

EL TORO WATER DISTRICT BOARD OF DIRECTORS 2017-2018

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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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 2017-18

- 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 2017-18

Revenue:

- POTABLE WATER SALES is based on the purchase of 7,300 acre-feet (af) of water and delivery of 7,000 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, 2017 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, 2017 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, 2017 and is supported by an independently prepared Cost of Study Report.
- RECYCLED WATER USAGE CHARGE will be increased effective July 1, 2017 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, 2017 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 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 2017/18 fiscal
 year are contemplated.
- Rate increases will comply with all applicable state constitutional and statutory mandates.

BUDGET ASSUMPTIONS

FISCAL YEAR 2017-18

Expenses:

- PURCHASED WATER costs are affected by the anticipated reduction 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 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, labor and depreciation remain relatively flat compared to 2016/17.

BUDGET ASSUMPTIONS

FISCAL YEAR 2017-18

CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM:

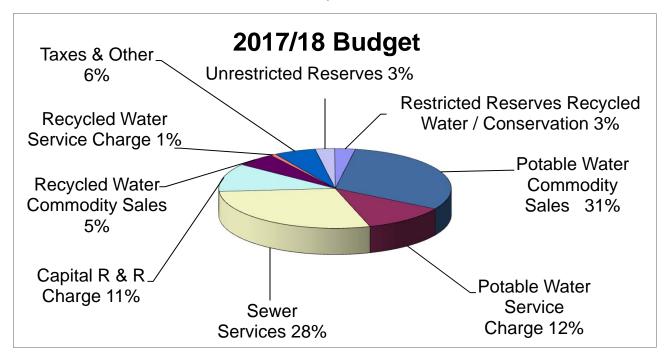
Five-Year Capital Replacement & Refurbishment Program

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 2017/18 total \$2,400,000. The 2017/18 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:

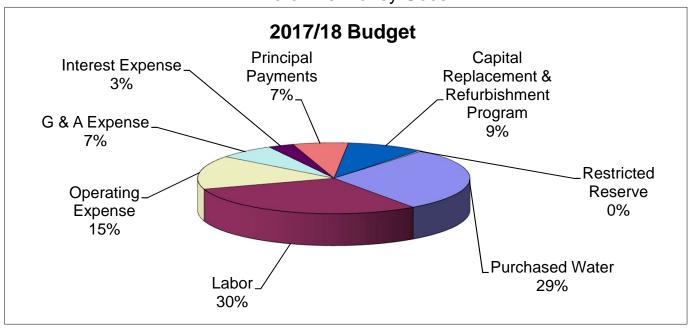
The District maintains three categories of reserves: (1) those legally required to be held as the result of contractual agreement (2) Board Mandated reserves (3) Board Restricted. Board Mandated reserves include (1) Capital Replacement & Refurbishment Program reserves for projects approved by the Board 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 2017-18 Budget includes a provision to utilize reserves to fund a portion of the five-year Capital Replacement & Refurbishment Plan.

Where The Money Comes From



Potable Water Commodity Sales	\$8,152,942
Potable Water Service Charge	3,073,290
Other Operating Revenue	55,000
Sewer Services	7,565,000
Capital R & R Charge	3,015,000
Recycled Water Commodity Sales	1,450,000
Recycled Water Service Charge	208,000
Taxes & Other	1,483,500
Unrestricted Reserves	711,379
Restricted Reserves Recycled Water / Conservation	661,913
Restricted Reserves	93,596
	\$26,469,620

Where The Money Goes



Purchased Water	\$7,691,757
Labor	7,902,953
Operating Expense	4,062,004
G & A Expense	1,775,950
Interest Expense	805,729
Principal Payments	1,737,631
Capital Replacement & Refurbishment Program	2,400,000
Restricted Reserve	93,596
	\$26,469,620



