# AGENDA FOR A WORKSHOP MEETING OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT WEDNESDAY, MAY 24, 2017, AT 5:00 P.M. AT THE DISTRICT OFFICE 201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

CALL TO ORDER – PRESIDENT ELITHARP

PLEDGE OF ALLEGIANCE

**ROLL CALL** 

In the case of an emergency, items may be added to the Agenda by a majority vote of the Board of Directors. An emergency is defined as a work stoppage; a crippling disaster; or other activity which severely imperils public health, safety, or both. Also, items which arise after the posting of the Agenda may be added by a two-thirds vote of the Board of Directors.

ADOPT AGENDA FOR THE WORKSHOP MEETING OF MAY 24, 2017

#### **PUBLIC COMMENT**

Persons wishing to address a matter not on the Agenda may be heard at this time; however, no action will be taken until the matter is placed on a future agenda in accordance with Board policy. Public comments are limited to three minutes. A Request to Speak form is required to be submitted to the Executive Secretary prior to the start of the meeting, if possible. Public comment should start by stating name, address and topic. The Board is not permitted during this time to enter into a dialogue with the speaker.

#### ITEMS FOR DISCUSSION

1. BUDGET AND RATES REVIEW AND UPDATE (pp. 3-121)

\*\*\*\*\*END OF DISCUSSION ITEMS\*\*\*\*\*

#### **OTHER BUSINESS**

\*\*\*\*\*END OF OTHER BUSINESS\*\*\*\*\*

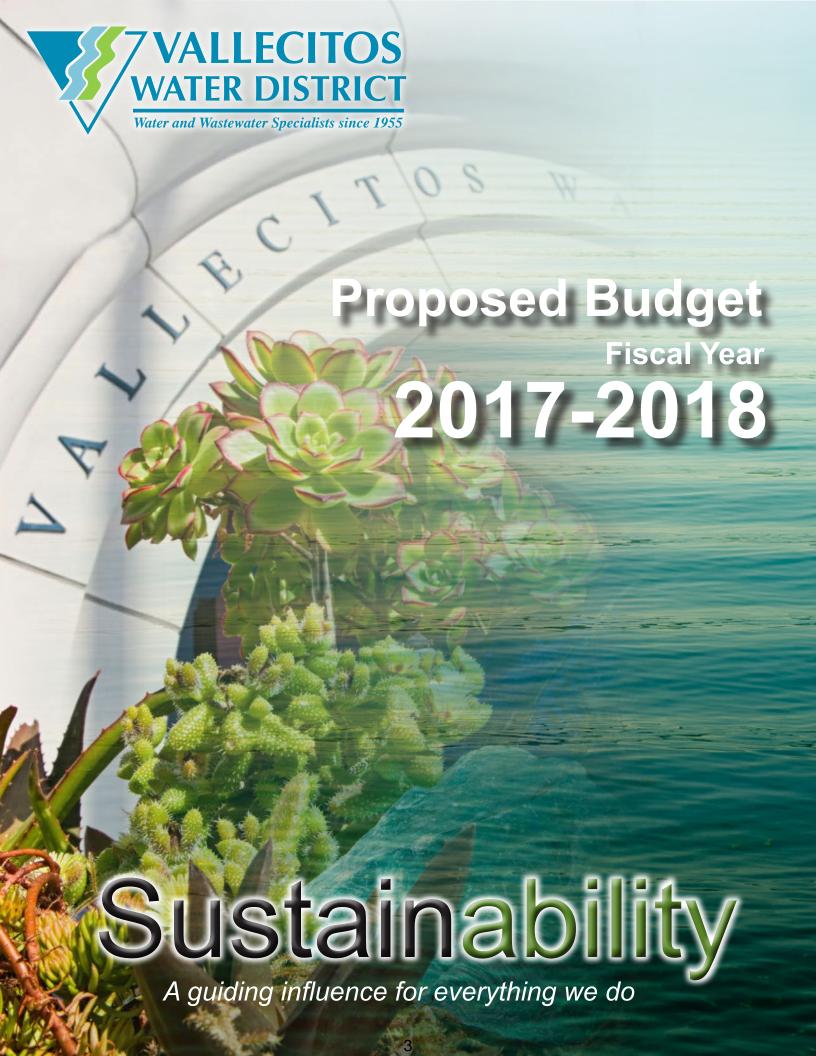
\*\*\*\*\*END OF AGENDA\*\*\*\*\*

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the Executive Secretary at 760.744.0460 ext. 264 at least 48 hours prior to the meeting.

Audio and video recordings of all Board meetings are available to the public at the District website <a href="https://www.vwd.org">www.vwd.org</a>

# AFFIDAVIT OF POSTING

caused the posting of this Agenda in th	the Vallecitos Water District, hereby certify that I ne outside display case at the District office, 201
Vallecitos de Oro, San Marcos, California	by 5.00 p.m., Thursday, May 16, 2017.
	Diane Posvar



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#### **Our Mission**

#### Water and wastewater specialists providing exceptional and sustainable services.

This mission of exceptional and sustainable services is reflected in this budget and in the attitudes and commitment of the Vallecitos Water District staff and Board Members.











Clockwise: James Hernandez, Craig Elitharp (center), Hal Martin, Betty Evans and Mike Sannella

Board of Directors
Craig Elitharp, President
James Hernandez, Vice President
Hal Martin
Betty Evans
Mike Sannella

Vallecitos Water District is a public agency organized in 1955, proudly serving the City of San Marcos, portions of Escondido, Carlsbad and the surrounding unincorporated areas.

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201 Vallecitos de Oro · San Marcos, California · 92069-1453 · (760) 744-0460

Date: May 24, 2017

To: Honorable Board of Directors

Regarding: Fiscal Year 2017/18 Proposed Budget

Enclosed is the **Proposed Budget** for Fiscal Year 2017/18. The budget totals \$75.2 million compared to \$68.5 million for the 2016/17 budget and is comprised of \$53.2 million of operational expenses (a 7.2% increase from the \$49.6 million in 2016/17 operating budget) and a commitment of \$15.8 million for capital items and projects (\$13.3 million in 2016/17).

The operational increase of \$3.6 million is attributable to a projected \$2.5 million increase in cost of water purchases as the District moves further from the drought and purchases more water. The remaining \$1.1 million is mainly from increases resulting from transmission and distribution (main line breaks), general and administrative costs and information technology. In addition, \$7.4 million from operations is being set aside for capital replacement.

Rate increases contained in this budget for Water, Sewer and Ready-to-Serve are part of an ongoing cost of service study. The rates are to recover the costs of service and meet strategic and financial objectives of the budget.

#### Long-range Financial Planning

As with recent budgets, this budget includes a 10-year projection of operating costs and capital needs in order to plan for a sound future in water supply and reliability. Fiscal sustainably is absolutely a necessary factor in the equation for future reliability and is a guiding influence in everything the District does.

All District employees are responsible to consider costs involved with activities and try to work as efficiently and effectively as possible. Consideration of controlling costs translates into the future viability of the District. Some of these considerations are: rate affordability; maintaining reserves, assess adequacy to cover debt obligations now and in the future; and a credit worthy cash position. We plan to meet our capital needs and maintain a strong financial position without incurring any new debt.

#### FINANCIAL HIGHLIGHTS

The following narratives are financial highlights and comparisons of this budget, FY 2017/18, and last budget; FY 2016/17.

#### Water Operations (pages 3-14)

Water purchases are projected to total 14,576 acre feet with sales of 13,760 acre feet for 2017/18. The water operating budget increased by \$0.6 million from last year's budget, excluding water costs. With water costs, the budget increased \$3.1 million, or 8.4%.

Board of Directors May 24, 2017 Page Two

#### Wastewater Operations (pages 15-24)

Wastewater operating costs increased \$0.5 million, or 3.9%, over last year's budget due to increases in treatment, personnel, information technology, and outside services. Reclaimed water costs are recovered by contractual sales to the Carlsbad Municipal Water District and Olivenhain Municipal Water District.

#### Personnel (pages 25-31)

Fiscal year 2017/18 does not add any new positions. Two positions were reclassified and four are eliminated. Salaries and benefits for 2017/18 increased from the last budget year by \$77 thousand or 0.5% due to increasing costs of retirement benefits and longevity of existing employees. Management will continue to scrutinize the need for all positions and only fill positions if absolutely necessary.

#### Capital Budget (pages 33-95)

Capital projects are summarized on the Comprehensive Project List found on page 34. Details of each project, including timing of phases and spending, are presented on pages 36 through 95, followed by requests for easements, vehicles and equipment of \$818,000. Of the \$122.4 million capital budget, \$57.4 million are new requests and \$22.9 million are for future projects included for planning purposes. The remainder is from projects carried over from the prior year resulting in a capital budget increase of \$3.4 million.

#### Reserve Budget and Projection (pages 98-104)

The Reserve Budget includes revenues and transfers from various sources and summarizes appropriations and expected cash outflows for debt service and capital projects. Page 99 displays the 2017/18 reserve budget for consideration. Page 100 forward display detailed reserve projections for four subsequent years followed by a summary projection for the five years thereafter.

As a final note, our projections are based on trends, anticipated large one-time expenditures, economic factors within our industry, and global factors influencing our operations. Obviously, a good amount of forethought and monitoring at both the Board and staff levels has been required to produce such a realistic and useable financial guide.

Respectfully submitted,

Glenn Pruim, General Manager

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#### **BUDGETARY CONSIDERATIONS**

#### Mission Statement

Water and wastewater specialists providing exceptional and sustainable services.

The budget reflects the mission statement

#### **Budgetary Approach**

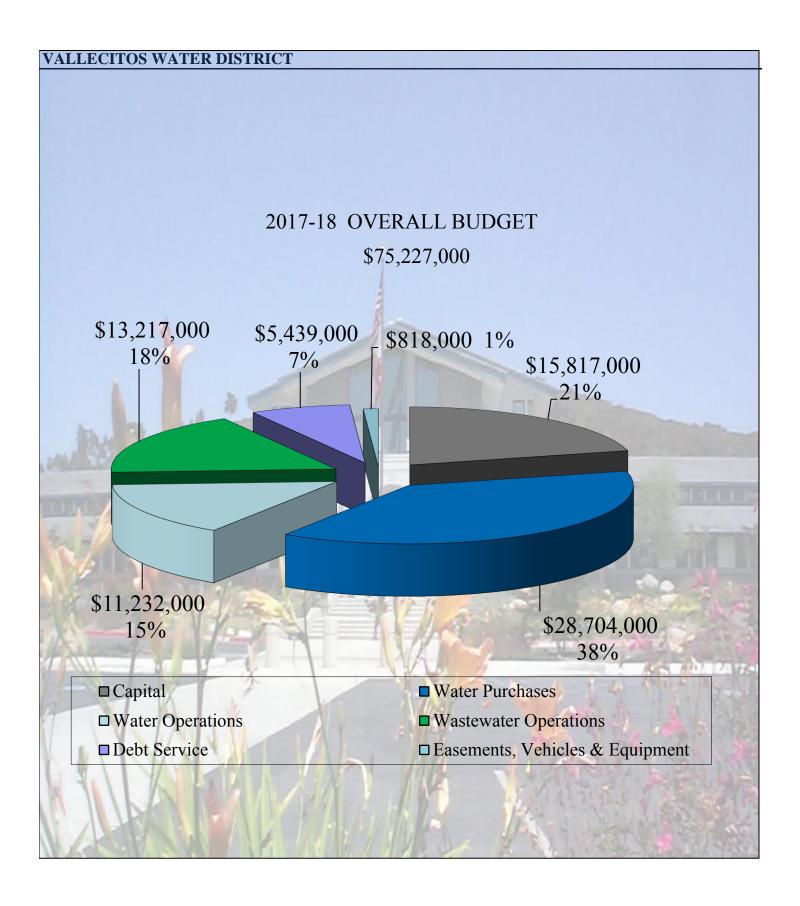
Governmental agencies, such as cities and counties, usually approach their budgets from the "revenue end." Since their revenues are somewhat predictable and restricted, their budgetary considerations are based on setting a level of service (expense total) that can be attained with those available funds.

A special district, however, must make a more thorough analysis. Normally, the expenses can be determined with a high degree of accuracy, and it's the revenues that must be set to cover those expenses. To complicate matters, factors such as weather variability and customer usage habits can have a profound effect on the overall revenue projection.

#### Operations vs. Capital Budget

The budget is designed to ensure various revenues and fees are used as intended. The Operations Budget, which covers the ongoing cost of running the District, is paid by the rate payers of the District through charges for water and sewer service. The Capital Facilities Budget is covered primarily by fees on new development and existing customers with increased demands.

Operating revenue in excess of operating expense is earmarked for transfer to the Replacement Reserve Fund for the future replacement of assets. This ensures the current users of our system are paying their fair share for the maintenance of existing facilities as they depreciate.

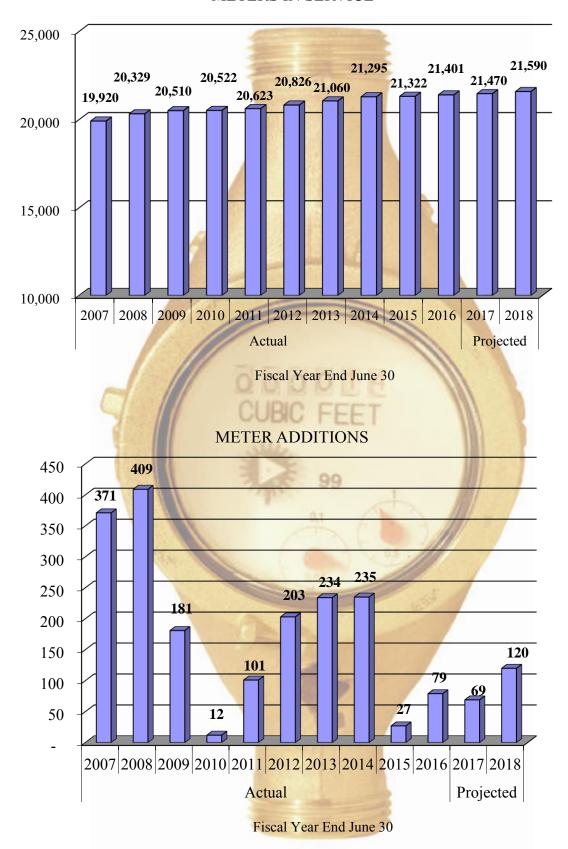


# 2017-18 OPERATING BUDGET

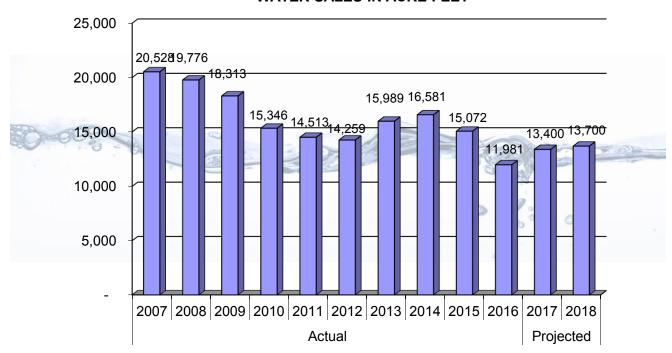
# WATER



#### METERS IN SERVICE

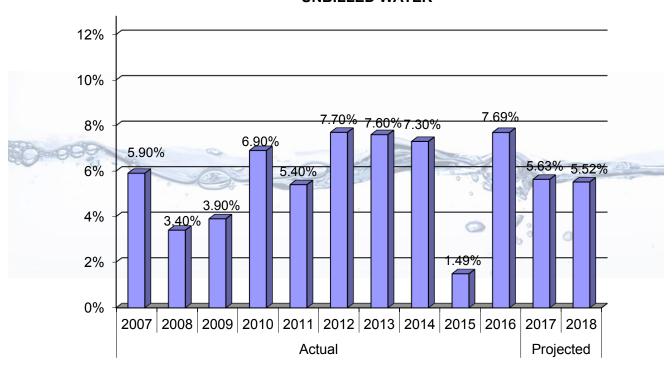


#### **WATER SALES IN ACRE FEET**



Year End Jun 30

#### **UNBILLED WATER**



Year End June 30

Unbilled Water includes use acquired with one-day permits, tie-ins, operational use, fire hydrant damage and use, meter malfunctions, leaks.amd timing differences

#### FUNCTION DEFINITIONS - WATER OPERATIONS

#### **REVENUES**

<u>Water Sales</u>: Monthly charges to cover the wholesale cost of water, with a minimal markup targeted to cover some operating costs and provide funds for capital improvements and replacement.

<u>Ready To Serve</u>: Monthly charge to cover fixed costs, regardless of water sales. Examples include maintenance of reservoirs and transmission lines, meter reading and administrative costs such as insurance.

<u>Pumping Charges</u>: Charges to customers at high elevations, to cover the power costs required to deliver water.

<u>Interest and Other</u>: Interest revenue, late charges, backflow fees, engineering fees and other miscellaneous revenues

#### **OPERATING EXPENSES**

<u>Water Purchases:</u> Vallecitos purchases its water from two sources: The San Diego County Water Authority (SDCWA) and the Olivenhain Municipal Water District. Desalinated water is included in the water purchased from SDCWA.

<u>Pumping</u>: To move water to various elevations, and to provide adequate pressure and storage to higher service connections. Includes maintenance of ten pump stations, readings, and power costs.

<u>Water Quality</u>: To monitor incoming water in accordance with federal and state regulations. Includes collecting samples and reporting results, and maintenance of monitoring equipment.

<u>Water Treatment</u>: To treat water in tanks, handle chemicals, and use and maintain injection equipment for pipelines.

<u>Tanks and Reservoirs</u>: Maintenance of 17 steel tanks and 2 reservoirs. Includes corrosion control, security, and water level monitoring.

<u>Transmission and Distribution</u>: Maintenance of pipeline system within 45 square miles, consisting of 329 miles of pipes. Includes 26 pressure reducing stations, 3 (internal) flow control facilities, all air releases/blow-offs, fire hydrants (buried portion), cross-tie valves with other districts, and valve exercising.

Services: Maintenance of all service lines located from main lines to meters.

#### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

<u>Meters:</u> Reading approximately 21,400 meters monthly for billing purposes as well as maintenance of all customer meters.

<u>Backflow Prevention</u>: Ensures compliance with Title 17, requiring backflow devices for specific connections to protect quality of water in our system.

<u>Customer Accounts</u>: Costs related to opening and closing accounts, response to customer concerns, billing costs (statements, mailing), and uncollectible accounts.

<u>Equipment and Vehicles</u>: Maintenance of District equipment. Includes all construction equipment, water, sewer and administrative vehicles, plus miscellaneous tools and equipment.

<u>Buildings and Grounds</u>: Maintenance of administrative and operations buildings, warehouse, and shops. Also includes power costs, alarmed security system, landscape service, janitorial, and pest control.

<u>Engineering</u>: All costs of engineering, capital facilities and inspection services. Includes review and monitoring of development to ensure compliance with standard design practices, impact on existing system and environment, and orderly planning to provide adequate water and sewer service as demand dictates.

<u>Safety and Regulatory Affairs</u>: Program to control unnecessary risks, hazardous conditions, and unsafe practices, and minimize physical losses, personnel injuries, and district liability, and to provide for regulatory compliance in environmental, public health and other mandated areas.

<u>Information Technology</u>: Centralization of the District's technology to maintain hardware, software, servers, networks, and interfaces.

#### General and Administrative

#### Cost of Labor:

- *Salaries* include administrative and conservation personnel salaries and all vacation, sick leave, and holiday time for administrative and water personnel.
- *Group Insurance* is health, vision, and dental costs for all administrative and water personnel.
- Workers' Compensation Insurance costs for all administrative and water personnel.
- Public Employees Retirement System (PERS) participation costs for all administrative and water personnel.
- *Social Security* costs for all administrative and water personnel.

#### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

#### General and Administrative (continued)

• Other Taxes/Benefits includes unemployment and other miscellaneous employee taxes and benefits such as annual luncheon, picnic, and awards for all personnel.

*District Insurance* premium costs protect District assets, such as buildings and vehicles, and provide liability coverage for potential claims.

Outside Services are provided by consultants and temporary help.

Legal costs are incurred for general legal counsel (presence at board meetings, contracts, employment issues, etc.)

Auditing is conducted by a certified public accounting firm to provide an opinion on the annual financial report.

Banking Services are provided to maintain the District's general checking account plus trust and custody services.

Office Supplies are purchased for necessary administration of the District including office equipment costing less than the capitalization threshold.

*Postage* not related to public relations or customer billing includes notifications, such as shutdowns and public hearing notification mailings.

Office Equipment Repair covers maintenance contracts on computer system, billing equipment, copiers, telephone system, and other repairs as needed.

*Telephone* costs are for service at administration and water operations, long distance, data lines, and cellular phone service for field and key personnel.

Travel costs are for administrative and water personnel.

*Meetings and Seminars* for administrative and water personnel provide District representation and professional development.

*Dues and Subscriptions* are for memberships and periodicals to various organizations, such as American Water Works Association (AWWA).

*Public Awareness/Conservation* is the "image and information" arm of the District, utilizing publications, special events, the speakers' bureau, and the VWD School Program to present Vallecitos as the "Water and Wastewater Specialists" and promote effective water conservation programs.

#### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

#### General and Administrative (continued)

*Regulatory Fees* are incurred for renewal fees for personnel certifications such as water distribution and treatment, notary, and professional memberships, state regulatory agencies, and other compliance matters.

*Election and Annexations* facilitation costs are assessed by the County.

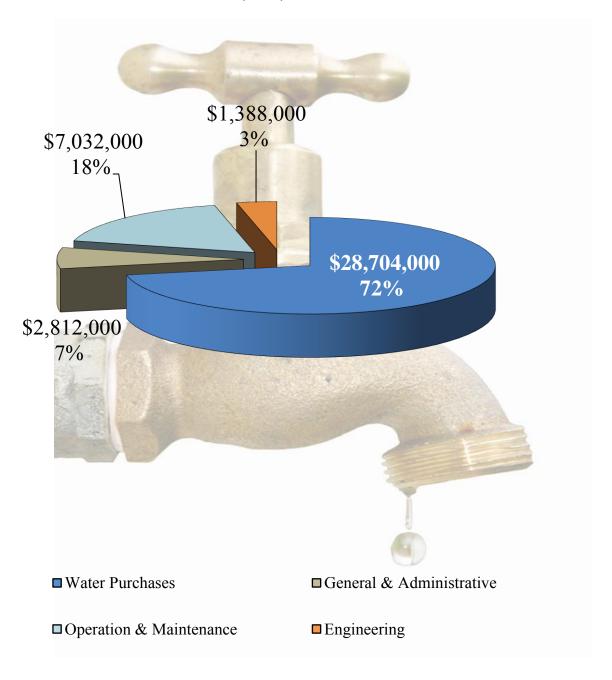
*Director Fees* are paid for attendance of board meetings, professional conferences, and other District-sanctioned organizations.

*Director Expenses* include all costs incurred by Directors, such as travel reimbursement and conference fees.

