</i>		460,000

#### Contingency

26	Contingency	62,512
<i>Total Contingency</i>		62,512

*Total Capital Projects* \$1,960,288

### Equipment

#### Pumping (Sanitation) Equipment

1	Delta Wall mount Gas detector	7,000
2	Aliso Creek Wall mount Gas detector	7,000
3	Aliso Creek Lift Station Wet Well Repairs/Recoating	15,000
<i>Total Pumping (Sanitation)</i>		29,000

#### Treatment (Sanitation) Equipment

4	Kubota Utility Vehicle for the Plant	16,000
5	Biofilter's Odor Scrubber Foul Air Fan Replacements	50,000
<i>Total Treatment (Sanitation)</i>		66,000

#### Laboratory Equipment

6	Autoclave Replacement	15,000
7	Incubators	10,000
<i>Total Laboratory Equipment</i>		25,000

#### Collection Equipment

8	Lift Assembly for CCTV, Power, CPR	6,700
<i>Total Collection Equipment</i>		6,700

#### Vehicles/Vehicle Equipment

9	Vehicle Replacement	50,000
10	300-375KW Emergency Generator Trailer (Regulatory Compliar	175,000
<i>Total Vehicles / Vehicle Equipment</i>		225,000

#### Construction/Mechanical/Electical Equipment

11	Walk Behind Concrete Saw	25,500
<i>Total Construction Equipment</i>		25,500

#### Contingency

17	Contingency	62,512
<i>Total Contingency</i>		62,512

*Total Capital Equipment* \$439,712

*Total Capital Projects* 1,960,288

*Total Capital Equipment* 439,712

*Total Capital Budget* 2,400,000

#### LEGEND

WATER

SEWER

BOTH

A photograph of a recycled water pump station. In the foreground, there are large, horizontal, purple-painted metal pipes with flanges and bolts. These pipes are supported by concrete bases. In the background, there are several vertical pump assemblies, each consisting of a purple base and a grey motor. To the left, there is a covered structure with a metal roof. To the right, there is a brick building. The sky is clear and blue.

## Recycled Water Pump Station

**2018/2019  
Capital Facility Project  
Descriptions > \$50,000**



**PROJECT TITLE: BAKER WTP REPLACEMENT FUND**



**CAPITAL PLAN  
CLASSIFICATION:**

**SOURCE OF SUPPLY / STORAGE PROJECTS  
(PROJECT #2)**

**PROJECT BASIS:**

Reliability

**DESCRIPTION:**

The Baker WTP Project Agreement established a Replacement Fund to provide for ongoing capital replacements of the Baker WTP equipment. The District pays a proportionate share of the Replacement Fund based on its owned capacity in the Baker Water Treatment Plant.

**PROJECT BUDGET:**

\$52,795

**BASIS OF  
COST ESTIMATE:**

Staff Estimate based a Baker WTP Budget.

---

**PROJECT TITLE: ALISO CREEK LIFT STATION SKID PUMP & PIPING**



**CAPITAL PLAN  
CLASSIFICATION:**

PUMPING (SANITATION) PROJECTS  
(PROJECT #7)

**LOCATION:**

ALISO CREEK LIFT STATION

**PROJECT BASIS:**

Sewer Pumping Reliability; Environmental Protection

**DESCRIPTION:**

The Aliso Creek Lift Station is one of the District's two largest sewer lift stations. The amount of flow at Aliso Creek, especially at peak hour flows, provides little response time in the event of a failure. It takes significant time to mobilize and connect the District's emergency pumping equipment. The proposed project will install a backup pump at the site that will allow more immediate restoration of pumping in the event of a failure of the primary pumping systems. The proposed project will mitigate the risk of a sewer spill at a station that is immediately adjacent to Aliso Creek.

**PROJECT BUDGET:**

\$200,000

**BASIS OF  
COST ESTIMATE:**

Staff estimate based on vendor quote.

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## PROJECT TITLE: 8-INCH TRAILER MOUNTED EMERGENCY PUMP



**CAPITAL PLAN  
CLASSIFICATION:**

PUMPING (SANITATION) PROJECTS  
(PROJECT #9)

**LOCATION:**

SYSTEM WIDE

**PROJECT BASIS:**

Sewer Pumping Reliability; Environmental Protection

**DESCRIPTION:**

The El Toro Water District operates a portable emergency diesel driven emergency pump to provide backup at sewer lift stations in the event of a power outage or failure of the pumping facilities. The emergency pump allows staff an opportunity to continue the pumping operation while the pump station failure or power outage is resolved. The ability to use the emergency pump helps reduce the potential for sewer spills. Due to a recent South Coast Air Quality Management District regulation, the District's existing portable emergency pump is no longer in compliance with existing regulations. Staff is proposing to purchase one new portable emergency pump that complies with current regulations and restores the District's emergency pumping capability.

**PROJECT BUDGET:**

\$ 85,000

**BASIS OF  
COST ESTIMATE:**

Staff Estimate based vendor quote.