EL TORO WATER DISTRICT ORGANIZATION CHART 2017 - 2018

	Positions		Positions
Department		Department	
Administrative Services		Operations -	
General Manager	1	Operations Superintendent	1
Asst GM / District Engineer	1	Total	1
Human Resources Manager	1	Total	•
Compliance Program Coordinator	1	Transmission & Distribution Crew	,
Public Relations / EP Admin	1	Foreman	1
Exec.Assistant to BOD & GM	1	Crew Chief	1
Office Assistant	1	Maintenance Worker III	2
Administrative Assistant	1	Maintenance Worker II	1
	8		
Total	8	Maintenance Worker I	4
Information Occidence		Total	9
Information Systems	_ ,		
Information Technology Manager	1		
Total	1	Pumping Crew	
		Foreman	1
<u>Accounting</u>		Crew Chief	1
Manager Finance / Controller	1	Maintenance Worker III	5
Accountant / Sr Accountant	2	Maintenance Worker II	1
Supervisor Accounting	1	Total	8
Total	4		
		<u>Treatment Plant</u>	
Purchasing/Receiving		Chief Plant Operator	1
Purchasing Agent	1	Truck Driver	2
Total	1	Waste Water Operator III	3
	•	Waste Water Operator II	1
Customer Service - Office		Waste Water Operator I	1
C.S / Billing Supervisor	1	Lab Supervisor	1
C.S. Office Rep. II / Senior	2	Lab Technician III	1
Billing Clerk	1	Total	10
Total	4	Total	10
Total	4		
Customer Coming Field		Collections & Transmissions	
<u>Customer Service - Field</u> Crew Chief	1	Collections & Transmissions	1
	1	Industrial Waste Inspector	•
C.S. Field Rep. III	1	Crew Chief	1
C.S. Field Rep. I	2	Coll. Maintenance Worker III	1
Total	4	Coll. Maintenance Worker II	1
		Coll. Maintenance Worker I	1
<u>Engineering</u>		Total	5
Project Engineer	1		
Engineer Associate	1	<u>Automotive</u>	
Inspector	1	Senior Mechanic	11
Recycled Water Coordinator	1	Total	1
Total	4		
<u>Electrical</u>		<u>Total Positions</u>	<u>61</u>
Electrical Sys/SCADA Supv	1		
Total	1		

BUDGET COMPARISON - Income Statement

riscal rears Enality Julie 30	Budget	Budget	Budget
	2015/16	2016/17	2017/18
Operating Revenue	2010,10	2010/11	2011710
Water	\$11,996,805	\$12,129,505	\$12,036,741
Sewer	7,275,000	7,450,000	7,565,000
Capital Facilities Charge	3,000,000	3,000,000	3,015,000
Tertiary	1,171,873	1,638,014	1,658,000
Total Operating Rev	venue 23,443,678	24,217,519	24,274,741
Operating Expense			
General Operating Expense	12,395,356	12,837,346	14,216,039
Water Enterprise Operating Expense	8,868,272	8,688,057	8,680,085
Sewer Enterprise Operating Expense	2,430,431	2,274,422	2,353,090
Recycled Water Operating Expense	120,900	189,250	190,300
Total Operating Exp	pense 23,814,959	23,989,075	25,439,514
Operating In	come (371,281)	228,444	(1,164,773)
Non Operating Revenue	1,283,000	1,388,500	1,483,500
Non Operating Expense	(1,138,577)	(1,017,000)	(805,729)
Total Non Ope		371,500	677,771
Excess of Operating Revenues and Cash Flows Over Exper	se <u>\$ (226,858)</u>	\$ 599,944	\$ (487,002)
Capital Improvement Program Expenditures Depreciation & Amortization (Non-Cash) Debt Service Principle Payments Restricted Reserves	2,906,845	2,906,850	(2,400,000) 4,006,850 (1,737,631) (93,596)
Total Deficit			(711,379)

BUDGET COMPARISON - General Operations Expenses

	Budget 2015/16	Budget 2016/17	Budget 2017/18
General Operations Expense			
Labor	\$7,077,652	\$7,495,905	\$7,902,953
Operations Support	300,014	225,011	280,111
Vehicle Maintenance	344,845	258,180	250,175
General & Administrative	1,766,000	1,951,400	1,775,950
Depreciation & Amortization	2,906,845	2,906,850	4,006,850
Total General Operations Expense	\$12,395,356	\$12,837,346	\$14,216,039

EL TORO WATER DISTRICT LABOR / BENEFITS COMPARISON 2017-18

	Budget 2015/16	Budget 2016/17	Budget 2017/18	Change
Labor	\$5,089,587	\$5,385,234	\$5,663,492	\$278,258
Benefits	1,841,099	1,958,066	2,063,738	105,672
Workers Compensation and Unemployment Ins.	146,966	152,605	175,723	23,118
	\$7,077,652	\$7,495,905	\$7,902,953	\$407,048
Benefits as % of Labor	26.01%	26.12%	26.11%	

BUDGET COMPARISON - General & Adminstration

Fiscal Tears Eliulity Julie 30			
	Budget	Budget	Budget
	2015/16	2016/17	2017/18
Insurance & Damages	\$400,000	\$400,000	\$405,200
Director's Fees	100,000	90,000	93,000
Meetings & Conventions	55,000	50,000	61,000
Legal Fees	150,000	150,000	150,000
Public Relations	202,500	290,000	242,700
General Plant Maintenance	26,000	23,000	16,500
Utilities, Building Security, Janitorial	102,300	88,200	91,700
Auditing Fee	30,000	30,000	30,000
Dues and Memberships	80,000	80,000	75,000
Voice and Data Communications	70,000	80,000	83,000
Publications and Subscriptions	3,000	3,000	3,000
Printing and Reproduction	25,000	21,000	21,000
Equipment Rental	11,000	12,000	12,000
Other Employee Costs	25,000	28,000	15,000
Bank and Paycheck Services	48,000	48,000	54,000
Bad Debts	30,000	25,000	20,000
Employee Events, Education, and Service Awards	14,700	16,700	12,850
Temporary Help	25,000	40,000	11,500
Computer Supplies	165,000	135,000	95,000
Office Supplies	20,500	21,500	26,500
Property Taxes	6,000	5,500	5,500
Elections/Other	0	30,000	0
Outside Contractors and Consultants	166,500	253,000	231,000
Postage	10,500	31,500	20,500
Total General & Administrative	\$1,766,000	\$1,951,400	\$1,775,950
Depreciation & Amortization	\$2,906,845	\$2,906,850	\$4,006,850