Other/Mandated Reimbursements include miscellaneous expenses that do not specifically apply to any of the above-referenced categories less mandated cost reimbursements due from the State.

Administrative Credit Transfer is a collection or recovery of overhead costs that are applied to all construction work orders.

2017-18 WATER OPERATING EXPENSE BUDGET \$39,936,000



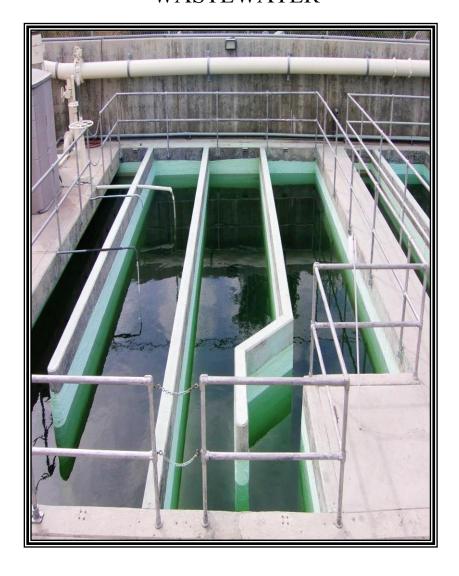
		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
OPERATING REVENUES						
Water Sales	4001	\$18,797,274	\$23,727,000	\$ 21,535,000	\$ 26,800,000	\$ 28,753,000
Ready to Serve	4003	13,602,800	12,244,000	13,724,000	13,229,000	13,952,000
Pumping Charges	4002	138,870	300,000	160,000	250,000	340,000
Interest	4401	174,922	5,000	5,000	5,000	5,000
Other	Various	847,468	580,000	705,000	675,000	694,000
Total Revenue		33,561,334	36,856,000	36,129,000	40,959,000	43,744,000
OPERATING EXPENSES						
Water Purchases	1010	22,190,912	26,270,000	26,500,000	28,704,000	31,242,000
Pumping	2010	531,774	531,000	566,000	677,000	801,000
Water Quality	2020	129,300	165,000	105,000	175,000	187,000
Water Treatment	2030	392,891	375,000	428,000	447,000	474,000
Tanks & Reservoirs	2040	371,156	344,000	292,000	416,000	429,000
Transmission & Dist.	2050	1,189,437	1,412,000	1,794,000	1,835,000	2,048,000
Services	2060	219,408	190,000	153,000	245,000	273,000
Meters	2070	713,164	651,000	611,000	629,000	655,000
<b>Backflow Prevention</b>	2080	60,210	72,000	74,000	64,000	66,000
Customer Accounts	4010	533,906	686,000	549,000	614,000	641,000
Equipment & Vehicles	4210	279,557	317,000	290,000	304,000	301,000
Building & Grounds	4110	351,317	318,000	392,000	362,000	357,000
Engineering	5010	1,270,198	1,539,000	1,317,000	1,388,000	1,443,000
Safety & Reg. Affairs	5210	223,760	272,000	214,000	261,000	272,000
Information Technology	6230	732,457	941,000	786,000	1,003,000	1,046,000
General & Admin.	<i>6xxx</i>	3,455,410	2,773,000	2,913,000	2,812,000	2,979,000
Total Expense		32,644,857	36,856,000	36,984,000	39,936,000	43,214,000
OPERATING INCOME		916,477	-	(855,000)	1,023,000	530,000
LESS TRANSFERS TO						
REPLACEMENT RESER	VE	916,477		(855,000)	1,023,000	530,000
NET INCOME		\$ -	\$ -	\$ -	\$ -	\$ -

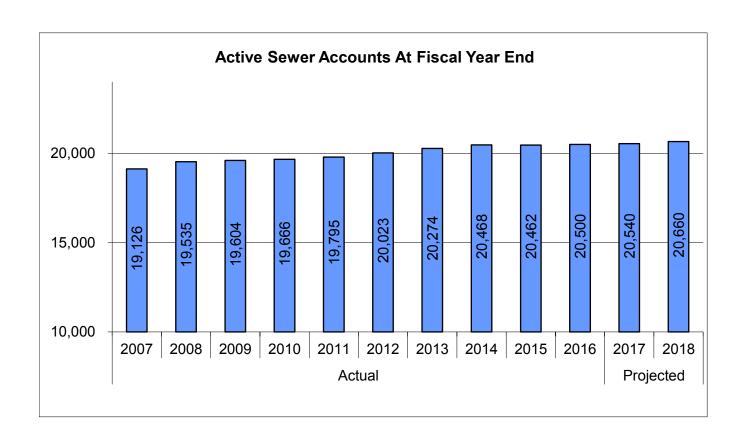
		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
WATER PURCHASES	5001	\$22,190,912	\$26,270,000	\$ 26,500,000	\$ 28,704,000	\$ 30,881,000
PUMPING						
Cost of Labor	2010xxx.51xx	77,021	86,000	84,000	104,000	109,000
Materials & Supplies	" .53xx	39,698	15,000	26,000	30,000	33,000
Outside Repair/Service	" .54xx	22,253	10,000	8,000	18,000	19,000
Power	" .5306	392,802	420,000	448,000	525,000	640,000
Total Pumping		531,774	531,000	566,000	677,000	801,000
WATER QUALITY						
Cost of Labor	2020000.51x <sub>λ</sub>	42,760	89,000	36,000	63,000	66,000
Material & Supplies	" .53xx	34,070	28,000	41,000	50,000	57,000
Outside Repair/Service	" .54xx	52,470	48,000	28,000	62,000	64,000
Total Water Treatment	t	129,300	165,000	105,000	175,000	187,000
WATER TREATMENT						
Cost of Labor	2030000.51x <sub>λ</sub>	317,946	329,000	368,000	375,000	395,000
Material & Supplies	" .53xx	18,106	37,000	44,000	42,000	47,000
Outside Repair/Service	" .54xx	56,839	9,000	16,000	20,000	22,000
Power	" .5306				10,000	10,000
Total Water Treatment	t	392,891	375,000	428,000	447,000	474,000
TANKS & RESERVOIR	S					
Cost of Labor	2040xxx.51xx	225,456	249,000	204,000	248,000	258,000
Materials & Supplies	" .53xx	28,618	18,000	18,000	25,000	23,000
Outside Repair/Service	" .54xx	112,257	70,000	65,000	138,000	142,000
Power	" .5306	4,825	7,000	5,000	5,000	6,000
Total Tanks & Reserve	oirs	371,156	344,000	292,000	416,000	429,000
TRANSMISSION & DIS	TRIBUTION	V				
Cost of Labor	2050xxx.51xx	929,020	1,074,000	1,137,000	1,178,000	1,244,000
Materials & Supplies	" .53xx	176,447	175,000	141,000	265,000	274,000
Outside Repair	" .54xx	73,608	150,000	506,000	380,000	516,000
Power	" .5306	10,362	13,000	10,000	12,000	14,000
Total Trans. & Dist.		1,189,437	1,412,000	1,794,000	1,835,000	2,048,000
SERVICES						
Cost of Labor	2060xxx.51xx	108,553	120,000	70,000	100,000	107,000
Materials & Supplies	" .53xx	70,813	50,000	17,000	25,000	24,000
Outside Repair	" .54xx	40,042	20,000	66,000	120,000	142,000
Total Services		219,408	190,000	153,000	245,000	273,000
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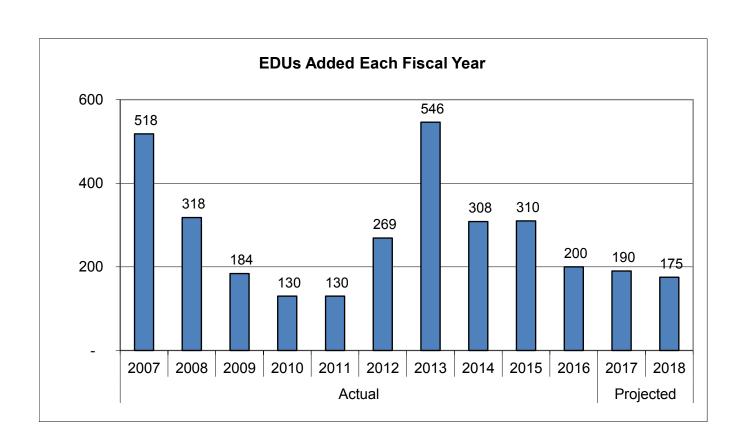
		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
METERS						
Cost of Labor	2070xxx.51xx	\$ 639,288	\$ 595,000	\$ 585,000	\$ 565,000	\$ 599,000
Material & Supplies	" .53xx	69,031	45,000	18,000	53,000	47,000
Outside Service/Repair	" .54xx	4,845	11,000	8,000	11,000	9,000
Total Meters		713,164	651,000	611,000	629,000	655,000
BACKFLOW PREVENT	ION					
Cost of Labor	2080000.51xx	60,066	70,000	73,000	25,000	27,000
Materials & Supplies	" .53xx	144	2,000	1,000	2,000	2,000
Outside Service	" .54xx				37,000	37,000
Total Backflow		60,210	72,000	74,000	64,000	66,000
CUSTOMER ACCOUNT	ΓS					
Cost of Labor	4010000.51xλ	406,606	546,000	436,000	487,000	519,000
Materials & Supplies	" .53xx	58,516	55,000	49,000	55,000	50,000
Outside Service/Repair	" .54xx	40,223	45,000	32,000	32,000	38,000
Uncollectible Accts.	" .5703	28,561	40,000	32,000	40,000	34,000
Total Cust. Accts.		533,906	686,000	549,000	614,000	641,000
EQUIPMENT & VEHIC	LES					
Cost of Labor	4210000.51xx	74,239	132,000	88,000	114,000	118,000
Material & Supplies	" .53xx	66,898	45,000	71,000	65,000	68,000
Fuel	" .5307	96,585	100,000	85,000	95,000	99,000
Outside Repair	" .54xx	41,835	40,000	46,000	30,000	16,000
Total Equip. & Vehicl	es	279,557	317,000	290,000	304,000	301,000
BUILDING & GROUND	os					
Cost of Labor	4110000.51xλ	175,710	153,000	206,000	173,000	163,000
Materials & Supplies	" .53xx	36,373	57,000	22,000	63,000	65,000
Outside Services	" .54xx	71,677	48,000	74,000	76,000	78,000
Power	" .5306	67,557	60,000	90,000	50,000	51,000
Total Bldg. & Grnd.		351,317	318,000	392,000	362,000	357,000
ENGINEERING						
Cost of Labor	5010000.51xλ	1,213,380	1,397,000	1,283,000	1,315,000	1,373,000
Materials & Supplies	" .53xx	36,588	21,000	3,000	25,000	21,000
Outside Services	" .54xx	20,230	121,000	31,000	48,000	49,000
Total Engineering		1,270,198	1,539,000	1,317,000	1,388,000	1,443,000
2 2						

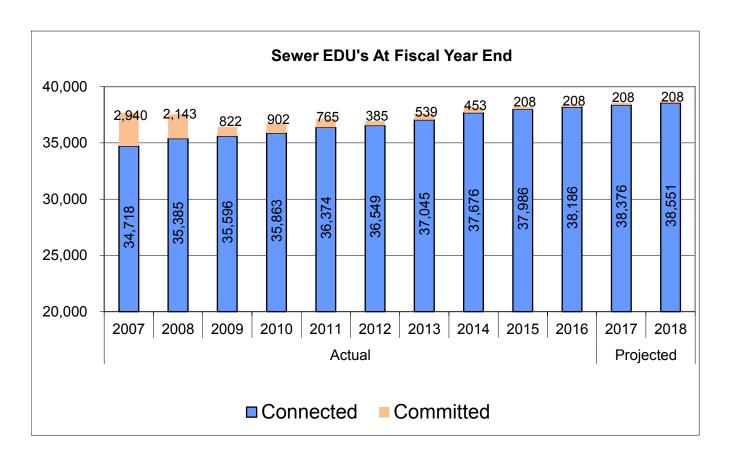
		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
SAFETY & REG. AFFA	IRS					
Cost of Labor	5210000.51xx	\$ 196,736	\$ 244,000	\$ 205,000	\$ 234,000	\$ 246,000
Materials & Supplies	" .53xx	16,999	14,000	2,000	14,000	13,000
Safety Support	" .54xx	10,025	14,000	7,000	13,000	13,000
Total Safety		223,760	272,000	214,000	261,000	272,000
INFORMATION TECHN	NOLOGY					
Cost of Labor	6230000.51xx	376,974	544,000	419,000	523,000	554,000
Materials & Supplies	" .53xx	100,865	104,000	67,000	143,000	147,000
Outside Services	" .54xx	254,618	293,000	300,000	337,000	345,000
Total Information Tec	h	732,457	941,000	786,000	1,003,000	1,046,000
GENERAL & ADMINIS	TRATION					
Cost of Labor	6xxxxxx.51xx	3,091,137	2,813,000	2,810,000	2,987,000	3,195,000
Directors Fees	" .5101	51,512	80,000	74,000	62,000	64,000
District Insurance	" .5201	131,220	173,000	135,000	163,000	181,000
Travel	" .5202	20,551	8,000	9,000	8,000	8,000
Meetings & Seminars	" .5203	23,094	33,000	19,000	31,000	32,000
Dues & Subscriptions	" .5204	77,211	52,000	66,000	72,000	74,000
Directors Expenses	" .5205	58,531	50,000	46,000	50,000	51,000
Office Supplies	" .5301	81,861	50,000	42,000	50,000	51,000
Awareness/Conservation	" .5303	171,822	111,000	64,000	77,000	79,000
Postage	" .5304	2,607	3,000	5,000	3,000	3,000
Outside Services	" .5401	192,136	133,000	103,000	90,000	92,000
Legal	" .5402	152,749	143,000	107,000	130,000	140,000
Auditing	" .5403	12,528	20,000	16,000	20,000	23,000
Bank/Investment Svcs	" .5501	-	20,000	14,000	20,000	21,000
Regulatory Fees	" .5502	_	5,000	54,000	57,000	58,000
Election & Annexation	" .5503	_	5,000	-	2,000	2,000
Other/Reimbursements		29,119	10,000	16,000	10,000	10,000
Admin Credit Transfer.	4702	(640,668)	(936,000)	(667,000)	(1,020,000)	(1,105,000)
Total Gen. & Admin.		3,455,410	2,773,000	2,913,000	2,812,000	2,979,000
TOTAL EXPENSES		\$32,644,857	\$36,856,000	\$ 36,984,000	\$ 39,936,000	\$ 42,853,000

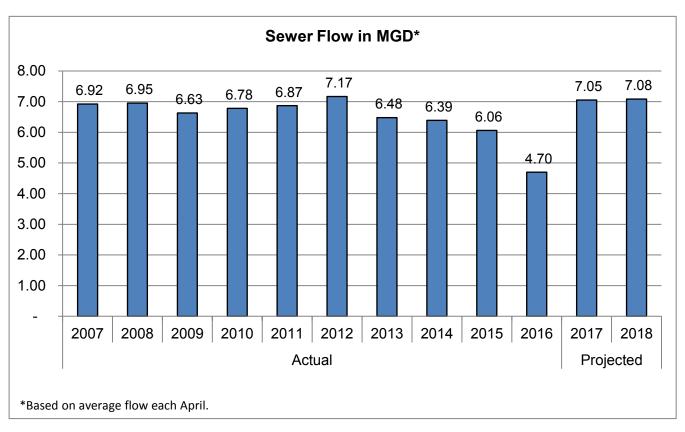
# 2017-18 OPERATING BUDGET WASTEWATER











#### FUNCTION DEFINITIONS - WASTEWATER OPERATIONS

#### *REVENUES*

<u>Sewer Service</u>: Monthly charges to cover the cost to collect, treat and dispose of wastewater plus maintain the various wastewater facilities

<u>Reclaimed Water Sales</u>: Revenue generated from contractual sale of reclaimed water to the Carlsbad Municipal Water District and the Olivenhain Municipal Water District on a cost recovery basis.

Other: Interest revenue, late charges, engineering fees and other miscellaneous revenues.

#### OPERATING EXPENSES

<u>Collection and Conveyance</u>: Maintaining flow in 249 miles of District sewer lines. Includes blockage removal, television inspection, and maintenance of pipeline system and manholes.

<u>Lift Stations</u>: Cost of lifting sewage flows at the Montiel Lift Station, Lake San Marcos Lift Station and Questhaven sewer lift station. Includes maintenance and power costs of the pumping systems.

<u>Peroxide Station</u>: Odor control by injection of hydrogen peroxide at outfall line on El Camino Real. Includes monitoring, maintenance, and chemicals. This site has been decommissioned, but continues to be maintained for potential future use.

<u>Source Control</u>: Costs to ensure compliance with federal, state, and local regulations as administered through the Encina Wastewater Authority.

<u>Encina Disposal</u>: Cost reimbursement to the Encina Wastewater Authority for processing wastewater and returning clean water to the environment.

<u>Meadowlark Plant</u>: All costs attributed to treating wastewater and for production and sale of reclaimed water to Carlsbad MWD, and OMWD including operation and maintenance of the plant, No. 1 Lift Station, and Mahr Reservoir.

<u>Customer Accounts</u>: Responds to customers, associated billing costs, and uncollectible accounts.

<u>Equipment and Vehicles</u>: Maintenance of sewer vehicles and equipment and transfer of a portion of administrative and water operations vehicle costs attributable to sewer.

Buildings and Grounds: A transfer of costs attributable to sewer.

Engineering: All attributable sewer engineering, capital facilities and inspection costs.

#### FUNCTION DEFINITIONS - WASTEWATER OPERATIONS (Continued)

<u>Safety and Compliance</u>: A transfer of safety and regulatory affairs costs attributable to sewer operations.

<u>Information Technology</u>: Centralization of the District's technology to maintain hardware, software, servers, networks, and interfaces.

#### General and Administrative

#### Cost of Labor:

- Salaries include all vacation, sick leave, and holiday time for sewer personnel.
- *Group Insurance* is health, vision, and dental costs for all sewer personnel.
- Workers' Compensation Insurance covers all sewer personnel.
- Public Employees Retirement System (PERS) participation costs for all sewer personnel.
- Social Security cost for all sewer personnel.
- Other Taxes include unemployment and other miscellaneous employee taxes for sewer personnel.

*Travel* costs for sewer personnel.

*Meetings and Seminars* fees for sewer personnel are to provide District representation and professional development.

Dues and Subscriptions are periodical costs for sewer-related activities.

Other includes miscellaneous expenses that do not specifically apply to any of the above-referenced categories.

Administrative Credit Transfer is the collection or recovery of overhead costs that apply to all construction work orders.

# WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2018 $\,$

		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
OPERATING REVENUES						
Sewer Service	4101	\$17,286,888	\$ 17,846,000	\$ 17,458,000	\$ 17,510,000	\$ 17,563,000
Reclaimed Water Sales	4102	1,069,074	1,938,000	1,676,000	2,055,000	2,080,000
Other	Various	98,210	77,000	78,000	78,000	79,000
Total Revenue	, corrolls	18,454,172	19,861,000	19,212,000	19,643,000	19,722,000
Total Revenue		10,434,172	17,001,000	17,212,000	17,043,000	17,722,000
OPERATING EXPENSES						
Collection & Conveyance	3010000	1,762,895	2,262,000	1,893,000	2,256,000	2,377,000
Lift Stations	3020000	268,373	322,000	396,000	310,000	323,000
Peroxide Station	3050000	456	-	-	-	-
Source Control	3060000	132,532	193,000	143,000	178,000	188,000
Encina Disposal	3070000	2,485,765	2,691,000	2,539,000	2,870,000	2,956,000
Meadowlark Plant	3410000	2,750,187	3,484,000	2,957,000	3,474,000	3,482,000
Customer Accounts	4010000	370,109	461,000	382,000	458,000	485,000
Equipment & Vehicles	4210000	205,846	261,000	194,000	229,000	221,000
Buildings & Grounds	4110000	194,726	230,000	222,000	257,000	274,000
Engineering	5010000	618,839	656,000	556,000	710,000	669,000
Safety & Compliance	5210000	137,751	165,000	155,000	189,000	198,000
Information Technology	6230000	614,566	734,000	657,000	831,000	865,000
General & Admin.	6xxx000	1,270,897	1,261,000	1,285,000	1,455,000	1,556,000
Total Expense		10,812,942	12,720,000	11,379,000	13,217,000	13,594,000
OPERATING INCOME		7,641,230	7,141,000	7,833,000	6,426,000	6,128,000
LESS: TRANSFERS TO						
REPLACEMENT RESERV	VE	7,641,230	7,141,000	7,833,000	6,426,000	6,128,000
NET INCOME		\$ -	\$ -	\$ -	\$ -	\$ -

# WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2018 $\,$

		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
COLLECTION/CONVEY.	ANCE					
Cost of Labor	3010xxx.51xx	\$ 1,179,829	\$ 1,607,000	\$ 1,363,000	\$ 1,517,000	\$ 1,619,000
Materials & Supplies	" .53xx	75,214	115,000	91,000	120,000	123,000
Chemicals	" .5350	306,209	300,000	237,000	300,000	308,000
Outside Services/Power	" .5xxx	201,643	240,000	202,000	319,000	327,000
Total Collection/Convey	yance	1,762,895	2,262,000	1,893,000	2,256,000	2,377,000
LIFT STATIONS						
Cost of Labor	3020xxx.51xx	152,261	167,000	152,000	187,000	197,000
Materials & Supplies	" .53xx	29,291	40,000	122,000	45,000	46,000
Outside Services	" .54xx	43,965	75,000	75,000	28,000	29,000
Power	" .5306	42,856	40,000	47,000	50,000	51,000
Total Lift Stations		268,373	322,000	396,000	310,000	323,000
PEROXIDE STATION						
Cost of Labor	3050000.51xx	308	-	-	-	-
Outside Services/Power	" .5xxx	148	-	-	-	-
Total Peroxide Sta.		456				
SOURCE CONTROL						
Cost of Labor	3060000.51xx	128,670	144,000	140,000	153,000	162,000
Materials & Supplies	" .53xx	3,862	42,000	2,000	21,000	22,000
Outside Services	" .54xx	-	7,000	1,000	4,000	4,000
Total Industrial Waste		132,532	193,000	143,000	178,000	188,000
ENCINA DISPOSAL	3070000.551	2,485,765	2,691,000	2,539,000	2,870,000	2,956,000
MEADOWLARK LIFT ST	TATION					
Cost of Labor	3710000.51xx	64,322	122,000	73,000	102,000	107,000
Material & Supplies	" .53xx	45,498	40,000	8,000	60,000	62,000
Chemicals	" .5350	102,613	150,000	124,000	150,000	154,000
Outside Services	" .54xx	67,742	75,000	37,000	117,000	120,000
Power	" .5306	65,685	100,000	104,000	105,000	108,000
Total Lift Sta.		345,860	487,000	346,000	534,000	551,000

# WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2018 $\,$

		Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
MEADOWLARK PLANT						
Cost of Labor	3410000.51xx	\$ 861,506	\$ 1,033,000	\$ 919,000	\$ 1,009,000	\$ 1,069,000
Materials & Supplies	" .53xx	258,411	442,000	360,000	375,000	322,000
Chemicals	" .5350	447,358	460,000	482,000	385,000	395,000
Outside Services	" .54xx	265,495	400,000	222,000	474,000	427,000
Power	" .5306	379,522	410,000	411,000	435,000	448,000
Telephone	" .5305	1,091	5,000	2,000	2,000	2,000
Total Meadowlark		2,213,383	2,750,000	2,396,000	2,680,000	2,663,000
MAHR RESERVOIR						
Cost of Labor	3810000.51xx	81,602	127,000	57,000	96,000	101,000
Materials & Supplies	" .53xx	23,861	10,000	20,000	10,000	10,000
Chemicals	" .5350	8,839	30,000	24,000	30,000	29,000
Outside Services	" .54xx	52,023	40,000	58,000	64,000	66,000
Power	" .5306	24,619	40,000	56,000	60,000	62,000
Total Mahr Reservoir		190,944	247,000	215,000	260,000	268,000
CUSTOMER ACCOUNTS						
Cost of Labor 4	4010000.51xx	273,567	362,000	290,000	364,000	389,000
Materials & Supplies	" .53xx	49,613	50,000	45,000	52,000	53,000
Outside Services	" .54xx	33,503	35,000	31,000	27,000	28,000
Uncollectible Accts.	" .5703	13,426	14,000	16,000	15,000	15,000
Total Cust. Accts.		370,109	461,000	382,000	458,000	485,000
EQUIPMENT & VEHICLES	S					
Cost of Labor 4	4210000.51xx	93,387	133,000	98,000	107,000	111,000
Materials & Supplies	" .53xx	40,089	41,000	27,000	50,000	51,000
Fuel	" .5307	39,122	52,000	32,000	47,000	48,000
Outside Services	" .54xx	33,248	35,000	37,000	25,000	11,000
Total Equip. & Veh.		205,846	261,000	194,000	229,000	221,000
BUILDING & GROUNDS						
Cost of Labor 4	4110000.51xx	51,009	123,000	60,000	98,000	110,000
Materials & Supplies	" .53xx	22,206	9,000	15,000	43,000	44,000
Outside Services	" .54xx	57,507	41,000	61,000	61,000	63,000
Power	" .5306	64,004	57,000	86,000	55,000	57,000
Total Building & Grounds	5	194,726	230,000	222,000	257,000	274,000
ENGINEERING						
Cost of Labor	5010000.51xx	543,886	626,000	551,000	612,000	639,000
Materials & Supplies	" .53xx	61,662	11,000	1,000	18,000	18,000
Outside Services	" .54xx	13,291	19,000	4,000	80,000	12,000
<b>Total Engineering</b>		618,839	656,000	556,000	710,000	669,000

			Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
SAFETY & REGULATO	RY AFI	FAIRS	}				
Cost of Labor	521000	0.51xx	\$ 125,625	\$ 139,000	\$ 140,000	\$ 163,000	\$ 172,000
Materials & Supplies	"	.53xx	2,315	13,000	7,000	13,000	13,000
Safety Support	"	.54xx	9,811	13,000	8,000	13,000	13,000
Total Safety/Reg Affai	rs		137,751	165,000	155,000	189,000	198,000
INFORMATION TECH							
Cost of Labor	623000	0.51xx	254,297	315,000	278,000	371,000	394,000
Materials & Supplies	"	.53xx	91,665	101,000	72,000	137,000	140,000
Outside Services	"	.54xx	268,604	318,000	307,000	323,000	331,000
Total Information Tech	1		614,566	734,000	657,000	831,000	865,000
GENERAL & ADMINIST	ΓRATIC	N					
Cost of Labor	6ххххх	x.51xx	1,355,856	1,363,000	1,265,000	1,498,000	1,612,000
Directors Fees	"	.5101	37,813	62,000	53,000	58,000	59,000
District Insurance	"	.5201	126,074	172,000	129,000	157,000	176,000
Travel	"	.5202	-	1,000	-	1,000	1,000
Meetings & Seminars	"	.5203	1,224	11,000	2,000	10,000	10,000
Dues & Subscriptions	"	.5204	421	17,000	24,000	39,000	40,000
Office Supplies	"	.5301	18,547	10,000	10,000	11,000	11,000
Postage	"	.5304	-	2,000	12,000	6,000	6,000
Outside Services	"	.5401	59,492	54,000	18,000	40,000	41,000
Legal	"	.5402	140,797	142,000	107,000	142,000	153,000
Auditing	"	.5403	12,062	17,000	16,000	17,000	20,000
Bank/Investment Svcs	"	.5501	-	18,000	14,000	16,000	16,000
Regulatory Fees	"	.5502	-	-	-	3,000	3,000
Other	"	.5702	3,123	5,000	5,000	5,000	5,000
Admin Credit Trans	470	02	(484,512)	(613,000)	(370,000)	(548,000)	(597,000)
Total Gen. & Admin.			1,270,897	1,261,000	1,285,000	1,455,000	1,556,000
TOTAL EXPENSES			\$10,812,942	\$ 12,720,000	\$ 11,379,000	\$ 13,217,000	\$ 13,594,000

Total Budgeted FTEs

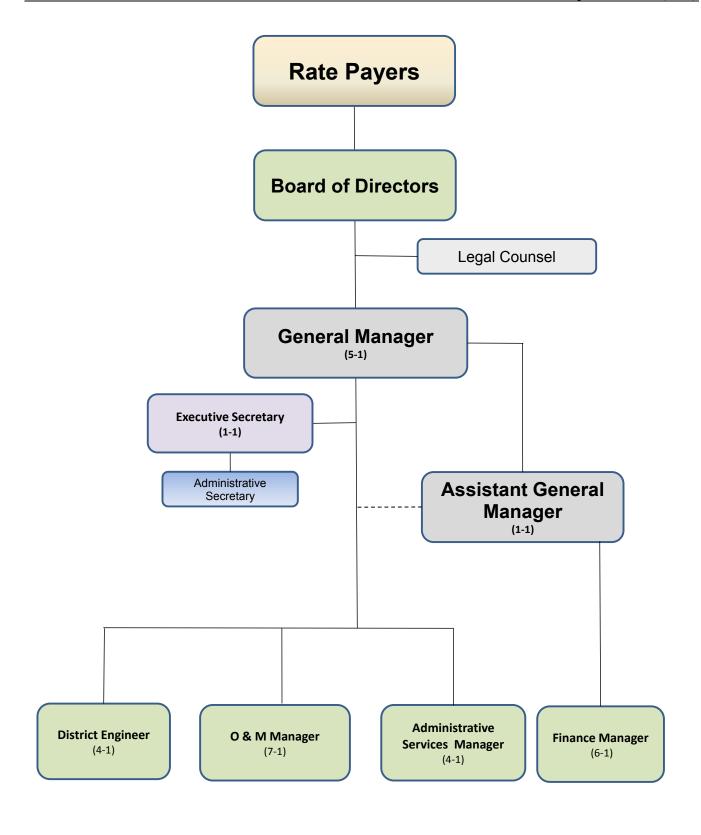
## BUDGET FOR THE YEAR ENDING JUNE 30, 2018

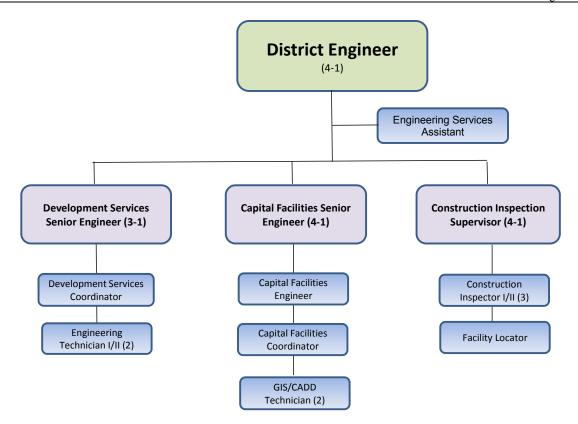
#### SALARY AND BENEFIT RECAP

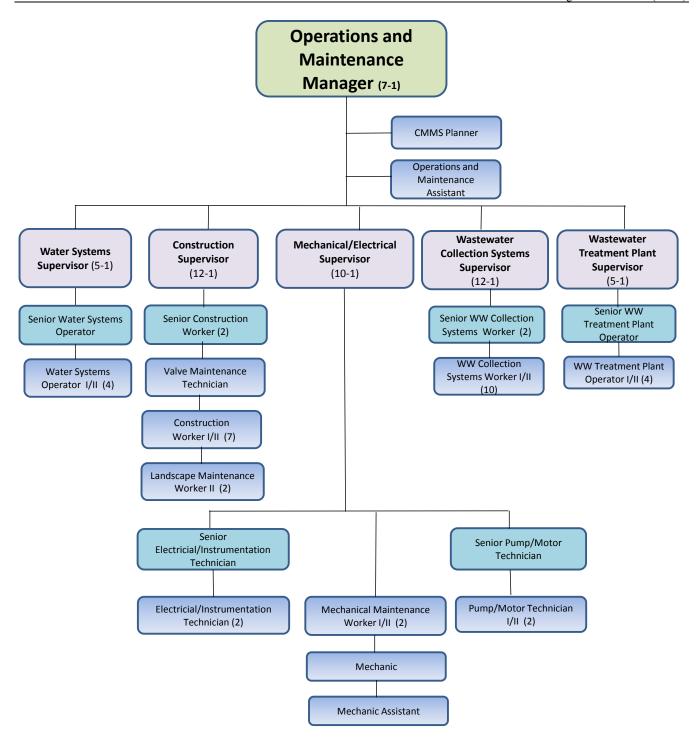
	Actual FY 15-16	Budget FY 16-17	Projected FY 16-17	Budget FY 17-18	Estimated FY 18-19
SALARIES					
Water Operations	\$ 5,136,345	\$ 5,125,000	\$ 4,968,000	\$ 5,117,000	\$ 5,415,000
Wastewater Operations	3,245,093	3,801,000	3,269,000	3,783,000	4,032,000
Subtotal	8,381,438	8,926,000	8,237,000	8,900,000	9,447,000
Labor Posted to Work Orders*	664,063	762,000	594,000	772,000	816,000
TOTAL SALARIES	9,045,501	9,688,000	8,831,000	9,672,000	10,263,000
BENEFITS					
Public Employee Retirement	1,439,025	1,990,000	1,862,000	2,097,000	2,199,000
Group Insurance	2,051,940	2,655,000	2,333,000	2,677,000	2,848,000
Social Security	667,480	741,000	664,000	740,000	785,000
Workers' Comp Insurance	212,845	239,000	193,000	218,000	238,000
457 Contribution Match	-	112,000	203,000	108,000	108,000
Other Taxes and Benefits	40,009	38,000	25,000	28,000	30,000
TOTAL BENEFITS	4,411,299	5,775,000	5,280,000	5,868,000	6,208,000
TOTAL SALARIES & BENEFITS	\$ 13,456,800	\$ 15,463,000	<u>\$ 14,111,000</u>	<u>\$ 15,540,000</u>	<u>\$ 16,471,000</u>
Benefits as a Percentage of Salaries	48.8%	59.6%	59.8%	60.7%	60.5%
Operations	52.00	53.00	52.00	52.00	52.00
Engineering	16.00	16.00	16.00	16.00	16.00
Finance	24.25	24.75	22.75	23.00	23.00
Administration	17.25	18.00	16.75	16.75	16.75
Total Funded FTEs	109.50	111.75	107.50	107.75	107.75

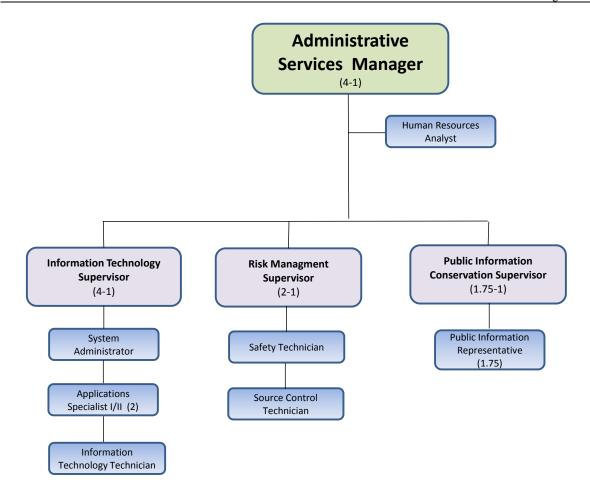
<sup>\*</sup> There is also a labor overhead charge to work orders to cover benefit costs which are a part of the credit in the General and Administration sections of Water and Wastewater operations.

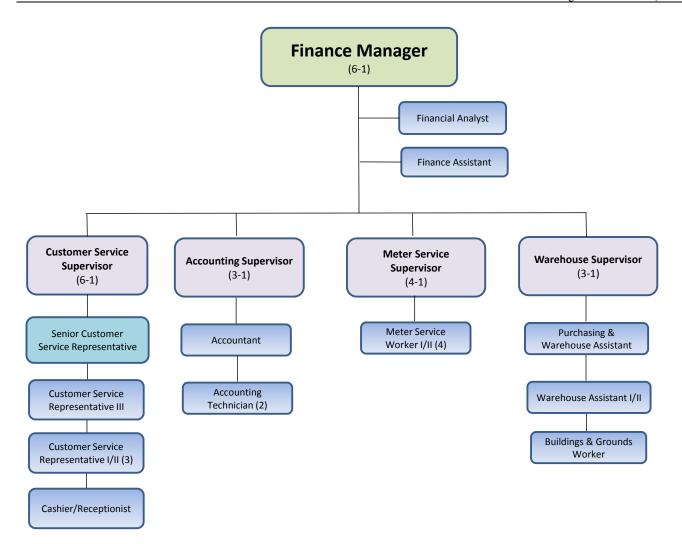
115.25











#### 2017-18 PERSONNEL BUDGET

### POSITIONS/PERSONNEL:

Management will scrutinize the need for all positions and only fill positions if absolutely necessary. The fiscal year 2017-18 budget includes: two reclassifications and four eliminated positions as outlined below.

### **RECLASSIFICATIONS:**

Applications Specialist II - Estimated Additional Annual Cost: \$2,244

This position's job description was updated to better reflect the duties and responsibilities performed. As a result the salary for this position will increase by 2.5% annually.

### <u>Cashier/Receptionist</u> - Estimated Additional Annual Cost: \$11,500

As a result of eliminating one full-time cashier/receptionist, the part-time position is increased to full-time for coverage at the customer service counter.

### **ELIMINATED POSITIONS:**

Meter Service Worker III - Estimated Annual Savings: \$80,500 plus benefits

This position was vacated when the incumbent left the District. The fluctuating workload of the will be absorbed by other staff and outside contractors.

### Public Information Representative - Estimated Annual Savings: \$77,200 plus benefits

This position was vacated when the incumbent left the District. The workload will be redistributed within the existing public information department.

### Wastewater Collections Systems Worker I/II - Estimated Annual Savings: \$68,000 plus benefits

This position was vacated when the incumbent left the District. The Operations Manager determined the work could be redistributed within the department over the short-term.

### <u>Cashier/Receiptionist</u> - Estimated Annual Savings: \$64,700 plus benefits

This position was vacated when the incumbent was promoted within the department. The reclassification of the part-time cashier/receptionist to full-time will provide coverage at the customer service counter.

#### 2017-18 PUBLIC AWARENESS AND CONSERVATION PROGRAM BUDGET

Prj 2018100042

W/O 117447

To encourage the purchase of qualified low flow devices, appliances, artificial turf or rebates to customers who remove their existing truf grass and install a low-water landscape (i.e., Cash for Grass program.)

1,000

\$

### OUTREACH & ADVERTISING Prj 2018100043

W/O 117448

For purchase of items and services used to assist customers in becoming better informed about water related issues. Includes but not limited to: purchase of videos, books, displays and promotional items; advertising; cost to participate in community events; employee education; and to provide tours of District facilities. Includes cost to produce and mail newsletters, consumer confidence report, brochures, bill inserts, special hearing notifications, and others as needed.

52,000

### **VIDEO PRODUCTION**

Prj 2018100044

W/O 123555

Cost to hire outside production company to produce videos highlighting the District or for internal staff to purchase supplies and services to create videos. Videos to be shown during tours of the District, speaking engagements, on the VWD website and/or on social media.

4,200

### **EDUCATION**

Prj 2018100045

W/O 117451

For continued development and purchase of materials designed to promote and implement K-12 education programs. This includes the Splash Science Mobile Lab visits to area elementary schools and payment for bus transportation to Jack's Pond Park and Heritage Park to listen to educational water history information by District staff. Also includes bus transportation for school tours of the District. Includes materials and costs to participate in annual Water Awareness Campaign (4th grade calendar/poster contest), such as the purchase of calendars, entry forms, prizes for entrants and poster contest winners. Also includes participation in Palomar College GEAR UP program.

7,600

### COOPERATIVE PROGRAMS\*

Prj 2018100046

W/O 117452

For participation in cost-sharing programs such as residential surveys; large property audits, which are outsourced due to extensive staff time that would be required; customer service surveys; and supplies such as dye tablets, showerheads and moisture probes.

4,000

### WATERWISE LANDSCAPE

Prj 2018100047

W/O 117453

To promote low water use landscape and irrigation practices. Includes the cost for sponsoring, maintaining and upgrading waterwise demonstration gardens\*\*, landscape irrigation/plant selection workshops, signage and promotion of demonstration gardens, waterwise plant promotions, and purchase of waterwise landscape brochures and publication reprints.

\*\* Demonstration gardens include: Sustainable Demonstration Garden at VWD Administration building, Heritage Park native plant garden and Jack's Pond Park native plant garden.

4,500

### MEMBERSHIPS & EQUIPMENT Prj 2018100048

W/O 117454

To maintain memberships in related organizations and committees and for the purchases of new or replacement equipment.

2,500

### **COMMERCIAL/INDUSTRIAL** P

Prj 2018100049

W/O 11745

To assist large commercial and public agency customers by providing workshops, written materials, monetary incentives, and using outside consultants.

1,200

### TOTAL PUBLIC AWARENESS/CONSERVATION PROGRAM BUDGET

77,000

<sup>\*</sup> Uncertainty in the funding from the Metropolitan Water District may adversely impact the availablity of programs.

## 2017-18 CAPITAL BUDGET



## VALLECITOS WATER DISTRICT

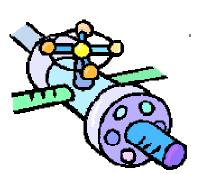
Comp	rehensiv	e Project List	OLUM	1					
					Previous	Estimated Amt			
Page	Project			Funding	Budget &	Expended		Fiscal Year	2017-18
Number	Number	Project Title		Source	Amendments	@ 6/30/17	Ca	rryforward	New Request
Carryo	ver Projects		Check						
36	90001	Encina Parallel Land Outfall	-		\$ 28,150,000	\$ 140,000	\$	28,010,000	\$ 2,850,000
37	71004	San Marcos Interceptor	-	210 & 220	19,700,000	13,600,000		6,100,000	-
38	2013100001		-	120	6,000,000	-		6,000,000	-
39 40	2016100002 2016100003	Chlorine Contact Tank Expansion Montiel Gravity Outfall	-	220 210 & 220	1,950,000 1,750,000	160,000 145,000		1,790,000 1,605,000	2,865,000 2,975,000
41	71084	Meadowlark Tank No. 3		110 & 120	4,552,000	500,000		4,052,000	2,973,000
42	71219	Mountain Belle Pump Station	-	120	3,860,000	100,000		3,760,000	_
43	90003	Rock Springs Sewer Replacement	_	210 & 220	2,460,000	525,000		1,935,000	705,000
44	2017100001	Encina Wastewater Authority FY 16/17	-	210	2,869,000	1,384,000		1,485,000	(835,000)
45	2017100002	MRF: On-site Generation of Sodium Hypochlorite	-	210	2,000,000	-		2,000,000	- 1
46	2012100002	Richland Invert Replacement	-	210	1,135,000	13,000		1,122,000	350,000
47	71177	Land Outfall Clearing & Access Road	-	210	945,000	350,000		595,000	205,000
48	2014100003	Water and Sewer Master Plan	-	120 & 220	1,050,000	950,000		100,000	-
49	80001	Old Questhaven Sewer Replacement	-	210 & 220	835,000	1,000		834,000	-
50	2016100005	Expansion of the Men's Locker Room in Building B	-	110 & 210	575,000	140,000		435,000	235,000
51	2015100002	Audiovisual Upgrade	-	110 & 210	500,000	500,000		-	250,000
52 53	90007	City of San Marcos Joint Projects High Point Pipeline	-	110 & 210 120	670,000 700,000	90,000		580,000 700,000	80,000
54	2015100000	District-wide Valve Replacement Program	-	110	700,000	350,000		350,000	-
55		N W Lake San Marcos Sewer Replacement & Relining Project	_	210	605,000	2,000		603,000	_
56	2014100004	Asset Management Replacement Schedule	_	110 & 210	600,000	-,,,,,	i	600,000	-
57	71126	Vulnerability Assessment Improvements	-	110 & 210	447,700	336,700		111,000	-
58	2014100008	North Vista Pressure Reducing Station Upgrade	-	110	242,000	60,000		182,000	123,000
59	2017100004	Lift Station 1 Wet Well Room Repairs	-	210	295,000	80,000		215,000	-
60	2016100007	Rock Springs Valve Replacement	-	110	250,000	-		250,000	15,000
61	2014100007	South Vista Pressure Reducing Station Upgrade	-	110	234,000	60,000		174,000	21,000
62		Fire Services - Backflow Preventer Upgrades	-	110	250,000	50,000		200,000	
63		Via Vera Cruz Tank Hill Stabilization	-	110	135,000	8,000		127,000	10,000
64 65		Fulton Road and NCTD Sewer Line Rehabilitation	-	210 110	143,000 118,000	30,000 54,000		113,000 64,000	-
66	2016100008	Palos Vista Pump Station - Motor Replacement  Building B Laminate Floor Replacement		110 & 210	40,000	34,000		40,000	
67		Lake San Marcos Lift Station - Motor Replacement	_	210	36,000	18,000		18,000	-
68		HVAC Pump and Motor Replacement	_	110 & 210	20,000	-		20,000	-
		· · · · · · · · · · · · · · · · · · ·			\$ 83,816,700	\$ 19,646,700	\$	64,170,000	\$ 9,849,000
New Pr	•								
69	2018100001	•	-	210 & 220	-	-		-	19,245,000
70		Elser Lane Water Line Improvements	-	110	-	-		-	1,765,000
71	2018100003		-	110	-	-		-	675,000
72	2018100004	•	-	110 110	-	-		-	580,000
73	2018100005 2018100006	Stargaze Court Water Line Replacement Palos Vista Pump Station – Generator		110					400,000 325,000
75	2018100006	Solar Panel Invertor Replacement	-	110 & 210	-	-		-	295,000
76		Laurels Sewer Lining	_	210	-	_		_	210,000
77		MRF - Replace the Influent Pumps & Motors	-	210	-	-		_	195,000
78		Nursery Valve Relocation		210			L		190,000
79		MRF - Tertiary Influent Chamber Repairs	-	250	-	-		-	115,000
80	2018100012	Sewer Replacement and I&I Repairs	-	210	-	-		-	100,000
81		South Lake - Facility Upgrades	-	110	-	-		-	95,000
82		Replace Roofs on Equipment Storages	-	110 & 210	-	-		-	77,000
83		Coronado Hills Chlorine Injection System	-	110	-	-	<b> </b>	-	65,000
84		Building A Kitchens	-	110	-	-		-	65,000
85		Refurbish Pumps at North Twin Oaks Pump Station	-	110	-	-		-	63,000
86 87		Wulff Pump Station Pumps & Motors South Lake Pump Station Valves	-	110	-	-		-	60,000 45,000
88		Solar Panels at Poinsettia Odor Control Injection	-	110 220	-			-	35,000
89		Admin Emergency Generator - Auto Transfer Switch		110 & 210		-	-	-	30,000
90		Gates for Twin Oaks Reservoir Access Road	-	120	-	-		-	25,000
91		Palomar Tank - Valve Replacement	_	110	-	-		-	25,000
92		Mountain Belle Tank - Valve Replacement	-	110	-	-		-	20,000
93		Office Wall for Senior Construction Workers	-	110 & 210	-	-		-	17,000
94	2018100026		-	110 & 210	-	-		-	17,000
95	TBA	Future Projects					l	-	22,853,000
					\$ -	\$ -	\$	<u>-</u>	\$ 47,587,000
					\$ 83,816,700	\$ 19,646,700	\$	64,170,000	\$ 57,436,000
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								\$121,600	5 000

