VALLECITOS WATER DISTRICT

Water and Wastewater Specialists since 1955

BUDGET

Fiscal Year 2023-2024

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Our Mission

The water and wastewater specialists - providing reliable and sustainable services.

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

Board of Directors

James Hernandez,
President

Tiffany Boyd-Hodgson,
Ph.D., Vice President

Jim Pennock

Craig Elitharp

Erik Groset

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

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VALLECITOS WATER DISTRICT
Water and Wastewater Specialists since 1955

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

Date: June 7, 2023

To: Honorable Board of Directors

Regarding: Fiscal Year 2023/24 Budget

Enclosed is the recommended **Budget** for Fiscal Year 2023/24 (FY 23/24). The FY 23/24 budget totals $103.7 million compared to $100.2 million in FY 22/23. The FY 23/24 Budget is comprised of $66.3 million of operational expenses (a $4.4 million or 7.1% increase from the $61.9 million in 2022/23 operating budget), $30.3 million for capital items and projects ($31.8 million in 2022/23) and debt service of $5.5 million ($6.5 million in 2022/23). This budget includes a ten-year plan for capital items and projects of $137.4 million ($137.5 million in 2022/23). Inclusive of the ten-year capital plan the budget totals $210.8 million compared to $208.0 million in 2022/23.

The operational increase of $4.4 million primarily is attributable to a $2.4 million increase in water purchases as a result of San Diego County Water Authority (SDCWA) rate increases. The District estimated a 9.5% increase in the cost of water purchased from SDCWA. Budgeted water purchases for FY 23/24 reflect these projected rate increases. The remaining $2.0 million is mainly a result of budgeted increases in costs for salaries and benefits and other operational increases budgeted by the District such as a $0.4 million increase in the District's share of wastewater treatment and disposal costs at Encina Wastewater Authority. In addition, $6.0 million from operations is being transferred to reserves for capital replacement.

Projected rate increases contained in this budget for Sewer and Water Ready-to-Serve have been estimated to meet strategic and financial objectives of the budget. Water commodity rates effective for Calendar Year 2024 are conservatively estimated to absorb the water wholesale pass-through costs. Average combined bill increases are estimated between 5.0% and 5.5% for Calendar Year 2024, and between 5.0% and 6.0% over the following four years.

Long-range Financial Planning

As with recent budgets, this budget includes a ten-year projection of operating costs and capital needs in order to plan for a sound future in water supply and reliability. Fiscal sustainability is 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 financial viability of the District. Some of these considerations include rate affordability, maintaining reserves, assessing adequacy to cover debt obligations now and in the future, funding CalPERS Unfunded Accrued Liability (UAL), and a credit worthy cash position. The District plans to meet its capital needs and maintain a strong financial position by minimizing new borrowing.

FINANCIAL HIGHLIGHTS

The following narratives are financial highlights and comparisons of this budget, FY 2023/24, and last budget, FY 2022/23.

Water Operations (pages 3-14)
Water purchases are projected to total 15,010 acre-feet, with sales of 14,300 acre-feet for 2023/24. The water operating budget increased by $3.4 million from last year's budget, or 7.1%.

Wastewater Operations (pages 15-24)
Wastewater operating costs increased $1.0 million, or 7.0%, over last year's budget, mainly due to the increasing costs for wastewater treatment and disposal and the need for SCADA support as well as the need to hire temporary staff to help with engineering projects.

Personnel (pages 25-32)
Fiscal year 2023/24 includes one new position at an estimated annual cost of $197 thousand in salary and benefits. Four positions were also reclassified at an estimated annual cost of $45 thousand. The District successfully concluded labor negotiations and entered into a new memorandum of understanding (MOU) with staff beginning in fiscal year 2024. Some of the changes resulting from the MOU were that it implemented a class & compensation study, added new longevity increases, and included a Cost of Living Adjustment of 5% for fiscal year 2024. Total salaries and benefits for 2023/24 increased from the last budget year by $1.3 million, or 7.5%, mainly as a result of MOU changes of $1.0 million, the addition of the new position, and funding for normal step increases at a cost of $0.1 million, inclusive of salaries and benefits. Management will continue to scrutinize the need for all positions and only fill positions if absolutely necessary.

Capital Budget (pages 34-117)
Capital projects are summarized on the Comprehensive Project List found on page 35. Details of each project, including timing of phases and spending, are presented on pages 37 through 117, followed by requests for easements, vehicles and equipment of $1.6 million. Of the ten-year $137.5 million capital budget, $60.6 million are new requests and $20.7 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 decrease of $0.1 million. The amount of capital funding for FY 2023/24 is $30.3 million.