BUDGET COMPARISON - Water Enterprise Operating Expenses

	Budget 2015/16	Budget 2016/17	Budget 2017/18
Water Enterprise Operations Expense			
Source of Supply	\$95,474	\$115,449	\$132,349
Purchased Water	7,997,953	7,760,674	7,691,757
Pumping Expense	263,406	306,571	290,971
Treatment Expense	39,141	45,571	41,866
Trans. & Dist. Expense	471,798	459,792	523,142
Customer Accounts Expense	500	0	0
Total Water Enterprise Operations Expense	\$8,868,272	\$8,688,057	\$8,680,085

BUDGET COMPARISON - Sewer Enterprise Operating Expenses

	Budget 2015/16	Budget 2016/17	Budget 2017/18
Sewer Enterprise Operations Expense			
SOCWA	\$920,000	\$904,376	\$974,100
Pumping Expense	346,022	339,548	377,832
Treatment Expense	898,009	725,598	699,658
Trans. & Dist. Expense	266,400	304,900	301,500
Total Sewer Enterprise Operations Expense	\$2,430,431	\$2,274,422	\$2,353,090

BUDGET COMPARISON - Recycled Water Operating Expenses

	Budget 2015/16	Budget 2016/17	Budget 2017/18
Recycled Water Operations Expense			
Tertiary Treatment Expense	120,900	189,250	190,300
Trans. & Dist. Expense	0	0	0
Total Recycled Water Operations Expense	\$120,900	\$189,250	\$190,300

BUDGET COMPARISON - Non-Operating Income & Expense

	Budget 2015/16	Budget 2016/17	Budget 2017/18
Tax Revenue	\$740,000	\$800,000	\$835,000
Interest Income	50,000	50,000	100,000
Other Revenue	493,000	538,500	548,500
Total Non-Operating Revenue	\$1,283,000	\$1,388,500	\$1,483,500
Interest Expense	\$1,138,577	\$1,017,000	\$805,729
Total Non-Operating Expense	\$1,138,577	\$1,017,000	\$805,729



ITEM #	DESCRIPTION	2017/18	2018/19	2019/20	2020/21	2021/22	TOTAL	WATER	SEWER
	Source of Supply / Storage Projects								
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	Replace R-6 Sodium Hypochlorite Tanks	210,000					210,000	210,000	
4	JRWSS Capital Budget	9,983	51,510	975	975	390	63,833	63,833	
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	
	Total Source of Supply / Storage Projects	219,983	430,010	975	110,975	390	762,333	762,333	0
									_
	Recycled Water Projects								
1	Recycled Water Phase II	10,000,000					10,000,000	10,000,000	
1a	Recycled Water Phase II Funding	(10,000,000)					(10,000,000)	(10,000,000)	
	Total Recycled Water Projects	0	0	0	0	0	0	0	0
	Pumping (Water) Projects								
1	P-3 New MCC with TS, Nema 3R Main & Generator Installation and Pump				400,000		400,000	400,000	
	Replacements				ŕ		ŕ	, in the second	
2	Water Stations PLC Upgrade to Control Logix		25,000	25,000	25,000		75,000	75,000	
3	Cathodic Rectifier and Enclosure Repalcement for MPR and Los Alisos Blvd	20,000					20,000	20,000	
	Total Pumping (Water) Projects	20,000	25,000	25,000	425,000	0	495,000	495,000	0
	Pumping (Water) Equipment								
1	Chlorine Injection Trailer Replacement	21,000					21,000	21,000	
2	Cherry Booster Station Pump Replacement				100,000		100,000	100,000	
3	Shenandoah Booster Station Pump Replacement				100,000		100,000	100,000	
4	P-3 New 50 HP A/C motor	8,000					8,000	8,000	
5	SCADA Server/ Client Replacement	10,000					10,000	10,000	
6	RMS Rectifier Spare	10,000					10,000	10,000	
	Total Pumping (Water) Equipment	49,000	0	0	200,000	0	249,000	249,000	0