## VALLECITOS WATER DISTRICT

Co	mprehensi	ve	Project Li	ist					2	283.9841734		
	Project					Spending by	/ Fi					Page
	Total	l	2017-18	2018-19		2019-20	_	2020-21	_	2021-22	2022 to 2027	Number
\$	31,000,000	\$	80,000	\$ 150,000	\$	500,000	\$	500,000	\$	3,800,000	\$ 25,830,000	36
Ф	19,700,000	Þ	1,600,000	4,500,000	Ф	300,000	Ф	300,000	Ф	3,800,000	\$ 23,830,000	37
	6,000,000		-	4,500,000		_		_		_	6,000,000	38
	4,815,000		1,000	1,000		1,000		1,000		1,000	4,650,000	39
	4,725,000		380,000	2,560,000		1,640,000		-		-		40
	4,552,000	Г	-	3,052,000		1,000,000		-		-	-	41
	3,860,000		-	-		-		-		-	3,760,000	42
	3,165,000		2,640,000	-		-		-		-	-	43
	2,034,000		650,000	300,000		1,700,000		-		-	-	44 45
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	1,050,000		100,000	_		_		_		_	-	48
	835,000		-	-		-		-		-	834,000	49
	810,000		670,000	-		-		-		-	-	50
	750,000		250,000	-		-		-		-	-	51
	750,000		650,000	-		10,000		-		-	-	50
	700,000		-	700,000		-		-		-	-	53
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	447,700		111,000	200,000		200,000					-	57
	365,000		305,000	-		_		_		_	-	58
	295,000		215,000	-		_		_		-	_	59
	265,000		15,000	220,000		30,000		-		-	-	60
	255,000		195,000	-		-		-		-	-	61
	250,000		50,000	50,000		50,000		50,000		-	-	62
	145,000		137,000	-		-		-		-	-	63
	143,000		113,000	-		-		-		-	-	64
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	40,000 36,000		40,000 18,000	-		-		-		-	-	66 67
	20,000		20,000	-		-		-		-	-	68
\$	93,665,700	\$	9,537,000	\$ 12,765,000	\$	6,291,000	\$	551,000	\$	3,801,000	\$ 41,074,000	00
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	1,765,000		15,000	65,000		410,000		1,275,000		-	-	70
	675,000		675,000	-		-		-		-	-	71
	580,000		15,000	565,000		-		-		-	-	72
	400,000	L	400,000	-		-		-		-	-	73
	325,000		325,000	-		-		-		-	-	74
	295,000		295,000	-		-		-		-	-	75
	210,000		210,000	-		-		-		-	-	76
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<u>-</u>	22,853,000	1					<u>\$</u>		_		-	93

## Capital Improvement Program Encina Parallel Land Outfall

**Description:** This project calls for the installation of approximately 43,500 feet of new outfall pipeline varying between 18 and 30 inches in diameter. The pipeline will parallel the existing sewer interceptor from Lift Station No. 1 to the Encina Water Pollution Control Facility



Project Manager: James Gumpel Department: Engineering

**Project:** 90001 Funding Source: 100% Fund 220 – Sewer Capacity

**Comments:** This project will increase the District's sewer handling capacity by allowing more wastewater flow to the Encina Water Pollution Control Facility. The District will work with other interested agencies (City of Carlsbad, Buena Sanitation District & City of Vista) when possible in pursuit of cost-sharing alternatives.

**Operations Impact:** Increased sewerage handling capacity and additional flexibility & redundancy in outfall system during average and low flow periods. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$140,000	\$80,000	\$100,000				\$320,000
Design			\$50,000	\$500,000	\$500,000	\$1,900,000	\$2,950,000
Construction						\$27,730,000	\$27,730,000
Total	\$140,000	\$80,000	\$150,000	\$500,000	\$500,000	\$29,630,000	\$31,000,000

FY 2017/18 Budget Request - \$2,850,000

Project Approval	Planning		Des	Design		ruction	Completion
	Begin	End	Begin	End	Begin	End	
Jul 2008	Jan 2009	Dec 2018	Jan 2019	Jun 2021	Jul 2021	Jun 2025	Jun 2025

## Capital Improvement Program San Marcos Interceptor

**Description:** The project consists of three separate phases constructing approximately 9,000 LF of 36" sewer interceptor replacing an existing 21" sewer line. The existing line is prone to groundwater inflow and infiltration (I&I) and at risk for failure. The sewer interceptor runs along San Marcos Creek from north of the 78 FWY past McMahr Road. The project includes open cut and tunnel section as well as right of way acquisition.



Project Manager: James Gumpel Department: Engineering

**Project:** 71004 **Funding Source:** 31% Fund 210 – Sewer Replacement 69% Fund 220 – Sewer Capacity

Comments: This project is identified in the 2002 Master Plan. The reduction of I&I will help extend the life of the sewer system downstream of the San Marcos interceptor and reduce unnecessary treatment of groundwater at Encina and Meadowlark. The new line will also reduce the likelihood of spills within San Marcos Creek. Design and land acquisition will move forward in FY 13/14 for the last phase between Via Vera Cruz and Pacific Street in order to be consistent with the future road within the Creek District. The City of San Marcos will reimburse VWD for \$77,000 in design costs for the last phase of this project. The last phase will also include a construction cost reimbursement from the City which is estimated at \$400,000. The construction cost reimbursement will be finalized after actual bid prices are received for the project.

**Operations Impact:** Minimal impact is anticipated as this project increases the size of an existing sewer line and does not add significant lineal footage of sewer for maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$800,000	\$130,000					\$930,000
Design	\$2,600,000	\$270,000					\$2,870,000
Construction	\$10,200,000	\$1,200,000	\$4,500,000				\$15,900,000
Total	\$13,600,000	\$1,600,000	\$4,500,000	\$0	\$0	\$0	\$19,700,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 1996	Jul 1996	Jun 2007	Jul 1998	Apr 2018	May 2018	Jan 2019	Jan 2019

## Capital Improvement Program Coronado Hills Tank #2

**Description:** Build-out demands for the 1530, 1115 and 1320 pressure zones are projected to require a storage volume of 9.63 million gallons over and above existing storage capacity. This project will add 4.73 million gallons of potable water storage to meet the projected near-term total storage deficits in the 1530 and neighboring pressure zones. This reservoir will be constructed on the same site as the existing Coronado Hills Tank.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2013100001 Funding Source: 100% Fund 120 – Water Capacity

**Comments:** The existing Coronado Hills Tank resides on a large, flat parcel that can accommodate additional storage reservoirs with little grading and preparation efforts. The ultimate plan is to locate a total of 3 tanks at this site, with a Coronado Hills #3 tank sized for 3.21 million gallons being constructed around 2030. The Master Plan has identified this as Project R-3.

**Operations Impact:** The project will add 4.73 million gallons of potable water storage to the service system.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning						\$50,000	\$50,000
Design	•					\$690,000	\$690,000
Construction						\$5,260,000	\$5,260,000
Total	\$0	\$0	\$0	\$0	\$0	\$6,000,000	\$6,000,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Des	Design		ruction	Completion
	Begin	End	Begin	End	Begin	End	
Jul 2012	Oct 2022	Dec 2022	Jan 2023	Aug 2023	Sep 2023	Mar 2024	Mar 2024

# **Capital Improvement Program Chlorine Contact Tank Expansion**

**Description:** Expand the existing Chlorine Contact Tank (CCT) at the Meadowlark Reclamation Facility (MRF) from 5 million gallons a day (MGD) to 6.5 MGD. Evaluate updating CCT process to utilize Ultraviolet Sterilization.



Project Manager: James Gumpel Department: Engineering

**Project:** 2016100002 Funding Source: 100% Fund 220 – Sewer Capacity

Work Order: 167177

**Comments:** The existing CCT were part of the original expansion of MRF in the 80's. During the latest expansion of MRF which started in 2005, the CCTs were rerated to handle the expanded flow but were not updated. Currently the CCTs remain one of the bottlenecks in the process at MRF.

Chlorine contact tanks (CCTs) at Meadowlark Water Reclamation Facility (MRF) can process up to 5 million gallons per day (MGD) of reclaimed water; all of the other treatment components at MRF has the ability to process up to 6.5 MGD. This was identified in the draft Nutrient Removal Study, which indicated that MRF has the ability to increase the daily treatment capacity to 6.5 MGD. The District as a member of the North San Diego County Water Reuse Coalition secured a grant of \$90,000 under Prop 84, awarded by the State Water Resources Control Board (SWRCB). The District is seeking 25% Federal Grants for the project budget total and construction of the CCT expansion will be contingent on acquiring these funds.

**Operations Impact:** Normal maintenance.

### **Project Spending Plan**

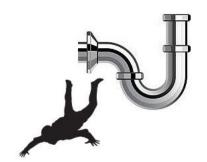
			J	0			
Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$160,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$165,000
Design						\$350,000	\$350,000
Construction						\$4,300,000	\$4,300,000
Total	\$160,000	\$1,000	\$1,000	\$1,000	\$1,000	\$4,651,000	\$4,815,000

FY 2017/18 Budget Request - \$2,865,000

Project Approval	Planning		Design		Construction		Completion					
	Begin	End	Begin	End	Begin	End						
Jul 2015	Apr 2016	Jun 2022	Jul 2022	Oct 2023	Nov 2023	Sep 2024	Sep 2024					

## Capital Improvement Program Montiel Gravity Outfall

**Description:** This project involves the study and potential construction of approximately 7,720 feet of new 10-inch gravity sewer main underneath SR-78 from the Montiel Lift Station to Mission Road and continuing on Mission Road, Andreasen Drive, and Simpson Way to Hale Avenue. This will effectively reroute the sewer that is currently pumped from the Montiel Lift Station to the City of Escondido's sewer system in Mission Road just east of Nordahl Road.



Project Manager: Rob Scholl

Department: Engineering

**Project:** 2016100003 Funding Source: 45% Fund 210 – Sewer Replacement

Work Order: 165996 55% Fund 220 – Sewer Capacity

Comments: To offset the Montiel Lift Station Replacement, the Montiel Lift Station Force Main Replacement, and the Nordahl Shopping Center Sewer Replacement projects as identified in the Master Plan and consistent with the District's Strategic Plan – Strategic Focus Area 1.4, staff is investigating the possibility of constructing a gravity sewer outfall to the City of Escondido's sewer system. Upon entering an agreement with the City of Escondido for a new gravity sewer connection, which may include possible reimbursement to the District, the Montiel Lift Station Replacement and the Montiel Lift Station Force Main Replacement will be eliminated and the Nordahl Shopping Center Sewer Replacement project may be eliminated. These projects amount to approximately \$4,700,000 to construct and \$25,000 annually to operate and maintain.

**Operations Impact:** Annual and routine sewer pipline maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$145,000	\$260,000	\$20,000				\$425,000
Design	•	\$120,000	\$100,000				\$220,000
Construction			\$2,440,000	\$1,640,000			\$4,080,000
Total	\$145,000	\$380,000	\$2,560,000	\$1,640,000	\$0	\$0	\$4,725,000

FY 2017/18 Budget Request - \$2,975,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Feb 2016	Feb 2018	Mar 2018	Nov 2018	Dec 2018	Nov 2019	Nov 2019

## Capital Improvement Program Meadowlark Tank No. 3

**Description:** This existing Meadowlark Tank site is comprised of one 1.25 million gallon tank and a second 2.75 million gallon tank. The 1.25 million gallon tank will be demolished and replaced by a new 2.8 million gallon tank. As part of this project, grading for a future 2.8 million gallon Meadowlark Tank No. 4 will also occur. Site improvements include grading and clearing, landscaping, and installation of new 20" and 16" inlet/outlet piping.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 71084 **Funding Source:** 35% Fund 110 – Water Replacement

Work Order: 71084

65% Fund 120 - Water Capacity

**Comments:** The site was master planned during the 76-1 Assessment District to accommodate three tanks total. The final tank is not expected to be needed until 2021. At build-out, the Meadowlark Tanks will provide a total storage capacity of 8.35 million gallons.

**Operations Impact:** The project will increase capacity at the site by 1.55 million gallons with the construction of the new tank. Daily monitoring of water levels and conditions at the tank site is expected.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$123,000						\$123,000
Design	\$377,000		\$41,000				\$418,000
Construction			\$3,011,000	\$1,000,000			\$4,011,000
Total	\$500,000	\$0	\$3,052,000	\$1,000,000	\$0	\$0	\$4,552,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2003	Aug 2003	Mar 2004	Apr 2004	Jun 2013	Nov 2018	Sep 2019	Sep 2019

## **Capital Improvement Program Mountain Belle Pump Station**

**Description:** This project involves the construction of three 1,000 gallon-perminute pumps and 125 horsepower motors, along with all corresponding electronics, within a new building next to the existing Mountain Belle Reservoir. Approximately 1,800 feet of 16-inch connector pipe from the pump station to an existing 10" pipeline in the North Twin Oaks (1330') Pressure Zone will also be installed.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 71219 **Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** The Mountain Belle Pump Station is intended to serve as a completely redundant water supply to the new North Twin Oaks (1330') pump station. It will be sized to meet ultimate build-out demands in the North Twin Oaks 1330' Pressure Zone, the 1059' Pressure Zone, and the North 1228' Pressure Zone. A pad for this pump station has already been placed next to the Mountain Belle Reservoir (see picture above).

**Operations Impact:** Redundant pumping capacity to the North Twin Oaks Pressure Zone. Daily, routine monitoring and inspections of the pump station is expected, as are regular maintenance efforts and some infrequent repair work.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$10,000						\$10,000
Design	\$90,000					\$310,000	\$400,000
Construction						\$3,450,000	\$3,450,000
Total	\$100,000	\$0	\$0	\$0	\$0	\$3,760,000	\$3,860,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2006	Aug 2006	Feb 2007	Feb 2007	Apr 2022	May 2022	May 2023	May 2023

# **Capital Improvement Program Rock Springs Sewer Replacement**

**Description:** Abandonment and/or removal of approximately 2,500 feet of 8" VCP sewer main and 10 manholes within Rock Springs Road and adjacent greenbelt. This project will bring relief to a section of existing sewer pipe within a greenbelt drainage area that is currently operating beyond its design limits.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 90003 Funding Source: 45% Fund 210 – Sewer Replacement

Work Order: 090003 55% Fund 220 – Sewer Capacity

**Comments:** The 2500' of existing vitrified clay pipe (VCP) will be replaced by 2,700 feet of new PVC sewer main, including 16 new manholes and the rehabilitation of 4 existing manholes. This will eliminate an existing surcharging condition in the District's collection system between Woods Dr. and Hannigans Way within a greenbelt drainage area south of Rock Springs Rd. The 2008 Master Plan has identified this upgrade as project SP-5.

**Operations Impact:** Less inflow and infiltration into the collection system; reduced risk of sewer spilling. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$50,000						\$50,000
Design	\$475,000						\$475,000
Construction		\$2,640,000					\$2,640,000
Total	\$525,000	\$2,640,000	\$0	\$0	\$0	\$0	\$3,165,000

FY 2017/18 Budget Request - \$705,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2008	Jul 2008	Jan 2010	Feb 2010	Jul 2017	Aug 2017	Feb 2018	Feb 2018

## **Capital Improvement Program Encina Wastewater Authority FY 16/17**

**Description:** The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.



Project Manager: Tom Scaglione Department: General Manager

**Project:** 2017100001 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** These miscellaneous Encina Wastewater Authority capital projects are budgeted each year based on the District's 22.4% ownership share.

Operations Impact: No significant increase in costs or changes in efficiencies are anticipated from this project

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$1,384,000	\$650,000					\$2,034,000
Total	\$1,384,000	\$650,000	\$0	\$0	\$0	\$0	\$2,034,000

FY 2017/18 Budget Request - (\$835,000)

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009							Jun 2017

## **Capital Improvement Program MRF: On-site Generation of Sodium Hypochlorite**

**Description:** Replace the use of chlorine gas at the Meadowlark Water Reclamation Facility with onsite generation of sodium hypochlorite (bleach).



Project Manager: Ed Pedrazzi

Department: Engineering

**Project:** 2017100002 Funding Source: 100% Fund 210 – Sewer Replacement

Comments: The Meadowlark Water Reclamation Facility (MRF) currently uses 100% chlorine gas as a disinfectant in order to meet State regulations for reclaimed water. Chlorine gas is an acute hazard that presents a danger to District staff and the increasing number of residents in the immediate area. Use of this gas requires the District to maintain several expensive State and Federal safety programs, equipment, and a Hazardous Materials response team; requiring a considerable amount of staff time. The onsite generation of sodium hypochlorite removes the acute hazard of chlorine gas and replaces it with a mild form of bleach (0.8%) that removes the District's requirement to maintain the extensive safety programs for that site. Use of the bleach will not require a hazardous materials response in the event of a leak.

**Operations Impact:** Removal of an acute hazard. Reduction in regulatory requirements and staff time at the Meadowlark Reclamation Facility. Economic benefit of no longer needing to import chlorine gas. Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning			\$50,000				\$50,000
Design			\$200,000				\$200,000
Construction			\$50,000	\$1,700,000			\$1,750,000
Total	\$0	\$0	\$300,000	\$1,700,000	\$0	\$0	\$2,000,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2018	Sep 2018	Oct 2018	May 2019	Jun 2019	Nov 2019	Aug 2019

# Capital Improvement Program Richland Invert Replacement

**Description:** This project calls for the replacement of the existing 100-foot wastewater siphon pipeline that travels under San Marcos Creek from the Diamond Environmental Services parking lot south of Mission Road to the 18-inch Richland Interceptor. The existing 8-inch and 10-inch pipelines will be replaced with either a new 15-inch siphon to be located at the existing pipelines' location or by a new 15-inch gravity pipeline in Mission Road and a new crossing further to the west.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2012100002 Funding Source: 100% Fund 210 – Sewer Replacement

Work Order: 123749

**Comments:** The existing 8-inch and 10-inch invert pipelines were installed over 27 years ago and were originally designed to be temporary. Because of their size restrictions, they surcharge upstream gravity pipelines during peak flows. In addition, recent inspections by the District's collections crew have revealed damage to the existing pipe. This project crosses underneath San Marcos Creek, and staff anticipates environmental wetland permitting requirements. The 2008 Master Plan has identified this replacement as project SP-10.

**Operations Impact:** The project increases sewage handling capacity in the collections system and solves an existing sewer surcharge issue during daily peak and wet weather events. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

**Project Spending Plan** 

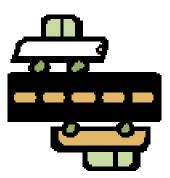
Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$13,000	\$12,000					\$25,000
Design			\$150,000				\$150,000
Construction			\$150,000	\$1,160,000			\$1,310,000
Total	\$13,000	\$12,000	\$300,000	\$1,160,000	\$0	\$0	\$1,485,000

FY 2017/18 Budget Request - \$350,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2011	Apr 2012	Jul 2018	Jul 2018	Apr 2019	May 2019	Jan 2020	Jan 2020

# **Capital Improvement Program Land Outfall Clearing & Access Road**

**Description:** The Land Outfall is located within easements for a significant portion of its length where it runs within the Encina Creek riparian area parallel to Palomar Airport Road in Carlsbad. The District is attempting to remove the overgrown vegetation within the easement and construct a drivable path to access the pipeline for maintenance and emergencies. Streambed alteration permitting and habitat mitigation are the major challenges associated with this project.



Project Manager: Rob Scholl

Department: Engineering

**Project:** 71177 **Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** Clearing for the access road impacts an estimated 1 acre of designated wetland at a cost of approximately \$600,000/acre. The Land Outfall is owned by the District and shares capacity in this stretch with the cities of Carlsbad and Vista and the Buena Sanitation District. The joint agreement requires them to pay their proportionate share of this maintenance activity. Approximate responsibility of cost:

Buena Sanitation District - 68% City of Carlsbad - 12% Vallecitos Water District - 20%

**Operations Impact:** Routine maintenance

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$250,000	\$600,000					\$850,000
Design	\$40,000						\$40,000
Construction	\$60,000	\$200,000					\$260,000
Total	\$350,000	\$800,000	\$0	\$0	\$0	\$0	\$1,150,000

FY 2017/18 Budget Request - \$205,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2006	Jul 2006	Jun 2017	Feb 2008	Jun 2017	Jul 2008	Jun 2018	Jun 2018

## Capital Improvement Program Water and Sewer Master Plan

**Description:** Master Plans are typically updated every 5 years because project priorities shift and land use agencies approve zoning changes in the Districts' boundaries. Since the adoption of the 2008 Master Plan, VWD's per capita water and wastewater demands have declined due to drought and the recession, and the City of San Marcos has approved several developments with zoning changes. VWD has also inked contracts for the purchase of treated water from the Olivenhain Water District and desalinated water directly from Poseidon Resources – both of which will likely shift capital project priorities. These reasons will trigger the need for a master plan update. This item is part of the VWD Strategic Plan – Strategic Focus Areas 1.3 and 6.4



Project Manager: Rob Scholl

Department: Engineering

**Project:** 2014100003 Funding Source: 50% Fund 120 – Water Capacity

50% Fund 220 – Sewer Capacity

**Comments:** An Environmental Impact Report will be prepared in conjunction with the master plan update. This document will detail the impacts, at a programmatic level, that the master plan projects may create on the community and the environment. The District's water and wastewater models will also be updated during this master plan update, and a water supply planning section that will analyze expansion of recycled water use will be included.