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**PROJECT TITLE: RECONSTRUCT HOLDING POND DRAINAGE SWAYLE**



**CAPITAL PLAN  
CLASSIFICATION:**

TREATMENT (SANITATION) PROJECTS  
(PROJECT #11)

**LOCATION:**

WRP Holding Pond

**PROJECT BASIS:**

Reliability; Environmental Protection

**DESCRIPTION:**

The existing concrete drainage swayle on the west side of the WRP Holding Pond has suffered significant deterioration and cracking due to its age. The damaged swayle as well as the vegetation growing through the cracks impedes the proper flow of stormwater that the swayle is designed to convey.

The proposed project will reconstruct the swayle along with a small wall/curb to prevent stormwater from running into the Holding Pond.

**PROJECT BUDGET:**

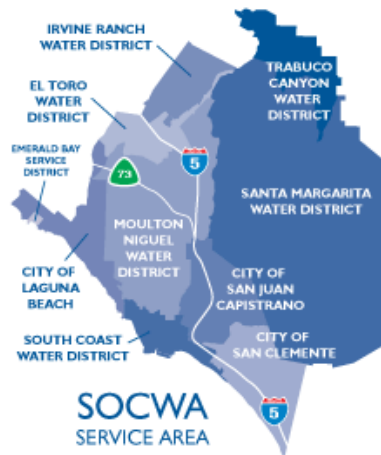
\$ 68,250

**BASIS OF  
COST ESTIMATE:**

Staff Estimate.

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**PROJECT TITLE: SOCWA**



**CAPITAL PLAN  
CLASSIFICATION:**

OUTSIDE TREATMENT - SOCWA  
(PROJECT #14)

**LOCATION:**

SOCWA

**PROJECT BASIS:**

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

**DESCRIPTION:**

The District's share of 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.

**PROJECT BUDGET:**

\$ 614,831

**BASIS OF  
COST ESTIMATE:**

SOCWA Budget

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**PROJECT TITLE:   AMR / AMI IMPLEMENTATION**



**CAPITAL PLAN  
CLASSIFICATION:**

TRANSMISSION & DISTRIBUTION PROJECTS  
(PROJECT #15)

**LOCATION:**

SYSTEM WIDE

**PROJECT BASIS:**

Efficiency, Revenue Stability, Customer Service, Planning

**DESCRIPTION:**

Advanced Metering Infrastructure (AMI) systems consist of small, low-power radio transmitters connected to individual water meters that send readings to a network of receivers throughout the system on a daily basis. AMI systems allow remote monitoring of billing meters and have the potential to reduce operating costs for meter reading and billing, and improve customer service. The direct benefits to the District and its customers could include:

- Highly accurate data collection which decreases the possibility of incorrect meter readings.
- Timely information on water usage and cost that allows staff to provide better customer service and plan necessary improvements in efficiency and performance.
- Timely identification of water leaks which reduces water waste and increased water bills due to leaks.
- Multiple meter reads daily, instead of once every month.
- Quicker and more efficient customer service.
- Online access to the Water Customer Portal so customers can monitor and manage their water usage.

The current project budget assumes a phased implementation of an AMI system over multiple years.

**PROJECT BUDGET:**

\$200,000

**BASIS OF  
COST ESTIMATE:**

Annual Budget Assuming Phased Implementation



**PROJECT TITLE: OLD TREATMENT PLANT / CLEAR WELL DEMO**



**CAPITAL PLAN  
CLASSIFICATION:**

GENERAL BUILDING PROJECTS  
(PROJECT #17)

**PROJECT BASIS:**

Reliability; Efficiency; Environmental Protection; Planning

**DESCRIPTION:**

Prior to the installation of the floating cover on the R-6 Reservoir the District operated a Treatment Plant. When the floating cover was installed in the mid-eighties the Treatment Plant was taken out of service. The structure of the metal building that housed the treatment facilities continues to deteriorate. It is an eyesore for the surrounding residential community and a potential liability as the structure ages and begins to fail. The District has been considering demolition of the old structure for quite some time. The continued deterioration of the building and potential liability have raised the priority of the project.

Staff is concurrently evaluating options for the site including the potential construction of a storage facility for existing District material and equipment.

**PROJECT BUDGET:**

\$400,000

**BASIS OF  
COST ESTIMATE:**

Staff estimate

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**PROJECT TITLE: EMERGENCY GENERATOR REPLACEMENT**



**CAPITAL PLAN CLASSIFICATION:** VEHICLES / VEHICLE EQUIPMENT (EQUIPMENT #10)

**PROJECT BASIS:** Regulatory Compliance; Reliability

**DESCRIPTION:** The El Toro Water District utilizes portable emergency generators to provide backup power to water and wastewater pumping facilities in the event of a power outage or electrical system failure. Several, but not all, of the District's water and sewer pumping facilities have stationary emergency generators. The portable emergency generators provide assurance that the District can continue to provide water and wastewater pumping during unplanned, or emergency power outages. Due to a recent South Coast Air Quality Management District regulation, the District's existing portable emergency generators are non-compliant. Staff is proposing to purchase one 470kVA, Tier 4 Final, portable emergency generator that will have the ability to run any of the water and/or wastewater pumping facilities in full operation. Purchasing this emergency generator will mitigate the District's vulnerability during any unplanned power outage.

**PROJECT BUDGET:** \$175,000

**BASIS OF COST ESTIMATE:** The cost estimate was by provided by a local generator manufacturer's representative.

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