ITEM#	DESCRIPTION	2017/18	2018/19	2019/20	2020/21	2021/22	TOTAL	WATER	SEWER
	Pumping (Sanitation) Projects								
1	Oso Improvement Projct	1,000,000					1,000,000		1,000,000
1a	Oso Improvement Projct Budget Carryover	(1,000,000)					(1,000,000)		(1,000,000)
2	Aliso Creek Lift Station Skid Pump and Piping			200,000			200,000		200,000
3	Also Creek Lift Station Spare Grinder	52,500					52,500		52,500
4	Sewer Stations PLC Upgrade to Control Logix		25,000	25,000	25,000		75,000		75,000
5	4920 Siphon Stabilization			150,000			150,000		150,000
6	Aliso Creek Lift Station MCC Rehab Labor	40,000					40,000		40,000
7	SCADA Server/ Client Replacement	10,000					10,000		10,000
	Total Pumping (Sanitation) Projects	102,500	25,000	375,000	25,000	0	527,500	0	527,500
	Pumping (Sanitation) Equipment								
1	4920 Generator	5,250					5,250		5,250
2	Northline Lift Station Spare Grinder	84,000					84,000		84,000
3	Aliso Creek Emergency Generator 350 KW (Unit 215)					200,000	200,000		200,000
4	Delta Wall mount Gas detector		7,000				7,000		7,000
5	Aliso Creek Wall mount Gas detector		7,000				7,000		7,000
6	Portable Gas detectors	13,000					13,000		13,000
	Total Pumping (Sanitation) Equipment	102,250	14,000	0	0	200,000	316,250	0	316,250
	<u>Treatment (Sanitation) Projects</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 Elecrical 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
10	Retrofit HST Blowers Intake Air Filters with Industra Filters		12,000				12,000		12,000
11	WRP Solids Handling Alternatives Analysis	50,000					50,000		50,000
12	Purchase & Install (2) New 8.0" ABB Flow Meters for Clarifiers #3 & #4	12,500					12,500		12,500
13	EB Building Redundant PLC Retrofit	41,150					41,150		41,150
14	New Control Panel for Barscreen	25,000					25,000		25,000
15	SCADA Server/ Client Replacement	10,000					10,000		10,000
16	Electrical Services: Headworks CB, Remove Eff. old MCC, Install WAC Level	Inst.		20,000			20,000		20,000
	Total Treatment (Sanitation) Projects	178,650	230,250	150,500	180,000	0	739,400	0	739,400

ITEM#	DESCRIPTION	2017/18	2018/19	2019/20	2020/21	2021/22	TOTAL	WATER	SEWER
	<u>Treatment (Sanitation) Equipment</u>								
1	Aeration Basin Diffusers				10,000		10,000		10,000
2	RAS Pumps Upgrade			30,000			30,000		30,000
3	OOPS Butterfly Valves						0		0
4	Rotostrainer Drum Replacement				30,000		30,000		30,000
5	Effluent Pump Station Pump Replacements			100,000			100,000		100,000
6	Kubota Utility Vehicle for the Plant		16,000				16,000		16,000
7	Portable Trailer Mounted 6 x 4 inch Pump with Suction & Discharge Hose	42,000					42,000		42,000
8	OOPS Emergency Generator Replacement			220,000			220,000		220,000
9	Purchase & Install (3) New Hach Self Cleaning Turbidity Meters for the TTP	9,500					9,500		9,500
10	Aqua-Aerobic CMD Filter Sock Replacements for Filters #1 & #2			25,000			25,000		25,000
11	Main Emergency Generator Control Panel & Auxiliary Power Up-Grade				80,000		80,000		80,000
12	SCADA/PLC Software License Upgrade (District Wide)	9,000					9,000		9,000
	Total Treatment (Sanitation) Equipment	60,500	16,000	375,000	120,000	0	571,500	0	571,500
	Laboratory Projects								
1	Redesign / Remodel Lab	50,000					50,000	25,000	25,000
	Total Laboratory Projects	50,000	0	0	0	0	50,000	25,000	25,000
	<u>Laboratory Equipment</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
	Total Laboratory Equipment	0	25,000	45,000	0	0	70,000	0	70,000
	Outside Treatment (SOCWA)								
1	SOCWA Capital Budget	302,207	455,927	351,061	482,377	782,019	2,373,591		2,373,591
	Total Treatment (SOCWA)	302,207	455,927	351,061	482,377	782,019	2,373,591	0	2,373,591
	Transmission & Distribution Projects								
1	AMI Implementation	200,000	200,000	200,000	200,000	200,000	1,000,000	1,000,000	
	Total Transmission & Distribution (Water) Projects	200,000	200,000	200,000	200,000	200,000	1,000,000	1,000,000	
	Collection Equipment								
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
3	24" Smart Covers Manhole Covers		18,500	•	18,500		37,000		37,000
4	Backup Tractor & TV Camera-CUES		*	45,000	,		45,000		45,000
	Total Collection Equipment	0	38,500	85,000	18,500	0	142,000	0	142,000