**Operations Impact:** Will identify new projects that will likely require frequent maintenance activities by Operations.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$950,000	\$100,000					\$1,050,000
Design	•						
Construction							
Total	\$950,000	\$100,000	\$0	\$0	\$0	\$0	\$1,050,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2013	Dec 2017					Dec 2017

# **Capital Improvement Program Old Questhaven Sewer Replacement**

**Description:** Installation of 1400 feet of 24" PVC sewer main in the old Questhaven Road right-of-way, along with 6 new manholes; abandonment of 935 feet of 21" VCP and 255 feet of 21" PVC temporary sewer pipe in the old Questhaven Road right-of-way; abandonment of 1470 feet of 24" DIP temporary sewer pipe in Rancho Santa Fe Road.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 80001 **Funding Source:** 77% Fund 210 – Sewer Replacement 23% Fund 220 – Sewer Capacity

**Comments:** This project will replace a section of existing temporary sewer pipe in the old Questhaven Road right-of-way. The new pipe section will be higher in elevation to connect to the permanent pipeline in Rancho Santa Fe Road and allow the temporary pipeline in both old Rancho Santa Fe Road and old Questhaven Road right-of-way and San Marcos Creek to be abandoned.

**Operations Impact:** Less inflow and infiltration into the collection system; abandonment of a temporary sewer pipeline. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$1,000					\$9,000	\$10,000
Design						\$75,000	\$75,000
Construction						\$750,000	\$750,000
Total	\$1,000	\$0	\$0	\$0	\$0	\$834,000	\$835,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2007	Jul 2007	Aug 2021	Sep 2021	Dec 2022	Jan 2023	Apr 2024	Apr 2024

# **Capital Improvement Program Expansion of the Men's Locker Room in Building B**

**Description:** Expansion of the men's locker room in Building B for Operations & Maintenance staff.



Project Manager: Ed Pedrazzi Department: Operations and Maintenance

**Project:** 2016100005 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

**Comments:** The Operations & Maintenance (O&M) men's locker room in Building B is no longer large enough to accommodate the number of employees utilizing it. The expansion will double the size of the locker room. The number of lockers, showers, sinks and urinals will also be doubled. This will provide adequate space for O&M staff to clean up and change uniforms.

**Operations Impact:** Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$140,000						\$140,000
Construction		\$670,000					\$670,000
Total	\$140,000	\$670,000	\$0	\$0	\$0	\$0	\$810,000

FY 2017/18 Budget Request - \$235,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015			Aug 2016	Apr 2017	Jul 2017	Jan 2018	Jan 2018

## **Capital Improvement Program Audiovisual Upgrade**

**Description:** Various audiovisual improvements to upgrade technology in the board room and several conference rooms and the training room.



**Department:** Information Technology Project Manager: Karla Fisher

**Project:** 2015100002 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

Comments: The audiovisual systems in the District Board Room, Training Room, and Conference Rooms have become outdated and were installed with the construction of Building A. This project will upgrade existing technology to accommodate televised Board of Director meetings and create a consistency between conference rooms and the training room. Phase I: Select a design consultant to determine upgrade requirements, design the audiovisual systems, and approximate cost. The design consultant will create RFP, assist with selection of a contractor, and oversee project through testing, training and completion. Phase II: Select contractor to implement design from Phase I.

**Operations Impact:** Routine Maintenance

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$45,000						\$45,000
Construction	\$455,000	\$250,000					\$705,000
Total	\$500,000	\$250,000	\$0	\$0	\$0	\$0	\$750,000

FY 2017/18 Budget Request - \$250,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
	Jul 2014	Jun 2017					Jun 2018

# Capital Improvement Program City of San Marcos Joint Projects

**Description:** This amount is set-aside to cover services rendered in conjunction with various City of San Marcos projects involving District infrastructure per the District/City of San Marcos Cost Sharing Agreement dated March 31, 2009. This includes District staff time involved in inspection and project management, as well as reimbursements to the City for District infrastructure relocations and adjustments.



Project Manager: Rob Scholl

Department: Engineering

Project: 90007 Funding Source: See Below

#### **Comments:**

Project:	Amount:	Source:
Rancho Santa Fe Rd Resurfacing Discovery St Improvements Misc. Relocations/Adjustments Armorlite Dr Discovery/Bent/Via Vera Cruz	\$85,000 \$550,000 \$70,000 \$35,000 \$10,000	Water/Sewer 55% / 45% Water/Sewer 90% / 10% Water/Sewer 75% / 25% Water/Sewer 80% / 20% Water/Sewer 100%
Total	\$750,000	

These projects are in conjunction with the City's Capital Improvement Plan.

**Operations Impact:** Normal maintenance for infrastructure.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$90,000	\$650,000		\$10,000			\$750,000
Total	\$90,000	\$650,000	\$0	\$10,000	\$0	\$0	\$750,000

FY 2017/18 Budget Request - \$80,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
						Jan 2020	Jan 2020

## Capital Improvement Program High Point Pipeline

**Description:** Approximately 2,800 feet of 12" PVC potable water pipeline is proposed to connect the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. This project also includes the construction of a pressure reducing valve to the 1567 Wulff Pressure Zone's hydraulic grade line. The High Point development is responsible for installation of an 8" pipeline as part of its development conditions, and the District will reimburse the developer for upsizing the pipeline to 12".



Project Manager: Rob Scholl

Department: Engineering

**Project:** 2013100006 Funding Source: 100% Fund 120 – Water Capacity

**Comments:** This pipeline provides an auxiliary feed from the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. And with the completion and acceptance of the High Point Hydro-pneumatic Pump Station, the District will have some limited ability to transfer potable water from the 920 Pressure Zone to the higher northern pressure zones that does not currently exist. The 2008 Master Plan has identified this pipeline as Project P-43.

**Operations Impact:** Annual and routine potable water pipeline maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction			\$700,000				\$700,000
Total	\$0	\$0	\$700,000	\$0	\$0	\$0	\$700,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2012					Oct 2018	Jun 2019	Jun 2018

# Capital Improvement Program District-wide Valve Replacement Program

**Description:** Replace broken or leaking valves throughout the District.



Project Manager: Kevin Anctil

Department: Construction

**Project:** 2016100004 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The valve crew has discovered many broken valves requiring replacement. This project targets 20 valves per year over four years.

**Operations Impact:** Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$350,000	\$175,000	\$175,000				\$700,000
Total	\$350,000	\$175,000	\$175,000	\$0	\$0	\$0	\$700,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015					Jul 2015	Jul 2019	Jun 2019

# Capital Improvement Program Northwest Lake San Marcos Sewer Replacement and Relining Project

**Description:** This project involves the replacement of approximately 1000 feet of existing 8-inch VCP sewer pipeline with new 8-inch PVC pipe. In addition, approximately 750 feet of adjacent VCP pipeline will be lined to extend its useful life. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.4



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2014100002 Funding Source: 100% Fund 210 – Sewer Replacement

Work Order: 167352

**Comments:** The sewer pipeline in the northwest Lake San Marcos area is being compromised due to lime leaching into the pipe. This pipe was installed between 1964 and 1971 and is reaching the end of its useful life. While lime damage warrants replacement of most of the pipe in this area, some pipeline can be relined instead to extend its life.

**Operations Impact:** Annual and routine sewer pipeline maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$2,000	\$3,000					\$5,000
Design		\$75,000	\$30,000				\$105,000
Construction			\$495,000				\$495,000
Total	\$2,000	\$78,000	\$525,000	\$0	\$0	\$0	\$605,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2016	Dec 2017	Jan 2018	Jan 2019	Feb 2019	Aug 2019	Feb 2018

# Capital Improvement Program Asset Management Replacement Schedule

**Description:** Create a prioritized Asset/Infrastructure replacement schedule for the District Facilities. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.2



Project Manager: James Gumpel Department: Engineering

**Project:** 2014100004 **Funding Source:** 50% Fund 110 – Water Replacement 50% Fund 210 – Sewer Replacement

Comments: The District's infrastructure is aging and proper planning requires an understanding of when, where, and how much replacing that infrastructure will cost. Proper preventative maintenance helps insure the District obtains the maximum beneficial life out of its infrastructure. The District has already taken steps towards this by implementing a computerized maintenance management system (CMMS) also known as Maximo to implement and track preventative, corrective, and emergency maintenance/repairs on all assets or infrastructure. This project will take the CMMS information and prioritize a replacement schedule as well as cost over the expected life of all assets/infrastructure.

### **Operations Impact:**

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$200,000	\$200,000	\$200,000			\$600,000
Design							
Construction							
Total	\$0	\$200,000	\$200,000	\$200,000	\$0	\$0	\$600,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2017	Jun 2020					Jun 2020

## **Capital Improvement Program Vulnerability Assessment Improvements**

**Description:** The District completed the Vulnerability Assessment as required by the Department of Homeland Security. Recommended improvements were identified and being phased in. Fiscal year 2014/15 purchases are for security devices and a 500 kW generator.



Project Manager: Jerome Janus Department: Engineering - Safety

**Project:** 71126 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

**Comments:** Implementing safety measures to mitigate vulnerabilities is an on-going process. Due to the highly confidential and sensitive nature of the assessment findings, specific improvements are not defined in this document. Security measures are implemented with the most vulnerable areas addressed first.

**Operations Impact:** Continual review of measures implemented and discovery of unidentified areas.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$336,700	\$111,000					\$447,700
Total	\$336,700	\$111,000	\$0	\$0	\$0	\$0	\$447,700

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2004							

## **Capital Improvement Program North Vista Pressure Reducing Station Upgrade**

**Description:** Upgrade the existing North Vista Pressure Reducing Station with electrical power and bring it up to current standards.



Project Manager: Jason Hubbard Department: Water Operations

**Project:** 2014100008 Funding Source: 100% Fund 110 – Water Replacement

Work Order: 133165

**Comments:** North Vista Pressure Reducing Station is one of the oldest in the District. VWD does not have a SCADA system at this site due to lack of electrical power. The station is one of the few remaining sites in the District without SCADA monitoring. The funds requested are for design and construction to upgrade the pressure reducing station to meet all current standards, including electrical power and SCADA monitoring equipment.

**Operations Impact:** Routine Maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$60,000	\$2,000					\$62,000
Construction		\$303,000					\$303,000
Total	\$60,000	\$305,000	\$0	\$0	\$0	\$0	\$365,000

FY 2017/18 Budget Request - \$123,000

Project Approval	Pla	nning	Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013			Jul 2013	Aug 2017	Sep 2017	Nov 2017	Nov 2017

# **Capital Improvement Program Lift Station 1 Wet Well Room Repairs**

**Description:** The room above the Lift Station No.1 wet well is in need of repairs due to the corrosion from the concentration of excessive hydrogen sulfide gases.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2017100004 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** To control noxious odors at the lift station, the main entrance to the wet well room was enclosed and carbon scrubbers added. The beneficial reduction in odors has had the resultant side effect of increased corrosion to all the metal, concrete, and masonry block surfaces within the room, including the ceiling, floors, walls, door jambs, and various fixtures due to the higher concentration of hydrogen sulfide gases. A combination of repairs, including polyurethane and epoxy coatings to the various surfaces and reinforcement of the ceiling, will prevent further deterioration.

**Operations Impact:** Reduced risk of the loss of structural integrity for the building and increased safety. Reduced maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$43,000						\$43,000
Construction	\$37,000	\$215,000					\$252,000
Total	\$80,000	\$215,000	\$0	\$0	\$0	\$0	\$295,000

FY 2017/18 Budget Request - \$0

Project Approval	Pla	nning	Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2016	Jul 2016	Jul 2016	Apr 2017	May 2017	Sep 2017	Sep 2017

## **Capital Improvement Program Rock Springs Valve Replacement**

**Description:** Replace the existing 12 inch and 14 inch valve cluster at Rock Springs Road and Bennet Avenue and associated piping. The valves are non-operational and the nearby pipeline has failed in recent years



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2016100007 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** This project will allow proper control of the water system and prevent further failures.

**Operations Impact:** The valves are non-operational. Operations and maintenance repair costs will be minimized at this location.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$15,000					\$15,000
Design	•		\$60,000				\$60,000
Construction			\$160,000	\$30,000			\$190,000
Total	\$0	\$15,000	\$220,000	\$30,000	\$0	\$0	\$265,000

FY 2017/18 Budget Request - \$15,000

Project Approval	Pla	nning	Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Apr 2018	Jun 2018	Jul 2018	Mar 2019	Apr 2019	Aug 2019	Aug 2019

# **Capital Improvement Program South Vista Pressure Reducing Station Upgrade**

**Description:** Replace the existing South Vista Pressure Reducing Station with a larger vault and bring it up to current standards.



Project Manager: Jason Hubbard Department: Water Operations

**Project:** 2014100007 Funding Source: 100% Fund 110 – Water Replacement

Work Order: 133166

**Comments:** South Vista Pressure Reducing Station is one of the oldest in the District. We do not have a SCADA system at this site due to lack of electrical power. The pressure station vault is extremely small with minimal working space. The station is one of the few remaining sites in the District without SCADA monitoring. The funds requested are for design and construction to replace the pressure reducing station with a new vault that meets all current standards, including electrical power and SCADA monitoring equipment.

**Operations Impact:** Routine Maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$60,000	\$3,000					\$63,000
Construction		\$192,000					\$192,000
Total	\$60,000	\$195,000	\$0	\$0	\$0	\$0	\$255,000

FY 2017/18 Budget Request - \$21,000

Project Approval	Pla	Planning		Design		ruction	Completion
	Begin	End	Begin	End	Begin	End	
Jul 2011			Jul 2013	Aug 2017	Sep 2017	Nov 2017	Nov 2017

## Capital Improvement Program Fire Services - Backflow Preventer Upgrades

**Description:** Replace single-check backflow prevention systems with double-check systems on fire services.



Project Manager: Kevin Anctil

Department: Construction

**Project:** 2017100005 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The District is responsible for several fire service backflow preventers in the distribution system that were installed prior to new District standards being adopted. The single-check backflow preventers that were installed are no longer an acceptable device and some have failed due to corrosion from being installed in an underground vault. The Construction department will replace 5 systems each year with an approved double-check backflow prevention system and bring the services above ground.

**Operations Impact:** Enhanced backflow prevention. Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
Total	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$250,000

FY 2017/18 Budget Request - \$0

Project Approval	Pla	nning	Des	sign	Construction		Completion
	Begin	End	Begin	End	Begin	End	

## Capital Improvement Program Via Vera Cruz Tank Hill Stabilization

**Description:** A side slope adjacent to the Via Vera Cruz Tank requires slope stabilization treatment.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2016100014 Funding Source: 100% Fund 110 – Water Replacement

Work Order: 162901

**Comments:** A portion of the existing slope adjacent to the Visa Vera Cruz Tank on District property is failing due to steep terrain and material composition. The foundation of a property line fence is being eroded and exposed and material washes down to the tank elevation. Routine clean-up of the area is done and falling rocks threaten to damage the tank. This project will apply a mesh or tensioned slope stabilization system to approximately 2200 SF of steep slope to prevent further failures and/or a debris barrier along a portion of the perimeter to catch failing rocks. Repairs to the property line fence will also be performed and landscaping repairs may be necessary.

**Operations Impact:** Reduced risk of damage to the tank from falling rocks. Eliminate clean-up of the area from debris. Maintain security of property with intact fence. Annual and routine monitoring of the slope.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design	\$8,000	\$10,000					\$18,000
Construction		\$127,000					\$127,000
Total	\$8,000	\$137,000	\$0	\$0	\$0	\$0	\$145,000

FY 2017/18 Budget Request - \$10,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Jan 2016	Mar 2016	Apr 2016	Mar 2018	Apr 2018	Jun 2018	Jun 2018

## Capital Improvement Program Fulton Road and NCTD Sewer Line Rehabilitation

**Description:** Two sewer line sections need rehabilitation and/or replacement to lengthen the life of the aging main line.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2016100011 Funding Source: 100% Fund 210 – Sewer Replacement

Work Order: 161280

Comments: Currently 2 sections, (1) a 600 foot section of 8 inch VCP located approximately 600 feet east on Fulton Road from the intersection with Richland Road, and (2) a 100 foot section of 8 inch DIP under North County Transit District's (NCTD) railroad tracks located 550 feet east of the intersection of the tracks with Woodland Parkway are in need of rehabilitation and/or replacement to restore pipe integrity. Due to extensive longitudinal cracking, a portion of the pipeline on Fulton Road will need to be replaced, however a majority can be rehabilitated using a Cured in Place Pipe (CIPP). Due to the location of the pipeline across the NCTD railroad, rehabilitation of the line will also use the CIPP method. These pipe sections have become compromised either due to age, material type, or ground settlement requiring rehabilitation/replacement. Significant costs will be accrued upon line failure if the sections of pipe are not rehabilitated or replaced.

**Operations Impact:** Restored or replace structural integrity and increased service life of sewer line sections.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning	\$5,000						\$5,000
Design	\$25,000	\$15,000					\$40,000
Construction		\$98,000					\$98,000
Total	\$30,000	\$113,000	\$0	\$0	\$0	\$0	\$143,000

FY 2017/18 Budget Request - \$0

<b>Project Approval</b>	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2016	Mar 2017	Apr 2017	Jul 2017	Aug 2017	Dec 2018	Dec 2018

# Capital Improvement Program Palos Vista Pump Station - Motor Replacement

**Description:** Replace the motors on all four pumps at Palos Vista Pump Station.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2016100008 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The existing pump motors have been in service for over 20 years. They are no longer efficient and should be upgraded to the new premium efficiency motors. The new motors will operate more efficiently and save on energy costs.

**Operations Impact:** Improved reliability and efficiency at Palos Vista Pump Station. Potential savings in electrical costs. Normal maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$54,000	\$32,000	\$32,000				\$118,000
Total	\$54,000	\$32,000	\$32,000	\$0	\$0	\$0	\$118,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015					Jul 2015	Jun 2019	Jun 2019

# **Capital Improvement Program Building B Laminate Floor Replacement**

**Description:** The flooring in B building is peeling up. To prevent trip hazards this project will thoroughly seal the concrete below and lay the new laminate.



Project Manager: Dennis Bowman Department: Warehouse/Purchasing

**Project:** 2017100009 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

Comments: Remove old flooring, seal concrete, and install new flooring.

**Operations Impact:** None

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$40,000					\$40,000
Total	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016							Jun 2018

# Capital Improvement Program Lake San Marcos Lift Station - Motor Replacement

**Description:** Replace outdated motors with new efficient motors.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2017100011 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** Motors at this site were installed almost nineteen years ago and have exceeded their useful life. Although they have been repaired or reconditioned over the years, it is cost effective at this time to purchase new Premium Efficiency motors to save on energy costs and increase reliability of operation.

**Operations Impact:** Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction	\$18,000	\$18,000					\$36,000
Total	\$18,000	\$18,000	\$0	\$0	\$0	\$0	\$36,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	

## **Capital Improvement Program HVAC Pump and Motor Replacement**

**Description:** There are two pumps that supply the cold water to the building for adequate temperature and proper operation. One motor had to be replaced in an emergency and the other is starting to fail.



Project Manager: Dennis Bowman Department: Warehouse/Purchasing

**Project:** 2017100016 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

**Comments:** Remove old pump and motor skid. Drain the system and install new unit to maintain proper operation of the HVAC system.

**Operations Impact:** None

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$20,000					\$20,000
Total	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000

FY 2017/18 Budget Request - \$0

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016							Jun 2018

# Capital Improvement Program Encina Wastewater Authority Five Year Plan

**Description:** The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.



Project Manager: Tom Scaglione Department: General Manager

**Project:** 2018100001 Funding Source: 77% Fund 210 – Sewer Replacement

23% Fund 220 - Sewer Capacity

Comments: These miscellaneous capital projects are budgeted each year

Operations Impact: No significant increase in costs or changes in efficiencies are anticipated from this project...

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$3,236,000	\$4,703,000	\$4,796,000	\$3,400,000	\$3,110,000	\$19,245,000
Total	\$0	\$3,236,000	\$4,703,000	\$4,796,000	\$3,400,000	\$3,110,000	\$19,245,000

FY 2017/18 Budget Request - \$19,245,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009						Jun 2021	

# **Capital Improvement Program Elser Lane Water Line Improvements**

**Description:** Project will insure reliability and improve water quality for residents along Elser Lane by transferring water services to a new 6" distribution main instead of the existing 18" transmission main.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2018100002 Funding Source: 100% Fund 110 – Water Replacement

Comments: An existing 18" steel (CML&C) transmission main between Rees Road and Rock Springs Road was installed in 1956. This line runs between homes, underneath structures, and in backyards where access is limited. Should repairs need to be made to this line, there is a greater chance of damage to property owners. This line also serves approximately 21 residential meters. This project will bring this area into District standards by extending new 6" distribution water lines on Elser Lane to service residents with new water meters. New connections to existing water lines in McLees Court will create a loop in the water supply system, insuring reliability of service and improving water quality. This project also offsets future costs to relocate the water main under the Rees Road Water Line Project.

**Operations Impact:** Improve reliability and water quality. Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$15,000	\$15,000	\$60,000			\$90,000
Design			\$50,000	\$100,000			\$150,000
Construction				\$250,000	\$1,275,000		\$1,525,000
Total	\$0	\$15,000	\$65,000	\$410,000	\$1,275,000	\$0	\$1,765,000

FY 2017/18 Budget Request - \$1,765,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	May 2018	Sep 2018	Oct 2018	Oct 2019	Nov 2018	Jun 2019	Jun 2019

## **Capital Improvement Program Schoolhouse Tank Refurbishment**

**Description:** Schoolhouse Tank requires interior refurbishment.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2018100003 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The existing interior lining of the 2.4 MG tank has deteriorated and requires full refurbishment. This project will remove the existing lining and install a new interior lining. Repairs to the ceiling rafters and equipment upgrades may also be necessary.

Operations Impact: Prevent further delamination of the existing lining. Routine maintenance

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$5,000					\$5,000
Design		\$40,000					\$40,000
Construction		\$630,000					\$630,000
Total	\$0	\$675,000	\$0	\$0	\$0	\$0	\$675,000

FY 2017/18 Budget Request - \$675,000

<b>Project Approval</b>	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jul 2017	Jul 2017	Aug 2017	Oct 2017	Jan 2018	May 2018	May 2018

# Capital Improvement Program Las Posas 10-inch Water Main Replacement

**Description:** Replace 495 feet of existing 10" ACP pipe along Las Posas Road from Linda Vista Drive to Stone Drive.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2018100004 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The 10" ACP water main along Las Posas Road from Linda Vista Drive to Stone Drive is aging and in need of replacement. It has experienced a break in recent years and control valves associated with this water main are non-operational. The replacement will involve crossing underneath an existing double reinforced box culvert with a new steel casing.