ITEM#	DESCRIPTION	2017/18	2018/19	2019/20	2020/21	2021/22	TOTAL	WATER	SEWER
	Vehicles/Vehicle Equipment	100.000	55 000	55 000	100.000	100.000	450.000	227.000	225 000
	Vehicle Replacement	100,000	75,000	75,000	100,000	100,000	450,000	225,000	225,000
	Dump Truck		157,500				157,500	78,750	78,750
	Hydro Excavator				=	480,000	480,000	240,000	240,000
4	Warehouse Forklift				50,000		50,000	25,000	25,000
	2001 F-450 Hydrant and Valve Truck (Unit 60)			70,000			70,000	70,000	
6	300-375KW Emergency Generator Trailer (Regulatory Compliance)	210,000					210,000	105,000	105,000
7	Vactor 2100 Combo Machine (Replace Unit 80)					500,000	500,000		500,000
	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
	Total Vehicles / Vehicle Equipment	310,000	232,500	430,000	150,000	1,080,000	2,202,500	843,750	1,358,750
	Construction/Mechanical/Electical Equipment								
1	Backhoe	168,000					168,000	84,000	84,000
2	Hydraulic Pipe Cutter	8,000					8,000	8,000	
3	Walk Behind Concrete Saw		15,000				15,000	7,500	7,500
	Total Consruction Equipment	176,000	15,000	0	0	0	191,000	99,500	91,500
	General Building Projects								
	Master Plan Update	350,000					350,000	175,000	175,000
2	Old Treatment Plant / Clear Well Demo		400,000				400,000	400,000	
3	A/C Pavement Repair and Maintenance at Los Alisos Facility	100,000					100,000	50,000	50,000
4	Roof Coating and Repairs at WRP Laboratory and Blower Building	25,000					25,000		25,000
5	Remove and Replace Damaged Insulation in Warehouse/Fleet Building		37,000				37,000	18,500	18,500
6	Preparation and Painting of Roll Up Doors and Jams on Warehouse Building	25,000					25,000	12,500	12,500
7	FAO-EOC HVAC Replacement	18,000					18,000	9,000	9,000
8	Main Office (H.R. Unit) HVAC Replacement	16,000					16,000	8,000	8,000
9	Customer Service Area HVAC Replacement	16,000					16,000	8,000	8,000
10	Main Office (Bob Hill) HVAC Replacement			17,000			17,000	8,500	8,500
11	WRP Main Offices HVAC Replacement	17,000		•			17,000		17,000
	WRP CL2 Room HVAC Replacement	,	14,000				14,000		14,000
	MPR HVAC Replacement	8,000	,				8,000	8,000	
	Northline Lift Station HVAC Replacement	,	9,000				9,000		9,000
	Total General Building Projects	575,000	460,000	17,000	0	0	1,052,000	697,500	354,500

ITEM#	ŧ	DESCRIPTION		2017/18	2018/19	2019/20	2020/21	2021/22	TOTAL	WATER	SEWER
	Office Equipment/Furniture										
1	Data Storage Device			50,000					50,000	25,000	25,000
		Total Office Equip	oment / Furniture	50,000	0	0	0	0	50,000	25,000	25,000
	Contingency										
1	Contingency			3,910	152,813	260,464	413,148	62,591	892,926	446,463	446,463
2	Inflation @ 5%				80,000	85,000	75,000	75,000	315,000	157,500	157,500
		7	Total Contingency	3,910	232,813	345,464	488,148	137,591	1,207,926	603,963	603,963
		Total Capital Budget		2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000	4,801,046	7,198,954
		-	=						<u> </u>		
	<u>,</u>	Total Capital Projects	_	1,650,295	1,942,594	1,292,268	1,667,426	1,051,205	7,603,787	3,281,815	4,321,973
			-						_		
		WATER		736,461	1,131,713	320,841	858,012	234,788	3,281,815		
		SEWER		913,835	810,880	971,427	809,414	816,417	4,321,973		
	_										
	<u>Te</u>	otal Capital Equipment	=	749,705	457,407	1,107,732	732,574	1,348,796	4,396,213	1,519,232	2,876,982
					404.0==	***					
		WATER		321,978	181,953	293,866	397,037	324,398	1,519,232		
		SEWER		427,728	275,453	813,866	335,537	1,024,398	2,876,982		
		Total Capital Budget		2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000	4,801,046	7,198,954
		Iour Capuur Dauger	=	2,700,000	2,700,000	2,700,000	2,700,000	2,700,000	12,000,000	4,001,040	7,170,734
		WATER		1,058,438	1,313,667	614,707	1,255,049	559,186	4,801,046		
		SEWER		1,341,562	1,086,334	1,785,293	1,144,951	1,840,815	7,198,954		
		SE ITEM		_,0 .1,002	-,000,007	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,,	2,010,010	,,1,0,,,,,		

Water Recycling Plant Chemical Feed Station



2017/18 CAPITAL REPLACEMENT & REFURBISHMENT PROGRAM

New Scientific Station Projects 1,000,000 1,000,	<u>Projects</u>		<u>Equipment</u>	
RWSS Capital Rudget	Source of Supply / Storage Projects		Pumning (Water) Fauinment	
2 3 3 3 3 3 3 3 3 4 3 3		210 000		21 000
Second Maint Projects 1,000,000 1,	·	ŕ	· ·	
Recycled Water Phase II Funding	1 0			
Recycled Water Phase II	1 они зоигсе ој зиррку	219,965	·	,
Recycled Water Phase II 10,000,000 10,	Recycled Water Projects		•	49,000
Recycled Water Phase II Funding		10,000,000		
Total Recycled Water	•	, ,	Pumping (Sanitation) Equipment	
Section Projects Section Sec	•		<u></u>	
Particle (Nation) Projects			5 4920 Generator	5,250
A carbodic Rectiffice and Enclosure Repalement for MPR & Los Alisos	Pumping (Water) Projects		and the second s	
Total Pumping (Water)		20.000	· ·	,
Treatment Sanitation Projects 1,000,000 1,00	•		· · · · · · · · · · · · · · · · · · ·	
Pumping Sanitation Projects 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000	Total Lamping (Water)	20,000		
1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000,000 1,000 1,000 1,000,000 1,000	Pumping (Sanitation) Projects		Total Lamping (Santation)	134,730
No. Improvement Projet Budget Carryover		1 000 000	To a state and (Completely and Empley and	
Scand Server Client Replacement	1 "		Treatment (Sanuation) Equipment	
SADA Server (Client Replacement 10,000 Total Pumping (Sanitation) 50,000 Treatment (Sanitation) Projects Sanitation Projects Vehicles Vehicle Equipment (Sanitation) Projects Vehicle Replacement (Sanitation) Projects Vehicle Replacement Sanitation Projects Vehicle Replacement Sanitation Projects Vehicle Replacement Sanitation Projects Sanitation				
Total Pamping (Sanitation)		ŕ	•	42,000
Treatment (Sanitation) Projects South Station for Chariffers #3 & #4 40,000 12 Vehicle Replacement 10,000 13 30-375KW Emergency Generator Trailer (Regulatory Compliance) 210,000	*			9,500
New Country (Sanitation Projects 10,000 10 10 10 10 10 10	Total Pumping (Sanitation)	50,000	11 SCADA/PLC Software License Upgrade (District Wide)	9,000
New Scam Station for Clariffers #3 & #4 40,000 Vehicles Vehicle Equipment 100,000 100,			Total Treatment (Sanitation)	60,500
WRP Solids Handling Alternatives Analysis 10,000 10 Install (2) New 8.0" ABB Flow Meters for Clarifiers #3 & #4 12,500 12 Stock War Solids Water for Clarifiers #3 & #4 12,500 12 Stock Water for Clarifiers #3 & #4 12,500 13 30-375KW Emergency Generator Trailer (Regulatory Compliance) 210,000 14 30-375KW Emergency Generator Trailer (Regulatory Compliance) 210,000 30-375KW Emergency Generator Trailer (Regulatory Compliance) 310,000 30-375KW Emergency Generator Trailer (Regulatory Compliance 310,000 30-375KW Eme	Treatment (Sanitation) Projects			
Install (2) New 8.0" ABB Flow Meters for Clariffers #3 8. #4 12,500 11 E B Building Redundant PLC Retrofit 41,150 7 total Vehicles / Vehicle Equipment 310,000 310	8 New Scum Station for Clarifiers #3 & #4	40,000	Vehicles/Vehicle Equipment	
B Building Redundant PLC Retrofit 41,150 25,000 10 10 10 10 10 10 10	9 WRP Solids Handling Alternatives Analysis	50,000	12 Vehicle Replacement	100,000
New Control Panel for Barscreen	10 Install (2) New 8.0" ABB Flow Meters for Clarifiers #3 & #4	12,500	13 300-375KW Emergency Generator Trailer (Regulatory Compliance)	210,000
New Control Panel for Barscreen	11 EB Building Redundant PLC Retrofit	41,150		310,000
Second Server Client Replacement	12 New Control Panel for Barscreen	25,000		<u> </u>
	13 SCADA Server/ Client Replacement		Construction/Mechanical/Electical Equipment	
Redesign Remodel Lab So,000				168,000
Laboratory Projects South Redesign Remodel Lab South				
	Laboratory Projects		• •	176,000
Total Treatment (SOCWA) So,000 Office Equipment/Furniture So,000 So,000 Office Equipment (Furniture So,000	14 Redesign / Remodel Lab	50,000		
Dutside Treatment (SOCWA)			Office Equipment/Furniture	
Note Part				50,000
15 SOCWA Capital Budget 302,207 Total Treatment (SOCWA) 302,207 Total Treatment (SOCWA) 302,207 Total Smission & Distribution Projects Total Mainline 200,000 Total Mainline 200,000 Total Capital Equipment \$802,205 \$1,595 \$2,000 Total Capital Equipment \$802,205 \$1,597,795 \$1,59	Outside Treatment (SOCWA)			50,000
Total Treatment (SOCWA) 302,207		302.207		,
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Transmission & Distribution Projects 200,000				1.955
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24 WRP Main Offices HVAC Replacement 17,000 MPR HVAC Replacement 8,000 Total General Building 575,000 Contingency 26 Contingency 1,955 MATER SEWER BOTH BOTH			T.(10, 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
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Total General Building 575,000 Contingency 26 Contingency 1,955 Total Contingency 1,955 BOTH				
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Total Contingency 1,955 SEWER BOTH				
вотн				
	Total Contingency	1,955		
Total Capital Projects \$1,597,795		A4 F== :-		ВОТН
	ı otal Capital Projects =	\$1,597,795		