**Operations Impact:** Prevent future breaks. Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$15,000					\$15,000
Design			\$25,000				\$25,000
Construction			\$540,000				\$540,000
Total	\$0	\$15,000	\$565,000	\$0	\$0	\$0	\$580,000

FY 2017/18 Budget Request - \$580,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jan 2018	Jun 2018	Jul 2018	Dec 2018	Jan 2019	Mar 2019	Mar 2019

# **Capital Improvement Program Stargaze Court Water Line Replacement**

**Description:** Replace approximately 729 LF of existing 8" water line in Stargaze Court. The pipeline has failed numerous occasions over the past few years due to excessive corrosion and more failures are anticipated due to highly corrosive subsurface conditions.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2018100005 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** This project will prevent the existing pipeline from further failure due to corrosion by replacing the ductile iron pipe with a non-corrosive pipe material.

**Operations Impact:** The existing waterline is corroding and subject to replacement. Operations and maintenance repair costs will be minimized at this location.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Total
Planning		\$20,000					\$20,000
Design		\$60,000					\$60,000
Construction		\$320,000					\$320,000
Total	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000

FY 2017/18 Budget Request - \$400,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jul 2017	Aug 2017	Jul 2017	Sep 2017	Nov 2017	Feb 2018	Feb 2018

# **Capital Improvement Program Palos Vista Pump Station – Generator**

**Description:** Install new permanent generator with manual transfer switch.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100006 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** Palos Vista Pump Station has no permanent generator for emergency power. To insure reliability to this facility, an APCD/CARB compliant generator will need to be installed at the station. Improvements will also include an manual transfer switch, enclosure, concrete pad, and conduit.

**Operations Impact:** Provide reliability to the pump station in the event of a power failure. Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 19/20	FY 20/21	FY 21/22	Thereafter	Total
Planning		\$3,000					\$3,000
Design		\$27,000					\$27,000
Construction		\$295,000					\$295,000
Total	\$0	\$325,000	\$0	\$0	\$0	\$0	\$325,000

FY 2017/18 Budget Request - \$325,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2017	Aug 2017	Sep 2017	Jan 2018	Feb 2018	May 2018	May 2018

# **Capital Improvement Program Solar Panel Invertor Replacement**

**Description:** Replace two existing invertors with new Solectria invertors to insure proper operation and solar efficiency.



Project Manager: Dennis Bowman Department: Warehouse/Purchasing

**Project:** 2018100007 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

**Comments:** Our solar panel invertors are very old and the company that made them went out of business. It is very difficult to find the necessary materials to make repairs which costs the district money when they are down. We would like to replace them with updated invertors to insure proper operation and energy efficiency.

**Operations Impact:** Engineering impact for larger contract preparation Warehouse impact when quotes are gather and meetings with contractors.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$10,000					\$10,000
Design		\$20,000					\$20,000
Construction		\$265,000					\$265,000
Total	\$0	\$295,000	\$0	\$0	\$0	\$0	\$295,000

FY 2017/18 Budget Request - \$295,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Jul 2017	Jun 2018	Jul 2017	Jun 2018	Jul 2017	Jun 2018	Jun 2018

# **Capital Improvement Program Laurels Sewer Lining**

**Description:** Clean and repair of approximately 1,130 feet of 8" sewer lines in Acacia Street, Sequoia Street and adjacent District easements.



Project Manager: Eric Garcia

Department: Engineering

**Project:** 2018100008 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** The 8" sewer line in Acacia Street, Sequoia Street and in adjacent District easements are in need of cleaning and repairs. Cleaning, CIPP liner, and point repairs are necessary.

#### **Operations Impact:**

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$5,000					\$5,000
Design	•	\$15,000					\$15,000
Construction		\$190,000					\$190,000
Total	\$0	\$210,000	\$0	\$0	\$0	\$0	\$210,000

FY 2017/18 Budget Request - \$210,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jul 2017	Sep 2017	Oct 2017	Feb 2018	Mar 2018	May 2018	May 2018

# **Capital Improvement Program MRF - Replace the Influent Pumps & Motors**

**Description:** Replacement of the three influent dry-pit submersible pump & motor units with vertical, modular type pump & motor units.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100009 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** The current dry-pit submersible pump units have to be delivered to a facility that specializes in the repair of sealed pump units. A modular vertical type pump & motor unit can be disassembled, serviced and repaired by District maintenance staff. This reduces repair costs and allows for less down time of the equipment.

**Operations Impact:** Reduced repair costs and down time. Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$65,000	\$65,000	\$65,000			\$195,000
Total	\$0	\$65,000	\$65,000	\$65,000	\$0	\$0	\$195,000

FY 2017/18 Budget Request - \$195,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2020

# Capital Improvement Program Nursery Valve Relocation

**Description:** Relocate the 16" and 18" control valves for the RSF-MRF Conveyance and Emergency Bypass sewer line out of Rancho Santa Fe Road.



Project Manager: Jason Hubbard Department: Engineering

**Project:** 2018100010 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** Control valves in Rancho Santa Fe Road, south of Via Cancion, located at the junction between the 18" RSF-MRF Conveyance sewer pipeline and the 16" Emergency Bypass sewer pipeline require full lane shutdown of southbound traffic on Rancho Santa Fe Road. Additionally, the 18" gate valve is no longer functioning. Project will relocate the 18" gate valve to the southside of Redwing Street and the 16" gate valve to the District's easement off Brighton Glen Road. Double sweep cleanouts will be installed upstream of the 16" gate valve to assist in routine cleaning and maintenance.

**Operations Impact:** Reduce traffic control costs and improve safety. Routine maintenance.

### **Project Spending Plan**

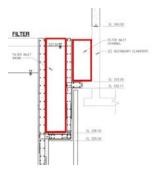
Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Total
Planning							
Design		\$15,000					\$15,000
Construction		\$175,000					\$175,000
Total	\$0	\$190,000	\$0	\$0	\$0	\$0	\$190,000

FY 2017/18 Budget Request - \$190,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017			Jul 2017	Sep 2017	Oct 2017	Dec 2017	Dec 2017

# **Capital Improvement Program MRF - Tertiary Influent Chamber Repairs**

**Description:** The Tertiary Influent Chamber at the Meadowlark Water Reclamation Facility (MRF) requires repairs to the protective coating.



Project Manager: Dawn McDougle Department: Meadowlark Reclamation Facility

Project: 2018100011 Funding Source: 100% Fund 250 - Reclaimed

**Comments:** The existing high solids epoxy, lining the MRF Tertiary Influent Chamber, is failing and in need of repair. The chamber transitions Secondary wastewater effluent to the Tertiary Filter basins. Using bypass methods, the chamber's protective lining will need to be repaired, including any support brackets and piping, during the low flow season.

**Operations Impact:** Repairs to the coating will maintain the integrity of the concrete structure.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$115,000					\$115,000
Total	\$0	\$115,000	\$0	\$0	\$0	\$0	\$115,000

FY 2017/18 Budget Request - \$115,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Aug 2017	Aug 2017	Sep 2017	Nov 2017	Dec 2017	Jan 2018	Jan 2018

## **Capital Improvement Program Sewer Replacement and I&I Repairs**

**Description:** During the course of the year, unexpected damage and emergency repairs are needed. This budget item sets aside money to perform necessary repairs.



Project Manager: Eric Garcia Department: Systems Collection

**Project:** 2018100012 Funding Source: 100% Fund 210 – Sewer Replacement

**Comments:** These funds will only be used after review and approval by the District Engineer and the Operations and Maintenance Manager.

**Operations Impact:** None.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$100,000					\$100,000
Total	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000

FY 2017/18 Budget Request - \$100,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# Capital Improvement Program South Lake - Facility Upgrades

**Description:** Upgrade the facilities at South Lake to comply with state regulations.



Project Manager: Kevin Anctil

Department: Construction

**Project:** 2018100013 Funding Source: 100% Fund 110 – Water Replacement

Comments: South Lake has not been used for potable water storage since 1984, but the pipeline into the lake is still connected to the distribution system. We have been unable to correct this because the sluice gate on the dam has not been operational. The sluice gate was recently replaced and we can now disconnect the lake from the potable distribution system. A section of pipe will be removed just downstream from the dam with new valves and blind flanges installed in case a future connection is desired. A new drain valve will be installed for the lake and the leak pumping system will be relocated above ground. The facility upgrades are necessary to comply with state regulations regarding the operation of South Lake Dam.

**Operations Impact:** Removal of a potential cross-connection to the distribution system, enhanced operation of the lake, and compliance with state regulations.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$95,000					\$95,000
Total	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000

FY 2017/18 Budget Request - \$95,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# **Capital Improvement Program Replace Roofs on Equipment Storages**

**Description:** Replace roofs on the car wash, fuel island, and two equipment storages with more durable metal roofing.



Project Manager: Dennis Bowman Department: Warehouse/Purchasing

**Project:** 2018100014 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

**Comments:** The fiberglass corrugated roofing is 22 years old and and needs to be replaced because it is a safety concern.

**Operations Impact:** Warehouse and Administrative impact for quoting and contract write up/organization.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning		\$5,000					\$5,000
Design		\$2,000					\$2,000
Construction		\$70,000					\$70,000
Total	\$0	\$77,000	\$0	\$0	\$0	\$0	\$77,000

FY 2017/18 Budget Request - \$77,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Jul 2017	Jun 2018	Jul 2017	Jun 2018	Jul 2017	Jun 2018	Jun 2018

## Capital Improvement Program Coronado Hills Chlorine Injection System

**Description:** Installation of a calcium hypochlorite injection system at Coronado Hills Tank for residual maintenance and control of nitrification.



Project Manager: Shawn Askine Department: Water Operations

**Project:** 2018100015 Funding Source: 100% Fund 110 – Water Replacement

Comments: Coronado Hills Tank is one of our reservoirs that consistently experiences problems with water quality due to its large size and low demand conditions. Water System Operators are required to add additional chlorine to this reservoir on a weekly basis for at least nine months of the year. This requires significant staff time and addition of chlorine in an inefficient process. The chlorine injection equipment will allow operators to load the equipment with chlorine tablets and then use the SCADA computer control systems to treat the reservoir during the pumping cycle. This will allow for an improved mixing of the chlorine in the reservoir and reduce staff time. An online chlorine analyzer will also be installed at this location to monitor the water quality and transmit the data into our Water Operations control room.

**Operations Impact:** Improved water quality within the reservoir and reduced staff time.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$65,000					\$65,000
Total	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000

FY 2017/18 Budget Request - \$65,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# Capital Improvement Program Building A Kitchens

**Description:** Remove and replace old counters with higher grade materials and replace the floor with industrial grade laminate.



Project Manager: Dennis Bowman Department: Warehouse/Purchasing

**Project:** 2018100016 Funding Source: 51% Fund 110 – Water Replacement

49% Fund 210 - Sewer Replacement

Comments: The Building A kitchen and kitchenettes are roughly 20 years old and experience daily use.

**Operations Impact:** None

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$65,000					\$65,000
Total	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000

FY 2017/18 Budget Request - \$65,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# **Capital Improvement Program Refurbish Pumps at North Twin Oaks Pump Station**

**Description:** Refurbish three 4-stage vertical turbine pumps and motors.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100017 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** It is industry standard to inspect and refurbish vertical turbine pumps every 7 to 10 years. These pumps have been in service for approximately 10 years. A refurbishment of the pumps and motors will extend the life of the equipment and maintain peak operating efficiency.

**Operations Impact:** Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$63,000					\$63,000
Total	\$0	\$63,000	\$0	\$0	\$0	\$0	\$63,000

FY 2017/18 Budget Request - \$63,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# **Capital Improvement Program Wulff Pump Station Pumps & Motors**

**Description:** Remove and refurbish all three 5-stage vertical turbine pumps and motors.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100018 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** It is industry standard to inspect and refurbish vertical turbine pumps every 7 to 10 years. These pumps have been in service for approximately 8 years. A refurbishment of the pumps and motors will extend the life of the equipment and maintain peak operating efficiency.

**Operations Impact:** Improved efficiency. Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$60,000					\$60,000
Total	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000

FY 2017/18 Budget Request - \$60,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# Capital Improvement Program South Lake Pump Station Valves

**Description:** Replace the check valves and plug valves on pump #1 and #2.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100019 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The existing check valves are 35 years old and need replacing. The plug valves are the same age and no longer operate in isolating the pumps when maintenance and service is required.

**Operations Impact:** Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$45,000					\$45,000
Total	\$0	\$45,000	\$0	\$0	\$0	\$0	\$45,000

FY 2017/18 Budget Request - \$45,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# Capital Improvement Program Solar Panels at Poinsettia Odor Control Injection

Description: Install solar panels at Poinsettia odor control injection station.



Project Manager: Eric Garcia Department: Systems Collection

**Project:** 2018100020 Funding Source: 100% Fund 220 – Sewer Capacity

**Comments:** The power supplying the station was intended to be temporary 13 years ago while testing the site's effectiveness. A cost effective permanent power source needs to be installed. Connecting to the power utility would be extremely expensive. Installing solar panels severs the District's dependency on the City of Carlsbad's lift station as a power source.

**Operations Impact:** Routine maintenance.

### **Project Spending Plan**

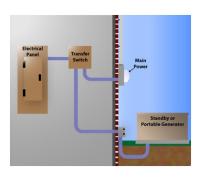
Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$35,000					\$35,000
Total	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000

FY 2017/18 Budget Request - \$35,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# Capital Improvement Program Admin Emergency Generator - Auto Transfer Switch

**Description:** Replace auto transfer switch that facilitates emergency power from the standby generator to dedicated emergency circuits within the Administrative facilities/buildings during planned and unplanned power outages.



Project Manager: Robert Salazar Department: Mechanical/Electrical

**Project:** 2018100021 Funding Source: 50% Fund 110 – Water Replacement

50% Fund 210 – Sewer Replacement

**Comments:** The existing auto transfer switch is outdated and no longer supported by the manufacturer. The reliability of the switch is in question as electronic components have failed recently. A new auto transfer switch will ensure the reliability of having emergency power available when required.

**Operations Impact:** Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$30,000					\$30,000
Total	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000

FY 2017/18 Budget Request - \$30,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

## **Capital Improvement Program Gates for Twin Oaks Reservoir Access Road**

**Description:** Install solar powered automatic gates on the Twin Oaks Reservoir access road.



Project Manager: Ed Pedrazzi Department: Operations and Maintenance

**Project:** 2018100022 Funding Source: 100% Fund 120 – Water Capacity

Comments: The Twin Oaks Reservoir access road currently has a large, pole type gate at each end that is designed for occasional use. District staff and vendors routinely use El Paso Alto Road to access the Twin Oaks Reservoir facility. It was recently discovered that El Paso Alto is not a county owned road and is a private road owned by the surrounding nursery. The new gates will allow staff easy access to the District facilities and keep them and our vendors off of the private road. The gate motors and controls will be solar powered which will save the cost of running power to the two gates. The gates will also have a strobe sensor which will provide the fire department emergency access to our facility.

**Operations Impact:** Routine maintenance.

### **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$25,000					\$25,000
Total	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

FY 2017/18 Budget Request - \$25,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

# **Capital Improvement Program Palomar Tank - Valve Replacement**

**Description:** Replacement of a 16" gate valve at Palomar Tank.



Project Manager: Shawn Askine Department: Water Operations

**Project:** 2018100023 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The 16" gate valve used to isolate the tank does not operate. We are repairing the asphalt at this site and need to replace the valve before that project begins.

**Operations Impact:** Ability to isolate the tank. Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$25,000					\$25,000
Total	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

FY 2017/18 Budget Request - \$25,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

## Capital Improvement Program Mountain Belle Tank - Valve Replacement

**Description:** Replacement of two 12" gate valves at Mountain Belle Tank.



Project Manager: Shawn Askine Department: Water Operations

**Project:** 2018100024 Funding Source: 100% Fund 110 – Water Replacement

**Comments:** The two 12" butterfly valves used to isolate the tank do not operate. We are repairing the asphalt at this site and need to replace the valves before that project begins. We will replace the two butterfly valves with gate valves which provide better isolation.

**Operations Impact:** Ability to isolate the tank. Routine maintenance.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning							
Design							
Construction		\$20,000					\$20,000
Total	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000

FY 2017/18 Budget Request - \$20,000

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

## **Capital Improvement Program Office Wall for Senior Construction Workers**

**Description:** Build a wall for the Senior Construction Worker office.



Project Manager: Ed Pedrazzi Department: Operations and Maintenance

**Project:** 2018100025 Funding Source: 50% Fund 110 – Water Replacement

50% Fund 210 – Sewer Replacement

**Comments:** The current office for the two Senior Construction Workers does not have a wall that separates them from the staff traveling through the Operations building. This is very distracting and disruptive when they are trying to complete their daily computer work. This project will provide a wall for the office and create a hallway for other staff to use when accessing the Construction crew room.

**Operations Impact:** Improved work environment for Senior Construction Workers.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 21/22 & Thereafter		Total
Planning							
Design							
Construction		\$17,000					\$17,000
Total	\$0	\$17,000	\$0	\$0	\$0	\$0	\$17,000

FY 2017/18 Budget Request - \$17,000

Project Approval	Planning		Des	sign	Const	ruction	Completion		
	Begin	End	Begin	End	Begin End				
Jul 2017							Jun 2018		

# **Capital Improvement Program Office Wall for Application Specialist Staff**

Description: Build a wall for the Application Specialist staff



Project Manager: Karla Fisher Department: Information Technology

**Project:** 2018100026 Funding Source: 50% Fund 110 – Water Replacement

50% Fund 210 – Sewer Replacement

**Comments:** The current work area for the two Application Specialists does not have a wall that separates them from the main hallway. These positions work with confidential district, employee and customer data as part of their role supporting the business application infrastructure.

**Operations Impact:** Application Specialist staff work with confidential district, employee and customer data as part of their role supporting the district's business application software enterprise.

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21 FY 21/22 & Thereafter		Total
Planning							
Design							
Construction		\$17,000					\$17,000
Total	\$0	\$17,000	\$0	\$0	\$0	\$0	\$17,000

FY 2017/18 Budget Request - \$17,000

Project Approval	Planning		Des	sign	Const	ruction	Completion		
	Begin	End	Begin	End	Begin End				
Jul 2017							Jun 2018		

# Capital Improvement Program Future Projects

**Description:** This amount is set-aside to cover projects planned within the next five years with a start date later than the current fiscal year..



Project Manager: Jason Hubbard Department: Engineering

Project: TBA Funding Source: See Below

Project:	Amount:	Source:
El Norte Parkway Water Line Extension	10,530,000	100% Fund 110 – Water Replacement
Rees Road 18" Water Line Relocation	5,780,000	100% Fund 110 – Water Replacement
Tres-Amigos Water Line Replacement Phase 1	2,395,000	100% Fund 110 – Water Replacement
Camino de Amigos Sewer Replacement	1,363,000	45% Fund 210 – Sewer Replacement, 55% Fund 220 – Sewer Capacity
Sage Canyon Tank Refurbishment	890,000	100% Fund 110 – Water Replacement
Deer Springs Pump Station Improvements	555,000	100% Fund 120 – Water Capacity
Deer Springs Tank No.2	520,000	100% Fund 120 – Water Capacity
Coronado Hills Tank Exterior Refurbishment	310,000	100% Fund 110 – Water Replacement
Coggan Pump Station - Generator	285,000	100% Fund 120 – Water Capacity
Richland I Tank Exterior Refurbishment	225,000	100% Fund 110 – Water Replacement
Total	\$22,853,000	

**Comments:** These projects are part of the District's capital budget beginning after fiscal year 2017-18.

**Operations Impact:** Normal Maintenance for infrastructure

## **Project Spending Plan**

Project Phase	Previous Spending	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22 & Thereafter	Total
Planning			\$460,000	\$5,000	\$58,000	\$460,000	\$983,000
Design			\$220,000	\$170,000	\$100,000	\$1,315,000	\$1,805,000
Construction			\$1,130,000	\$1,015,000	\$1,205,000	\$16,715,000	\$20,065,000
Total	\$0	\$0	\$1,810,000	\$1,190,000	\$1,363,000	\$18,490,000	\$22,853,000

FY 2017/18 Budget Request - \$22,853,000.00

Project Approval	Planning		Design		Const	ruction	Completion		
	Begin	End	Begin	End	Begin	End			
					Jan 2019	Jun 2026	Jun 2026		

## 2017-18 CAPITAL BUDGET - EASEMENTS, VEHICLES & EQUIPMENT SCHEDULE

EASEMENTS							
Requesting				Funding	Source:		Total
Dept.	Description	Project #		Water	Sewer		Cost
Development Services: Easement		2018100027			\$ 50,000	\$	50,000
VEHICLES/MOBILE EQU	UIPMENT						
Existing			New or	Funding	Source:		Total
Vehicle #	Description	Project #	Replacement	Water	Sewer	_	Cost
Construction:							
Peterbilt 367 10 Wh	eeler Dump Truck & Construction Bed	2018100028	New	199,000			199,000
217 Ford-F550 Super D	uty	2018100029	Replacement	62,000			62,000
Mechanical/Electrical:							
172 Ford-F550 2WD Ch	nassis with Service Body and Crane	2018100030	Replacement	61,700	59,300		121,000
Collections:							
Water Truck - Mode	el 108SD with ISL Cummins	2018100031	Replacement		101,000		101,000
Meadowlark Facility:			1		,		,
Forklift		2018100032	New		36,000		36,000
Water Operations:		2010100022	1.011		20,000		20,000
219 Ford F-150 Super	Cab XI.	2018100033	Replacement	33,000			33,000
Buildings and Grounds		2010100033	replacement	55,000			33,000
170 Ford Think Cart		2018100034	Replacement	7,600	7,400		15,000
170 Ford Think Cart		2018100034	Replacement	7,000	7,400	_	13,000
TOTAL VEHICLES						\$	567,000
FACILITIES AND EQUIP	PMENT						
Requesting			New or	Funding	Source:		Total
Dept.	Description	Project #	Replacement	Water	Sewer		Cost
Collections:							
Poly Chemical Tank	c - 6,500 Gallon for Lift Station 1	2018100035	New		45,000		45,000
252 CCTV Transporter		2018100036	Replacement		26,000		26,000
Water Operations:			1		,		,
-	l Disenfection Trailer	2018100037	New	45,000			45,000
Meadowlark Facility:				.,			.,
Chemical Mixer		2018100038	New		35,000	\$	35,000
Augers Rotating A	Assemblies (2)	2018100039	Replacement		16,000	4	16,000
Turbidity Meters		2018100040	Replacement		18,000		18,000
Construction:							
	e Toilet with Hand Wash Station	2018100041	Replacement	8,200	7,800		16,000
TOTAL FACILITIES ANI	) FOUIPMENT		-			\$	201,000
TOTAL PACILITIES AND	Lyon meni					φ	201,000
VEHICLES & EQUIPME	NIT TOTAL					ø	010 000
VEHICLES & EQUIPME	NI IUIAL					Ф	818,000

#### DEBT SERVICE BUDGET FOR THE YEAR ENDING JUNE 30, 2018

	Water				Wastewater				
	Repla	cement	_ (	Capacity	Replacement		Capacity		Total
2005 COP & 2015 Refunding									
Outstanding principal as of July 1, 2017 <sup>(1)</sup>	\$	-	\$ 2	24,061,100	\$	_	\$ 23,163,900	\$	47,225,000
June 23, 2016 Principal Transfer to Trustee		-		(973,150)			(936,850	)	(1,910,000)
Outstanding principal as of July 1, 2018	\$		\$ 2	23,087,950	\$		\$ 22,227,050	\$	45,315,000
2008 Private Placement (2)									
Outstanding principal as of July 1, 2017	\$	-	\$	=	\$	-	\$ 4,600,000	\$	4,600,000
2016/17 Principal Payments		-					(400,000	)	(400,000)
Outstanding principal as of June 30, 2018	\$		\$		\$		\$ 4,200,000	\$	4,200,000
2012 Debt <sup>(3)</sup>									
Outstanding principal as of July 1, 2017	\$	-	\$	-	\$	_	\$ 4,434,000	\$	4,434,000
2016/17 Principal Payments		-					(702,000	)	(702,000)
Outstanding principal as of June 30, 2018	\$		\$		\$		\$ 3,732,000	\$	3,732,000
2017/18 Debt Service Budget									
2005 COP & 2015 Revenue Refunding principal	\$	-	\$	973,150	\$	-	\$ 936,850	\$	1,910,000
2005 COP & 2015 Revenue Refunding interest		-		1,170,320		-	1,126,680		2,297,000
2008 Private Placement - principal		-		-		-	400,000		400,000
2008 Private Placement - interest		-		-		-	49,000		49,000
2012 Debt - principal		-		-		-	702,000		702,000
2012 Debt - interest				-		_	81,000		81,000
Total 2017/18 Debt Service Budget	\$	-	\$	2,143,470	\$		\$ 3,295,530	\$	5,439,000
Projected Debt Service Coverage Ratio (4)									286%
Excluding Capital Facility Fees									218%
Excluding Capital Facility Fees and Property Tax									149%

<sup>(1)</sup> The 17/18 principal payment on the refunding bonds is due to bondholders on July 1, 2017. The District is obligated to transfer the payment before June 30, 2016, to a restricted account maintained by the Trustee, and, therefore, was deducted from the projected July 1, 2017 balance presented in the Reserve Budget.