PROJECT TITLE: REPLACE R-6 RESERVOIR SODIUM HYPOCHLORITE TANKS





CAPITAL PLAN SOURCE OF SUPPLY / STORAGE PROJECTS

CLASSIFICATION: (PROJECT #1)

LOCATION: R-6 RESERVOIR

PROJECT BASIS: End of Useful Life; Reliability; Safety; Environmental Protection

DESCRIPTION: The project replaces the two existing 5,000 gallon Sodium

Hypochlorite Storage Tanks at the R-6 Reservoir Chloramination

Facility.

The existing Sodium Hypochlorite Storage Tanks are nearly 20 years old and are beginning to exhibit signs of fatigue. Due to an existing flange leak, the manufacturer's representative performed an internal inspection and evaluation. The existing flange leak is unrepairable and the recommendation from the manufacturer was to replace the tanks due to signs of internal wear. The expected

life for these tanks is 15 years.

PROJECT BUDGET: \$210,000

BASIS OF

COST ESTIMATE: Staff Estimate based a similar project at the WRP.

PROJECT TITLE: PHASE II RECYCLED WATER DISTRIBUTION SYSTEM EXPANSION PROJECT





CAPITAL PLAN RECYCLED WATER

CLASSIFICATION: (PROJECT #3)

LOCATION: SYSTEM WIDE

PROJECT BASIS: Water Supply Reliability

DESCRIPTION: The SRF funding agreement for the Phase II Recycled Water

Distribution System Expansion Project was complete in early 2017. The project budget contemplates the construction phase of

the project.

PROJECT BUDGET: \$10,000,000

BASIS OF

COST ESTIMATE: Staff project cost estimate based on design engineering

construction cost estimates.

PROJECT TITLE: OSO LIFT STATION IMPROVEMENT PROJECT





CAPITAL PLAN PUMPING - SEWER **CLASSIFICATION:** (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 The current configuration utilizes an extended inefficient. driveshaft between the motors on the upper level and the pumps on The lower level is extremely small making the lower level. 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. Engineering design is currently underway. The 2017/18 budget will carry over the 2016/17 budget to complete both design and

construction of the project.

PROJECT BUDGET: \$ 1,000,000 (Carryover from 2016/17)

BASIS OF

COST ESTIMATE: Staff Estimate.

PROJECT TITLE: SOCWA



CAPITAL PLAN OUTSIDE TREATMENT - SOCWA

CLASSIFICATION: (PROJECT #15)

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: \$ 302,207

BASIS OF

COST ESTIMATE: SOCWA Budget

PROJECT TITLE: AMR / AMI IMPLEMENTATION





CAPITAL PLAN TRANSMISSION & DISTRIBUTION PROJECTS

CLASSIFICATION: (PROJECT #16)

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: MASTER PLAN UPDATE

CAPITAL PLAN
GENERAL PROJECTS
(PROJECTS #15)

CLASSIFICATION: (PROJECT #17)

PROJECT BASIS: Reliability; Efficiency; Environmental Protection; Planning

DESCRIPTION: The District last performed a Water and Wastewater Master Plan and

Hydraulic Study in 2004. Since that time water and sewer demands have changed significantly. The District is facing new water quality challenges due to decreasing demands associated with conservation and recycled water conversions. The project will reconstruct the water and wastewater hydraulic models utilizing current modeling technology and

the District's GIS and mapping data.

This project is intended to evaluate the District's water distribution and sewer collection systems in order to accomplish the following objectives:

 Develop a detailed hydraulic model of the water and sewer systems that can be used in the course of this study and then used in the future by District staff for ongoing analysis and maintenance of the District water and sewer systems;

- Identify areas of improvement necessary to accommodate current and future demands;
- Evaluate infrastructure replacement needs to assist in long range financial planning;
- Identify projects by which the District can maintain its current level of service while reducing cost or projects which can be justified by an economic analysis depicting a reasonable payback period;
- Identify any deficiencies or maintenance problems in the District's water and sewer systems and make appropriate recommendations for improvement;
- Evaluate means by which to ensure water quality in both the District's water distribution system and storage reservoirs.