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Days of Operating Expenses in Unrestricted Cash and Investments

<sup>(2)</sup> Cash and corresponding amounts of debt were transferred from replacement funds to restricted capital facility funds to reduce deficit balances.

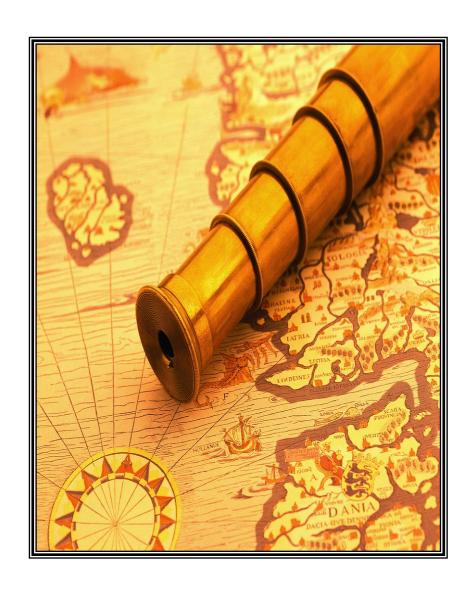
<sup>(2)</sup> The District and Union Bank of California executed an \$8 million tax-exempt private placement with variable rate interest tied to the LIBOR. The District has the option of changing the LIBOR term. The current term is six months. The current rate is 1.31767%. The proceeds partially restored a deficit balance in the restricted wastewater capacity fund from cash funding construction of the Encina Wastewater Authority Phase V expansion.

<sup>(3)</sup> The District issued bonds on December 21, 2012, to fund the increased capacity portions of San Marcos Interceptor and Linda Vista Sewer projects. The bonds have a 1.98% interest rate over the 10-year term.

<sup>(4)</sup> Per the 2005 Certificate of Participation official statement, the District is required to maintain a debt service coverage ratio of 1.15. Debt service coverage ratios are presented above inclusive and exclusive of capital facilities fees to demonstrate the District's ability to cover debt service above the required minimum. Capital facility fees are included in the official statement's definition of "Net Revenues".

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# 2017-18 LONG-RANGE PLANNING



## RESERVE BUDGET FOR THE YEAR ENDING JUNE 30, 2018

	110 Wa	nter 120	210 Waste	ewater 220	
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2017 Balance	\$ 29,729,000	\$ (10,607,000)	\$ 45,163,000	\$ (7,876,000)	\$ 56,409,000
Revenues and Transfers In		, , , ,		, , , ,	
Operating Transfers	1,023,000	-	6,426,000	_	7,449,000
Grant Proceeds	-	-	132,000	206,000	338,000
Capital Facility Fees	_	1,522,000	-	2,149,000	3,671,000
Property Tax	1,169,000	-	928,000	· -	2,097,000
RDA pass-through	800,000	-	800,000	-	1,600,000
Investment Earnings	315,000	(122,000)	492,000	(110,000)	575,000
Payment on Land Sale to City	74,000		74,000		148,000
Available Balance	33,110,000	(9,207,000)	54,015,000	(5,631,000)	72,287,000
Less 17/18 Appropriations and Transfers Out					
Encina Wastewater Authority Five Year Plan	_	-	3,232,000	4,000	3,236,000
Rock Springs Sewer Replacement	-	-	1,188,000	1,452,000	2,640,000
San Marcos Interceptor	-	-	496,000	1,104,000	1,600,000
Land Outfall Clearing & Access Road	-	-	800,000	-	800,000
Schoolhouse Tank Refurbishment	675,000	-	-	-	675,000
Expansion of the Men's Locker Room in Building B	341,700	-	328,300	-	670,000
City of San Marcos Joint Projects	397,000	-	253,000	-	650,000
Encina Wastewater Authority FY 16/17	-	-	650,000	-	650,000
Vehicles	363,000	-	204,000	-	567,000
Stargaze Court Water Line Replacement	400,000	-	-	-	400,000
Montiel Gravity Outfall	-	-	171,000	209,000	380,000
Palos Vista Pump Station – Generator	325,000	-	-	-	325,000
North Vista Pressure Reducing Station Upgrade	305,000	-	-	-	305,000
Solar Panel Invertor Replacement	150,000	-	145,000	-	295,000
Audiovisual Upgrade	127,000	-	123,000	-	250,000
Lift Station 1 Wet Well Room Repairs	-	-	215,000	-	215,000
Laurels Sewer Lining	-	-	210,000	-	210,000
Equipment	53,000	-	148,000	-	201,000
Asset Management Replacement Schedule	100,000	-	100,000	-	200,000
South Vista Pressure Reducing Station Upgrade	195,000	-	-	-	195,000
Nursery Valve Relocation	175.000	-	190,000	-	190,000
District-wide Valve Replacement Program	175,000	-	-	-	175,000
Via Vera Cruz Tank Hill Stabilization	137,000	-	115.000	-	137,000
MRF - Tertiary Influent Chamber Repairs	-	-	115,000	-	115,000
Fulton Road and NCTD Sewer Line Rehabilitation	- 57,000	-	113,000	-	113,000
Vulnerability Assessment Improvements Water and Sewer Master Plan	57,000	-	54,000	50,000	111,000
Sewer Replacement and I&I Repairs	-	50,000	100,000	50,000	100,000 100,000
Miscellaneous Projects	635,000	25,000	338,000	122 000	
Fund OPEB Trust	1,002,000	25,000	963,000	132,000	1,130,000 1,965,000
Debt Service - 2012 Debt	1,002,000	-	903,000	783,000	783,000
Debt Service - 2012 Debt  Debt Service - 2008 Loan	_	-	-	449,000	449,000
Debt Service - 2015 Refunding	_	2,115,000	_	2,037,000	4,152,000
	6,072,700				
Less Total Appropriations/Transfers	6,072,700	2,215,000	10,474,300	6,317,000	25,079,000
Projected June 30, 2018 Balance	27,037,300	(11,422,000)	43,540,700	(11,948,000)	\$ 47,208,000 12,057,100
Less Operating Reserves	5,539,100	<u> </u>	6,518,000	<u> </u>	12,057,100
Projected replacement reserve/restricted funds	\$ 21,498,200	\$ (11,422,000)	\$ 37,022,700	<u>\$ (11,948,000)</u>	\$ 35,150,900
Adopted replacement reserve floor	\$ 6,721,600		\$ 15,472,900		
Adopted replacement reserve ceiling	\$ 28,785,100		\$ 46,161,000		

## RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2019

	110 Wa	iter 120	210 Wast	ewater 220	
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2018 Balance	\$ 27,037,300	\$ (11,422,000)	\$ 43,540,700	\$ (11,948,000) \$	47,208,000
Revenues and Transfers In	, ,				, ,
Debt Proceeds	_	2,869,000	_	7,513,000	10,382,000
Operating Transfers	530,000	-	6,128,000	-	6,658,000
Capital Facility Fees	-	1,785,000	· -	2,092,000	3,877,000
Property Tax	1,194,000	-	948,000	-	2,142,000
Grant Proceeds	-	-	155,000	345,000	500,000
RDA pass-through	800,000		800,000	-	1,600,000
Investment Earnings	143,000	(66,000)	240,000	(57,000)	260,000
Available Balance	29,704,300	(6,834,000)	51,811,700	(2,055,000)	72,627,000
Less 18/19 Appropriations and Transfers Out					
Encina Wastewater Authority Five Year Plan	-	-	4,702,000	1,000	4,703,000
San Marcos Interceptor	-	-	1,395,000	3,105,000	4,500,000
Meadowlark Tank No. 3	1,068,200	1,983,800	-	-	3,052,000
Montiel Gravity Outfall	-	-	1,152,000	1,408,000	2,560,000
Future Projects	1,625,000	185,000	-	-	1,810,000
High Point Pipeline	-	700,000	-	-	700,000
Las Posas 10-inch Water Main Replacement	565,000	-	_	_	565,000
N W Lake San Marcos Sewer Replacement & Relining Proje	-	_	525,000	_	525,000
Richland Invert Replacement	_	_	300,000	-	300,000
MRF: On-site Generation of Sodium Hypochlorite	_	_	300,000	_	300,000
Rock Springs Valve Replacement	220,000	_	-	_	220,000
Asset Management Replacement Schedule	100,000	_	100,000	_	200,000
District-wide Valve Replacement Program	175,000	_	-	_	175,000
Encina Parallel Land Outfall	-	_	_	150,000	150,000
Miscellaneous Projects	3,753,200	2,868,800	8,474,000	4,664,000	19,760,000
Debt Service - 2012 Debt	-	-	-	808,000	808,000
Debt Service - 2008 Loan	-	-	-	463,000	463,000
Debt Service - 2018 Issuance	-	74,800	-	196,100	270,900
Debt Service - 2015 Refunding		2,135,300		2,055,700	4,191,000
Less Total Appropriations/Transfers	3,900,200	5,078,900	8,539,000	8,187,800	25,705,900
Projected June 30, 2019 Balance	25,804,100	(11,912,900)	43,272,700	(10,242,800) \$	46,921,100
Less Operating Reserves	5,904,000		6,703,900		12,607,900
Projected replacement reserve/restricted funds	\$ 19,900,100	\$ (11,912,900)	\$ 36,568,800	\$ (10,242,800) \$	34,313,200
Adopted replacement reserve floor	\$ 6,966,600		\$ 17,818,100		
Adopted replacement reserve ceiling	\$ 30,222,200		\$ 51,223,100		
Debt service coverage					254%
Debt service coverage without cap fees					186%
Debt service coverage without cap fees or property tax & RDA					121%
Days of Operating Expenses in Unrestricted Cash and Investments					306

See significant assumptions on page 104

### RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2020

	110 Wa	nter 120	210 Wast	ewater 220	
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2019 Balance	\$ 25,804,100	\$ (11,912,900)	\$ 43,272,700	\$ (10,242,800)	\$ 46,921,100
Revenues and Transfers In					
Operating Transfers	1,144,000	-	5,646,000	-	6,790,000
Capital Facility Fees	-	1,623,000	-	1,981,000	3,604,000
Property Tax	1,220,000	-	968,000	-	2,188,000
RDA pass-through	800,000	750,000	800,000	1 520 000	1,600,000
Debt Proceeds	204.000	750,000	477.000	1,538,000	2,288,000
Investment Earnings	294,000	(137,000)	477,000	(125,000)	509,000
Available Balance	29,262,100	(9,676,900)	51,163,700	(6,848,800)	63,900,100
Less 19/20 Appropriations and Transfers Out					
Encina Wastewater Authority Five Year Plan	-	-	4,660,000	136,000	4,796,000
MRF: On-site Generation of Sodium Hypochlorite	-	-	1,700,000	-	1,700,000
Montiel Gravity Outfall	-	-	738,000	902,000	1,640,000
Future Projects	1,090,000	100,000	-	-	1,190,000
Richland Invert Replacement	-	-	1,160,000	-	1,160,000
Meadowlark Tank No. 3	350,000	650,000	-	-	1,000,000
Encina Parallel Land Outfall	-	-	-	500,000	500,000
Future Projects	410,000	-	-	-	410,000
Asset Management Replacement Schedule	100,000	-	100,000	-	200,000
Miscellaneous Projects	86,100	-	68,900	1,000	156,000
Debt Service - 2012 debt	-	-	-	777,000	777,000
Debt Service - 2008 Loan	-	-	-	461,000	461,000
Debt Service - 2018	-	225,000	-	562,900	787,900
Debt Service - 2015 Refunding		2,137,400		2,057,600	4,195,000
Less Total Appropriations/Transfers	2,122,200	3,112,400	8,495,800	5,398,500	19,128,900
Projected June 30, 2020 Balance	27,139,900	(12,789,300)	42,667,900	(12,247,300)	
Less Operating Reserves	6,358,200		6,967,200	<del>-</del>	13,325,400
Projected replacement reserve/restricted funds	\$ 20,781,700	\$ (12,789,300)	\$ 35,700,700	\$ (12,247,300)	31,445,800
Adopted replacement reserve floor	\$ 7,448,300		\$ 17,538,800		
Adopted replacement reserve ceiling	\$ 31,709,600		\$ 53,614,200		
Debt service coverage					223%
Debt service coverage without cap fees					165%
Debt service coverage without cap fees or property tax & RDA					117%
Days of Operating Expenses in Unrestricted Cash and Investments					278

See significant assumptions on page 104

## RESERVE PROJECTION FOR THE YEARS ENDING JUNE 30, 2021

	110 Wa	nter 120	210 Waste		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2020 Balance	\$ 27,139,900	\$ (12,789,300)	\$ 42,667,900	\$ (12,247,300)	\$ 44,771,200
Revenues and Transfers In					
Operating Transfers	2,543,000	-	5,143,000	-	7,686,000
Capital Facility Fees	-	1,655,000	-	1,917,000	3,572,000
Property Tax	1,246,000	-	989,000	-	2,235,000
RDA pass-through	800,000	-	800,000	-	1,600,000
Debt Proceeds	-	-	-	721,000	721,000
Investment Earnings	314,000	(147,000)	496,000	(148,000)	515,000
Available Balance	32,042,900	(11,281,300)	50,095,900	(9,757,300)	61,100,200
Less 20/21 Appropriations and Transfers Out					
Encina Wastewater Authority Five Year Plan	-	-	3,266,000	134,000	3,400,000
Future Projects	1,205,000	-	71,100	86,900	1,363,000
Elser Lane Water Line Improvements	1,275,000	-	-	-	1,275,000
Encina Parallel Land Outfall	-	-	-	500,000	500,000
Fire Services - Backflow Preventer Upgrades	50,000	-	-	-	50,000
Chlorine Contact Tank Expansion	-	-	-	1,000	1,000
Debt Service - 2012 Debt	-	-	-	777,000	777,000
Debt Service - 2008 Loan	-	-	-	457,000	457,000
Debt Service - 2018	-	211,600	-	571,700	783,300
Debt Service - 2015 Refunding		2,138,900		2,059,100	4,198,000
Less Total Appropriations/Transfers	2,530,000	2,350,500	3,337,100	4,586,700	12,804,300
Projected June 30, 2021 Balance	29,512,900	(13,631,800)	46,758,800	(14,344,000)	\$ 48,295,900
Less Operating Reserves	6,898,200		7,276,400		14,174,600
Projected replacement reserve/restricted funds	\$ 22,614,700	\$ (13,631,800)	\$ 39,482,400	\$ (14,344,000)	\$ 34,121,300
Adopted replacement reserve floor	\$ 8,327,200		\$ 17,601,100		
Adopted replacement reserve ceiling	\$ 33,281,500		\$ 56,250,600		

Debt service coverage	251%
Debt service coverage without cap fees	194%
Debt service coverage without cap fees or property tax & RDA	132%
Days of Operating Expenses in Unrestricted Cash and Investments	283

See significant assumptions on page 104

## RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2022

	110 Wa	ater 120	210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2021 Balance	\$ 29,512,900	\$ (13,631,800)	\$ 46,758,800	\$ (14,344,000)	\$ 48,295,900
Revenues and Transfers In					
Operating Transfers	3,455,000	-	4,870,000	-	8,325,000
Capital Facility Fees	-	1,688,000	-	1,955,000	3,643,000
Property Tax	1,273,000	-	1,010,000	-	2,283,000
RDA pass-through	800,000	-	800,000	-	1,600,000
Investment Earnings	360,000	(156,000)	544,000	(198,000)	550,000
Available Balance	35,400,900	(12,099,800)	53,982,800	(12,587,000)	64,696,900
Less 21/22 Appropriations and Transfers Out					
Encina Parallel Land Outfall	_	-	-	3,800,000	3,800,000
Encina Wastewater Authority Five Year Plan	-	-	2,402,000	708,000	3,110,000
Future Projects	-	105,000	346,500	423,500	875,000
Chlorine Contact Tank Expansion	-	-	-	1,000	1,000
Debt Service - 2012 Debt	-	-	-	778,000	778,000
Debt Service - 2008 Loan	-	-	-	454,000	454,000
Debt Service - 2018	-	212,200	-	573,200	785,400
Debt Service - 2015 Refunding		2,138,400		2,058,600	4,197,000
Less Total Appropriations/Transfers		2,455,600	2,748,500	8,796,300	14,000,400
Projected June 30, 2022 Balance	35,400,900	(14,555,400)	51,234,300	(21,383,300)	\$ 50,696,500
Less Operating Reserves	7,377,500		7,457,900		14,835,400
Projected replacement reserve/restricted funds	\$ 28,023,400	\$ (14,555,400)	\$ 43,776,400	\$ (21,383,300)	\$ 35,861,100
Adopted replacement reserve floor	\$ 9,091,900		\$ 18,437,700		·
Adopted replacement reserve ceiling	\$ 35,235,400		\$ 59,385,900		
Debt service coverage					264%
Debt service coverage without cap fees					205%
Debt service coverage without cap fees or property tax & RDA					143%
Days of Operating Expenses in Unrestricted Cash and Investments					284

 $See \ significant \ assumptions \ on \ page \ 104$ 

#### LONG RANGE RESERVE PROJECTION

	2022/23	2023/24	2024/25	2025/26	2026/27
Projected Beginning Balance	\$ 50,697,000	\$ 48,680,000	\$ 47,785,000	\$ 47,254,000	\$ 47,092,000
Revenues and Transfers In					
Operating transfers	8,533,000	8,746,000	8,965,000	9,189,000	9,419,000
Capital facility fees	3,734,000	3,827,000	3,923,000	4,021,000	4,122,000
Property tax	2,332,000	2,382,000	2,433,000	2,485,000	2,538,000
Investment earnings	552,000	535,000	527,000	524,000	524,000
Capital outlay	(11,740,000)	(11,740,000)	(11,740,000)	(11,740,000)	(11,740,000)
Debt service	(5,428,000)	(4,645,000)	(4,639,000)	(4,641,000)	(4,635,000)
Projected Ending Balance	\$ 48,680,000	\$ 47,785,000	\$ 47,254,000	\$ 47,092,000	\$ 47,320,000
Operating reserves	15,206,000	15,586,000	15,976,000	16,375,000	16,784,000
Pension reserves	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000
Projected replacement reserve/restricted funds	\$ 31,274,000	\$ 29,999,000	\$ 29,078,000	\$ 28,517,000	\$ 28,336,000
Adopted replacement reserve floor	\$ 28,922,000	\$ 31,160,000	\$ 33,988,000	\$ 36,468,000	\$ 37,297,000
Adopted replacement reserve ceiling	\$ 99,374,000	\$103,163,000	\$106,982,000	\$ 110,106,000	\$ 111,192,000

### Significant Assumptions

Operating Transfers - the result of operating activity transferred from the disbursements fund during the year.

#### Tiers & Rates:

Water: Fiscal Year (FY) 17/18 will see a change in the tier structure from 4 tiers to 3 effective January 1, 2018. The tier 1 rate will increase from \$3.08 to \$3.35. The monthly ready-to-serve (RTS) for a 5/8" meter will be \$35.18 effective January 1, 2018. Assumed rate increases for FY 18/19 FY 19/20, FY 20/21 and FY 21/22 are listed below.

	2018	2019	2020	2021
Water commodity Tier 1 - Single Family Residence	\$3.35	\$3.46	\$3.65	\$3.92
Increase	\$0.09	\$0.11	\$0.19	\$0.27
Percentage Increase	2.8%	3.3%	5.5%	7.4%
	FY 18/19	FY 19/20	FY 20/21	FY 21/22
Monthly ready-to-serve 5/8" meter charge	\$35.18	\$36.78	\$38.74	\$39.99
	\$3.76	\$1.60	\$1.96	\$1.25
	11.5%	4.5%	5.3%	3.2%

Sewer: Monthly sewer for a single family residence is expected to remain at \$38.99 per month

*Operating Expense Assumptions* - Over the next five years, cost of wholesale water commodity will increase by 26% and wholesale fixed charges will increase 24%. Power, fuel, and chemical costs will increase by 4.5% while most other operating costs will increase by 2% from year-to-year on average. The District will add 130 water accounts in 2017/18, 120 in 2018/19, and 120 in 2019/20 and every year thereafter. The District will add 140 sewer accounts in 2017/18 through 2019/20, 130 in 2020/21 and each year thereafter.

Capital Facility Fees – The District will collect capacity charges for 160 water EDUs in fiscal years 2016/17 and 2017/18 and 150 EDUs in each fiscal year, 2018/19, 2019/20 and 2020/21. The District will collect capacity charges for 170 sewer EDUs in 2016/17 through 2018/19 and 130 sewer EDUs from 2019/20 through 2020/21. The rate per EDU will increase by 3.0% each year.

Property Tax - revenue from the 1% allocation will increase by 2.15% each year.

Investment Earnings - assumed at 1.11%.