PROJECT BUDGET: \$350,000

BASIS OF

COST ESTIMATE: Staff estimate

PROJECT TITLE: MAIN/FIELD OFFICE ASPHALT PAVEMENT REPAIR





CAPITAL PLAN GENERAL BUILDING PROJECTS

CLASSIFICATION: (PROJECTS #18)

PROJECT BASIS: End of Useful Life;

DESCRIPTION: The scope of this project is to remove and replace asphalt in areas

with significant damage, crack seal all large cracks and provide a slurry seal coat throughout the maintenance field office area. Completing this work will extend the useful life of the existing pavement and delay the need for complete pavement rehabilitation. Pavement that is not properly maintained can quickly deteriorate, due to moisture getting below the asphalt and into the sub-base, causing significant damage. In addition, areas with "alligator cracking" will continue to worsen if left unrepaired. A full pavement rehabilitation project would be significantly more costly. Completing this maintenance project at this time will greatly

extend the useful life of the existing asphalt pavement.

PROJECT BUDGET: \$100,000

BASIS OF

COST ESTIMATE: Staff estimate based on contractor quotes.

PROJECT TITLE: ALISO CREEK LIFT STATION SPARE GRINDER





CAPITAL PLAN PUMPING (SANITATION) EQUIPMENT

CLASSIFICATION: (EQUIPMENT #6)

PROJECT BASIS: Efficiency; Environmental Protection; Reliability

DESCRIPTION: Grinders are an essential part of the wastewater pumping

operation, as they grind rags and other debris entering the pumping facility through the collection system. Grinding the rags and debris helps prevent these items from becoming obstructions in the suction side of the pumps, resulting in pump failure. The Aliso Creek Lift Station is equipped with two in-line grinders. These grinders are approximately 7 years old and have not been serviced or rebuilt. The investment in a spare grinder will allow for a rotational process to service the existing grinders, which can take up to a month or longer to complete. The spare grinder will also provide a backup grinder in the event of an unforeseen failure. Running the pumps without the grinders can lead to extensive pump damage, as well as frequent pump failures due to debris

obstructions in the suction side of the pump.

PROJECT BUDGET: \$52,500

BASIS OF

COST ESTIMATE: Staff estimate based on manufacturer quotes.

PROJECT TITLE: NORTHLINE LIFT STATION SPARE GRINDER





CAPITAL PLAN PUMPING (SANITATION) EQUIPMENT

CLASSIFICATION: (EQUIPMENT #7)

PROJECT BASIS: Efficiency; Environmental Protection; Reliability

DESCRIPTION: Grinders are an essential part of the wastewater pumping

operation, as they grind rags and other debris entering the pumping facility through the collection system. Grinding the rags and debris helps prevent these items from becoming obstructions in the suction side of the pumps, resulting in pump failure. The Northline Lift Station has one channel grinder, upstream of the wet well, protecting three pumps. The channel grinder is approximately 5 years old and has been rebuilt on two occasions. Each of the rebuilds took approximately 2 months to complete. The investment in a spare grinder will provide increased reliability and allow for a rotational process to service the existing grinder. The spare grinder will also provide a backup grinder in the event of an unforeseen failure. Running the pumps without the grinder can lead to extensive pump damage, as well frequent pump failures due

to debris in the suction side of the pumps.

PROJECT BUDGET: \$84,000

BASIS OF

COST ESTIMATE: Staff estimate based on manufacturer quotes.

PROJECT TITLE: VEHICLE REPLACEMENTS





CAPITAL PLAN VEHICLES / VEHICLE EQUIPMENT

CLASSIFICATION: (EQUIPMENT #12)

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: EMERGENCY GENERATOR REPLACEMENT





CAPITAL PLAN VEHICLES / VEHICLE EQUIPMENT

CLASSIFICATION: (EQUIPMENT #13)

PROJECT BASIS: Regulatory Compliance

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 Districts 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: \$210,000

BASIS OF

COST ESTIMATE: The cost estimate was by provided by a local generator

manufacturer's representative.

PROJECT TITLE: BACKHOE REPLACEMENT





CAPITAL PLAN CONSTRUCTION EQUIPMENT

CLASSIFICATION: (EQUIPMENT #14)

PROJECT BASIS: End of Useful Life; Efficiency; Safety

DESCRIPTION: The District utilizes backhoes to perform excavations for water and

wastewater system underground repairs. The backhoes are also utilized to lift and set heavier items, such as system gate valves during valve replacements and steel street plates to cover excavations. The backhoe being proposed for replacement is over 29 years old and has reached the end of its useful life. Replacement mechanical parts are not readily available, and on occasion have been found to be obsolete. The hydraulic lines are currently worn and cracked and need to be replaced. It is not recommended to perform costly repairs to this obsolete equipment.

PROJECT BUDGET: \$168,000

BASIS OF

COST ESTIMATE: The cost estimate was by provided by a local manufacturer's

representative.