## Vallecitos Water District Replacement Reserve Limits - Water System For the 2017-18 Budget year

Value	ENR	Index (as of M	Iarch 20	17)	10278									
995 8 923,988 14.0 \$13,101,570 422,096	Year	Original	ENR	2016				,	Year of Re	placement	t			
995 8 923,988 14.0 \$13,101,570 422,096	Added	Cost	Factor	Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1963   134,201   134   187,205   58,622   58,622   58,622   58,622   58,622   58,622   58,622   58,622   58,623   58,6														
1965   1967   1977   1986   1973   1987														
1966   10749   1090   1081567   34954   3495				23,586,778										
1966   107,429   1009   1.083,567   34,954   3	1964	181,560	10.98	1,993,668	64,312	64,312	64,312	64,312	64,312	64,312	64,312	64,312	64,312	64,312
1968	1965	256,377	10.58	2,713,741	87,540	87,540	87,540	87,540	87,540	87,540	87,540	87,540	87,540	87,540
1996   337,421   89.90   332,998   10,742   10														
10,985   10,283   10,283   10,283   10,283   10,383   1														
1971   90,080   6.50   585,605   18,900   18,9														
1972   77.09   5.86   5.85,605   18,890   18,990   14,580   14,5		,												
14.580   1														
1973   169,427   5.42   918,929   29,643   29,														
1975   230,30														
1976   220,530   4.65   1.071.152   34,533   34,553   3														
1976   296,066   428   1,267,375   40,833   40,883   40														
1978   3,353,752   3,70   12,417,098   400,552   400,5														
1999   933,794   3.42   3,195,982   103,906   103,097   103,096   103,096   103,097   103,096	1977	303,133	3.99		39,015	39,015	39,015	39,015	39,015	39,015	39,015	39,015	39,015	39,015
1980   390,894   318   1241,152   - 40,037   4	1978	3,353,752	3.70	12,417,098	400,552	400,552	400,552	400,552	400,552	400,552	400,552	400,552	400,552	400,552
1981   397,944   29		,			103,096									
1982   1,933,811   2,69					-	-								
983   3,393,243   2,53   8,577,411   984   5,435,000   2,48   13,473,456   276,691					-		-							
984   5.45,002   2.48   13,473.456   -   -   434,628					-									
985   675,452   2.45   1,654,898   -					-	-	-	-	-					
986   611,788   2.39   1,464,018   -				, ,	-	-	-	-		-				
1987   799,052   233   1,863,971					-	-	-	-	-	-				
1988   8,585,267   2.27   19,526,305   629,881     1989   1,572,104   2.23   3,501,210   629,881     1991   1,777,396   2.13   3,778,299					_	_	_	_	_	_				
1989					-	_	_	_	_	_	_	_		
1990					-	-	-	-	-	-	-	-	-	-
1992   8,263,508   2.06   17,037,580	1990		2.17		-	-	-	-	-	-	-	-	-	-
1993   3,727,844   197   7,354,085	1991	1,777,396	2.13	3,778,299	-	-	-	-	-	-	-	-	-	-
1994	1992	8,263,508	2.06	17,037,580	-	-	-	-	-	-	-	-	-	-
1995					-	-	-	-	-	-	-	-	-	-
1996 1,872,216 1.83 3,423,957 1997 3,075,659 1.76 5,425,957 1998 4,236,142 1.74 7,534,572 2000 33,016,987 1.65 54,548,882 2001 1,599,452 1.62 2,591,702 2002 2,243,174 1.57 3,526,360 2003 8,148,602 1.54 12,510,207 2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2006 6,296,020 1.33 8,348,664 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372 2016 6,131,372 1.03 6,286,109 \$\frac{1}{2}\$ 366,974,957 2,201,416 2,241,454 2,278,777 2,446,398 2,723,089 3,157,717 3,211,100 3,258,327 3,318,455 3,948,336}  Three-Year Minimum Reserve Balance					-	-	-	-	-	-	-	-	-	-
1997 3,075,659 1.76 5,425,957 1998 4,236,142 1.74 7,354,572 1999 1,216,379 1.70 2,063,367 2000 33,016,987 1.65 54,548,882 2001 1,599,452 1.62 2,591,702 2002 2,243,174 1.57 3,526,360 2003 8,148,602 1.54 12,510,207 2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372 2016 6,131,372 1.03 6,286,109  \$\frac{1}{8}\$ 366,974,957 2,201,416 2,241,454 2,278,777 2,446,398 2,723,089 3,157,717 3,211,100 3,258,327 3,318,455 3,948,336}  Three-Year Minimum Reserve Balance					-	-	-	-	-	-	-	-	-	-
1998					-	-	-	-	-	-	-	-	-	<u>-</u>
1999								C	:4-1 ^4	\\/-+	_			-
2000 33,016,987 1.65 54,548,882 2001 1,599,452 1.62 2,591,702 2002 2,243,174 1.57 3,526,360 2003 8,148,602 1.54 12,510,207 2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2006 6,296,020 1.33 8,348,664 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2013 2014 2015 2016 2010 4,510,327 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2016 2016 2017 2017 2017 2017 2017 2018 2018 2014 2015 2016 2016 2016 2016 2017 2017 2017 2018 2018 2014 2015 2016 2016 2017 2017 2018 2018 2014 2015 2016 2016 2017 2017 2018 2018 2014 2015 2016 2018 2014 2015 2016 2018 2014 2015 2016 2018 2014 2015 2016 2018 2018 2014 2015 2016 2018 2018 2018 2018 2018 2018 2018 2018								Сар	itai Assei	s - water	Γ			_
2001 1,599,452 1.62 2,591,702 2002 2,243,174 1.57 3,526,360 2003 8,148,602 1.54 12,510,207 2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372						\$250								_
2002											_	_		_
2003 8,148,602 1.54 12,510,207 2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2006 6,296,020 1.33 8,348,664 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372 2016 6,131,372 1.03 6,286,109  \$\frac{1}{8}\$ 196,941,476 \$\frac{3}{8}\$ 366,974,957 2,201,416 2,241,454 2,278,777 2,446,398 2,723,089 3,157,717 3,211,100 3,258,327 3,318,455 3,948,336}  Three-Year Minimum Reserve Balance						\$200								_
2004 4,803,706 1.44 6,939,319 2005 4,945,039 1.38 6,825,846 2006 6,296,020 1.33 8,348,664 2007 9,123,102 1.29 11,770,932 2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372 2016 6,131,372 1.03 6,286,109 3196,941,476 \$366,974,957 2,201,416 2,241,454 2,278,777 2,446,398 2,723,089 3,157,717 3,211,100 3,258,327 3,318,455 3,948,336  Three-Year Minimum Reserve Balance	2003					\$150								-
2005	2004	4,803,706	1.44											-
2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372	2005	4,945,039	1.38	6,825,846	<u>.0</u>	\$100								-
2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372	2006	6,296,020	1.33	8,348,664	=									-
2008 7,200,501 1.24 8,905,746 2009 32,403,360 1.20 38,861,346 2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372	2007	9,123,102	1.29	11,770,932	≥	\$50								-
2010 4,510,327 1.17 5,266,660 2011 2,053,547 1.13 2,327,051 2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372 2016 6,131,372 1.03 6,286,109														-
2011 2,053,547 1.13 2,327,051		, ,				\$- <del>  -</del>								-
2012 1,249,525 1.10 1,379,740 2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372							2010	2011			2014	2015	2016	-
2013 3,574,225 1.09 3,884,518 2014 1,464,242 1.05 1,534,722 2015 1,950,156 1.03 1,999,372									,	iscai rear				-
2014 1,464,242 1.05 1,534,722							Land	_	Work in Proce	ess	Depreciable A	ssets		-
2014						_	Net Capital A	ssets =	-Accumulated	Depreciation -	Reserve Ceilin	g		-
2016 6,131,372 1.03 6,286,109														_
\$\\\ \begin{array}{c ccccccccccccccccccccccccccccccccccc	2015	1,950,156	1.03	1,999,372	-	-	-	-	-	-	-	-	-	-
Three-Year Minimum Reserve Balance <>	2016	6,131,372	1.03	6,286,109										
		\$ 196,941,476		\$ 366,974,957	2,201,416	2,241,454	2,278,777	2,446,398	2,723,089	3,157,717	3,211,100	3,258,327	3,318,455	3,948,336
	Three	-Vear Minimu	m Reso	rve Balance	<\$6	721 647		_	_	_	_	_	_	_
Ten-Year Maximum Reserve Balance <	111166	- i cai iviiiiiillu	iii ixese	i ve Daianet	\ <b></b> 30	, / 4 1 , 04 /								ı
	Ten-Y	ear Maximum	n Reserv	e Balance	<				\$28,78	35,068				>

# Vallecitos Water District Replacement Reserve Limits - Wastewater System For the 2017-18 Budget year

ENR Index (as of March 2017)	10278
El tit index (ds of march 2017)	102/0

Year	Original	ENR	2016						Year of Re	eplacemen	t			
Added	Cost	Factor	Costs	2	018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1964	\$ 1,421,340	10.98	\$ 15,607,407		_									
1965	394,116	10.58	4,171,704		-	-	-	-	-	-	-	-	-	
1966	110,183	10.09	1,111,345		-	-	-	-	-	-	-	-	-	
1967	41,816	9.57	400,172		-	-	-	-	-	-	-	-	-	
1968	24,352	8.90	216,701		13,544	-	-	-	-	-	-	-	-	
1969	28,784	8.10	233,130		14,571	14,571		-	-	-	-	-	-	
1970	1,617,466	7.44	12,037,882		52,368	752,368		<u>-</u>	-	-	-	-	-	
1971	53,601	6.50	348,457		21,779	21,779		21,779	-	-	-	-	-	
1972	78,755	5.86	461,748		28,859	28,859		28,859	28,859	-	-	-	-	
1973	149,279	5.42	809,651		50,603	50,603		50,603	50,603	50,603	120 224	-	-	
1974 1975	409,501	5.09	2,083,590		30,224	130,224		130,224	130,224 54,996	130,224	130,224	54.006	-	
1975	189,378 151,559	4.65 4.28	879,940 648,781		54,996 40,549	54,996 40,549		54,996 40,549	40,549	54,996 40,549	54,996 40,549	54,996 40,549	40,549	
1977	394,775	3.99	1,575,115		98,445	98,445		98,445	98,445	98,445	98,445	98,445	98,445	98,445
1978	930,683	3.70	3,445,807		15,363	215,363		215,363	215,363	215,363	215,363	215,363	215,363	215,363
1979	697,184	3.42	2,386,166		49,135	149,135		149,135	149,135	149,135	149,135	149,135	149,135	149,135
1980	139,384	3.18	442,567		27,660	27,660		27,660	27,660	27,660	27,660	27,660	27,660	27,660
1981	192,586	2.91	559,943		34,996	34,996		34,996	34,996	34,996	34,996	34,996	34,996	34,996
1982	4,772,279	2.69	12,823,394		01,462	801,462		801,462	801,462	801,462	801,462	801,462	801,462	801,462
1985	5,149,309	2.45	12,616,114	7	88,507	788,507		788,507	788,507	788,507	788,507	788,507	788,507	788,507
1986	19,355,791	2.39	46,318,701		-	2,894,919	2,894,919	2,894,919	2,894,919	2,894,919	2,894,919	2,894,919	2,894,919	2,894,919
1987	381,136	2.33	889,087		-	-	55,568	55,568	55,568	55,568	55,568	55,568	55,568	55,568
1988	1,232,431	2.27	2,803,037		-	-	-	175,190	175,190	175,190	175,190	175,190	175,190	175,190
1989	2,001,761	2.23	4,458,093		-	-	-	-	278,631	278,631	278,631	278,631	278,631	278,631
1990	3,031,169	2.17	6,583,761		-	-	-	-	-	411,485	411,485	411,485	411,485	411,485
1991	1,864,618	2.13	3,963,711		-	-	-	-	-	-	247,732	247,732	247,732	247,732
1992	3,162,421	2.06	6,520,233		-	-	-	-	-	-	-	407,515	407,515	407,515
1993	13,446,724	1.97	26,526,954		-	-	-	-	-	-	-	-	1,657,935	1,657,935
1994	2,113,222	1.90	4,016,216		-	-	-	-	-	-	-	-	-	251,013
1995 1996	3,276,618 1,199,768	1.88 1.83	6,155,562 2,194,166		-	-	-	-	-	-	-	-	-	
1990	988,964	1.76	1,744,691			-	-	-	-	-	-	-		
1998	4,670,391	1.74	8,108,493					C:	hal Aaaaha					
1999	1,047,495	1.70	1,776,886					Capi	tal Assets	- Sewer				
2000	3,954,391	1.65	6,533,231			\$160								_
2001	2,705,995	1.62	4,384,710			\$140								-
2002	109,018	1.57	171,381			\$120		_	_	_				-
2003	9,260,829	1.54	14,217,762			\$100								-
2004	3,031,642	1.44	4,379,438		Su	\$80								-
2005	2,984,298	1.38	4,119,352		Millions									-
2006	7,245,244	1.33	9,607,356		≔	\$60							-	-
2007	(10,129,834)	1.29	(13,069,851)		<b>≥</b>	\$40								-
2008	9,022,922	1.24	11,159,758			\$20								-
2009	37,476,922	1.20	44,946,068			\$- <del> </del>								-
2010	3,860,825	1.17	4,508,244				2010	2011		2013	2014	2015	2016	-
2011	1,487,477	1.13	1,685,589						Fis	cal Year				-
2012	3,612,924	1.10	3,989,432				Land	_	Work in Proces	s	Depreciable Ass	sets		-
2013	(1,398,127)		(1,505,180)				Net Capital As	sets -	-Accumulated D					-
2014	2,007,273	1.05	2,103,891				Net capital As		-Accumulated D	epicelation - V	- neserve centing			-
2015	(1,576,814)	1.03	(1,616,608)		-	-	-	-	-	-	-	-	-	-
2016	792,086	1.03	812,076	_	-									
	\$ 149,165,910		\$291,345,856	3,2	23,062	6,104,437	6,145,434	5,568,256	5,825,108	6,207,734	6,404,863	6,682,153	8,285,092	8,495,556
Three	e-Year Minimu	ım Rese	rve Balance	<-	\$	15,472,93	2>							
Eight	-Year Maximu	ım Rese	rve Balance	<-				\$46,10	61,047			>		





201 Vallecitos de Oro • San Marcos, California • 92069-1453 (760) 744-0460

# NOTICE OF PUBLIC HEARING ON PROPOSED CHANGE IN WATER AND SEWER SERVICE RATES AND WATER RATE STRUCTURE

Date: Wednesday, August 2, 2017

Time: 5:00 p.m.

Location: 201 Vallecitos de Oro, San Marcos, CA 92069

You are receiving this notice because you are a Vallecitos Water District customer. This notice is being furnished to you pursuant to the California Constitution Article XIIID, also known as Proposition 218. The August 2, 2017, public hearing will cover the proposed adjustments for water and sewer rates, and water rate structure to become effective from January 1, 2017, through December 31, 2019. This notice addresses why rate changes are necessary, what the water and sewer rates fund, and the basis for the proposed rates.

### What is the impact to the average single family residence?

### **EXAMPLE**

The proposed rates will result in the following increases to the average single family residential bill. Your resulting increase will vary depending on your water usage and meter size. Visit <a href="www.vwd.org/rates">www.vwd.org/rates</a> to learn how rates will impact you.

Average Single Family Residential Customer Bill*											
Current Jan 2018 Jan 2019											
Total Water and Sewer Bill	\$	118.77	\$	123.56	\$	128.54					
\$ Increase over Prior Year			\$	4.79	\$	4.98					
% Increase over Prior Year		4.0%		4.0%							
*The average Single Family Residential Bill assumes a	s 5/8" r	neter using 13	units (	9,724 gallons)	of wa	ter per month.					

### Why are rate increases necessary?

Rate increases are necessary to continue to provide safe, reliable and sustainable water and sewer service to our customers and are required to cover the increased cost of wholesale water, electricity cost increases, inflationary cost increases, escalating costs to comply with increasingly stringent environmental regulations, replace aging infrastructure, fund an asset replacement program and meet debt service requirements.

Even with the proposed rate increases, Vallecitos is a public agency that does not operate for profit, so only those charges sufficient to support your service are billed to you. Each end user pays a fair share of the cost of water acquisition and delivery, as well as the rehabilitation, operation and maintenance of the public water and sewer facilities. As always, we will continue to honor our commitment to provide the most reliable service at the lowest possible cost.

Notice of Public Rate Hearing

vwd.org | 760.744.046

### What do water and sewer rates fund?

The proposed rates are being considered solely for the purpose of covering costs incurred by the water and sewer system, which include treated water purchases, collection and treatment of wastewater and disposal of treated effluent, water and sewer system operation and maintenance, facility and equipment maintenance, water and sewer system rehabilitation, regulatory compliance, metering, billing, and account management. The new rate structure will also be tiered to encourage conservation, fund conservation programs, comply with drought alerts and cover the costs of public awareness, education and outreach, and water reliability and diversification.

The proposed rate increases include wholesale water cost increases from our wholesaler, the San Diego County Water Authority (CWA). CWA has adopted rates for calendar years 2017 and 2018 but not for subsequent years and these wholesale rates are passed through to our customers.

### What Vallecitos is doing to control costs?

Vallecitos' priority to ensure financial stability is to control costs. In recent years Vallecitos has restructured its organization, eliminating positions, and redistributing workload to maximize productivity and efficiency. The last two labor negotiations have resulted in cuts to employee benefits. Vallecitos contracted with the Olivenhain Municipal Water District for water treatment services at a cost of 20% less than the San Diego County Water Authority's treatment charge. Vallecitos has engaged consultants to perform energy and operational efficiency studies and implemented recommendations from the studies, as well as input from staff, including changes and upgrades to the sewer treatment process which reduced chemical usage and power consumption, installing energy efficient lighting and pumping equipment, in-house mechanical and fleet maintenance, critical asset condition assessments, predictive asset maintenance and replacement, and strategic use of technology throughout field operations and customer billing. Staff evaluates the effectiveness of changes implemented and continuously improves efficiency of operations.

### How are water and sewer rates determined?

A comprehensive Cost of Service Study was performed. One of the major goals of the study was to ensure equitable water and sewer rates that produce adequate revenues to meet the District's financial needs, recognize customer costs of service and encourage water conservation in a resource-constricted environment. No increase to sewer rates are being proposed. For more information, the report is posted to <a href="https://www.vwd.org">www.vwd.org</a>.

### How to provide comments or protest the rate adjustment

You may comment or ask questions at any time by contacting Vallecitos Water District, 760.744.0460, vwd@vwd.org, or participating in the August 2, 2017, Public Hearing at 5:00 pm.

You have the right to protest the rate change if you are:

- i. The record owner of an affected parcel,
- ii. A person with a legal interest in an affected parcel, or
- iii. A person who is legally responsible to pay the rates for an affected parcel.

User rates are subject to majority protest, which means if a majority of impacted owners submit written protest against the increase, Vallecitos Water District cannot institute the new rates.

Protests must be in writing and mailed or hand-delivered to Vallecitos Water District. In accordance with State law, faxed or e-mailed protests cannot be accepted.

In compliance with Proposition 218, only one protest per property will be counted. All written protests must be received by Vallecitos Water District before the end of the Public Hearing on August 2, 2017. Please direct written protests to Vallecitos Water District, General Manager, 201 Vallecitos de Oro, San Marcos CA 92069.

Water Monthly Ready-to-Serve Charges						
	Effective January:					
Meter Size	Current	2018	2019			
5/8"	\$ 31.42	\$ 34.02	\$ 36.00			
3/4"	36.52	36.52	36.52			
1"	55.29	55.29	55.29			
1.5"	110.59	121.59	132.59			
2"	178.11	195.91	219.10			
3"	356.22	356.22	356.22			
4"	552.94	552.94	552.94			
6"	1,105.88	1,105.88	1,105.88			
10"	2,549.36	2,549.36	2,549.36			
Multiple Dwelling Unit	18.26	14.54	14.54			
Temporary Meters	204.48	233.27	262.05			
Fire Line per diameter inch	5.87	5.87	5.87			

The monthly **Ready-to-Serve Charge** is assessed to recover fixed charges paid by the District to the District's wholesaler, San Diego County Water Authority, expenses associated with meters and service lines, operating expenses not directly related to the flow of water (general and administrative, engineering, information technology, etc.), and capital asset replacement costs of service lines, meters, and general facilities. These expenses are incurred by the District even if no water is delivered to our customers.

Water Commodity Tier Structure in Units (748 gallons)								
Meter	Current				Effective January 2018			
Size	Tier 1	Tier 2	Tier 3	Tier 4	Tier 1	Tier 2	Tier 3	
<1"	1 - 5	6 - 17	18 - 36	37 +	1 - 6	7 - 21	22 +	
1"	1 - 5	6 - 60	61 - 214	215 +	1 - 16	17 - 78	79 +	
1.5"	1 - 5	6 - 157	158 - 627	628 +	1 - 43	44 - 196	197 +	
2"	1 - 5	6 - 242	243 - 806	807 +	1 - 85	86 - 335	336 +	
>2"	1 - 5	6 - 1133	1134-3970	3,971+	1 - 430	431-1,190	1,191 +	
Agricultural	1 - 5	6+				1+		
Temporary (	Construct	ion		1+			1+	

Water Commodity Rates per Unit								
Effective January:								
	Current			2018		2019		
Tier 1	\$	3.08	\$	3.35	\$	3.64		
Tier 2		4.12		4.35		4.53		
Tier 3		5.33		8.30		8.73		
Tier 4		7.41						

Water Commodity Rates recover the cost of water supply, expenses directly associated with water flow (transmission and distribution, water treatment, tanks and reservoirs, etc.), conservation costs, and capital replacement costs of assets directly associated with water flow (tanks and reservoirs, transmission and distribution, pumping, etc.).

Sewer Monthly Service Charges							
			E	Effective January:			
Customer Type	Current		2018		2019		
Single Family Residential	\$	38.99	\$	38.99	\$	38.99	
Residential - Multiple Unit		35.09		35.09		35.09	
Mobile Home		31.19		31.19		31.19	
Nonresidential (per 100 cubic feet of flow)		4.96		4.96		4.96	

Sewer Service Charges recover costs of capital replacement of sewer system assets and general facilities, disposal, collection and conveyance, sewer treatment, and operations (general and adminstrative, information technology, engineering, etc.).





This legal notice contains important information regarding rates associated with providing 21,000 plus customers in San Marcos, portions of Carlsbad, Escondido, Vista and unincorporated areas in San Diego County with safe, reliable water and wastewater services. (Para información en Español, visítenos en www.vwd.org o llámenos a (760)744-0460.





Notice of Public Rate Hearing

# **Conservation Assistance**

To assist customers to conserve water and reduce their water bill, Vallecitos offers free landscape irrigation audits to determine the efficiency of your irrigation system. For more information on water conservation programs, please visit our website at www.vwd.org/conservation or go to SustainableLandscapesSD.org.