Reserve Budget and Projection (pages 121-127)
The Reserve Budget includes revenues and transfers from various sources and summarizes appropriations and expected cash outflows for capital projects, and debt service. Page 122 displays the 2023/24 reserve budget for consideration. Pages 123 through 127 display detailed reserve projections for four subsequent years and a summary projection for the five years thereafter, followed by a graphical representation of reserve levels as they relate to policy limits.

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

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

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BUDGET FOR THE YEAR ENDING JUNE 30, 2024

BUDGETARY CONSIDERATIONS

Mission Statement

The water and wastewater specialists - providing reliable and sustainable services.

The budget reflects the mission statement

Budgetary Approach

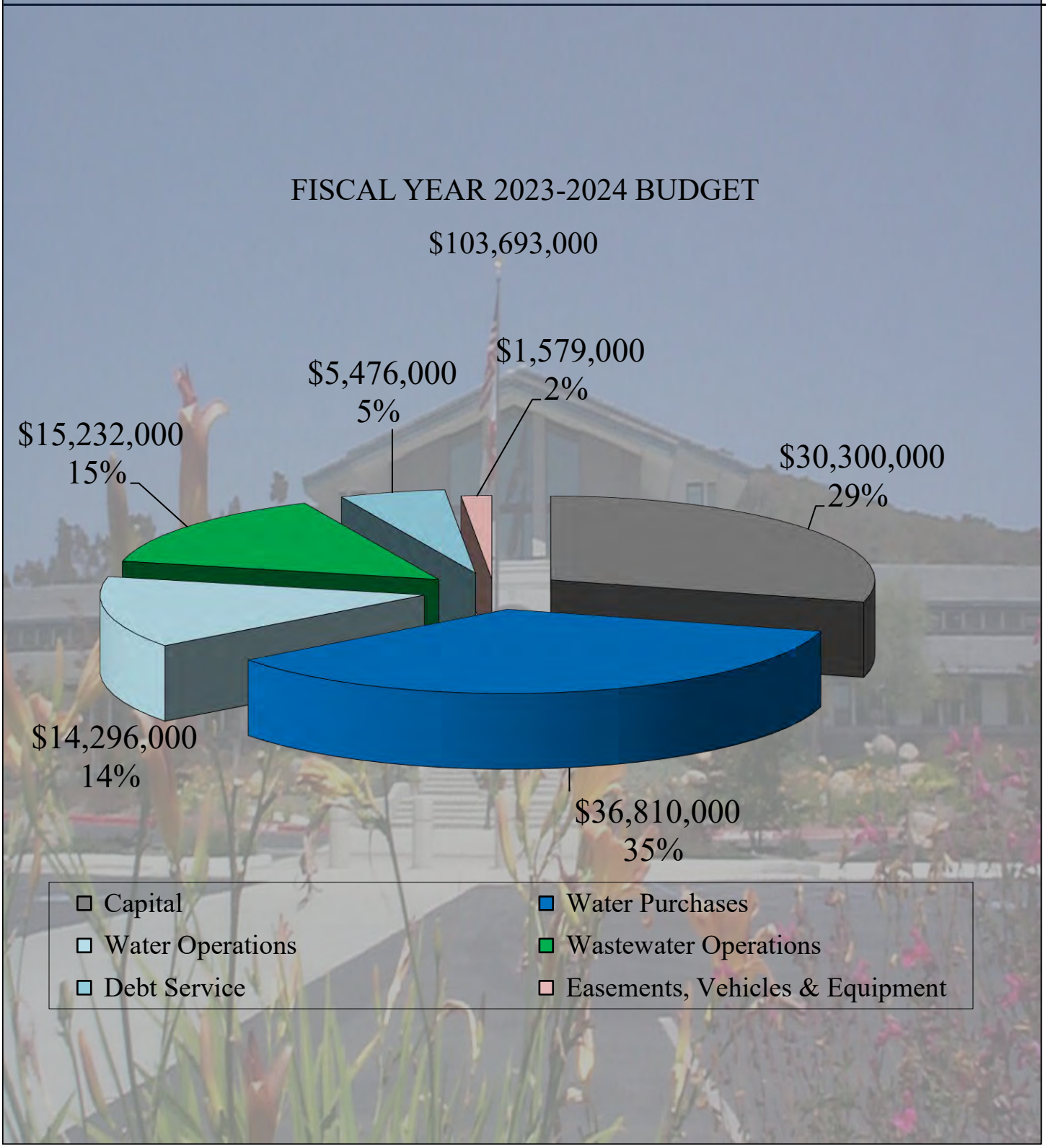
Governmental agencies, such as cities and counties, usually approach their budgets from the "revenue end." Since their revenues are somewhat predictable and restricted, their budgetary considerations are based on setting a level of service (expense total) that can be attained with those available funds.

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.

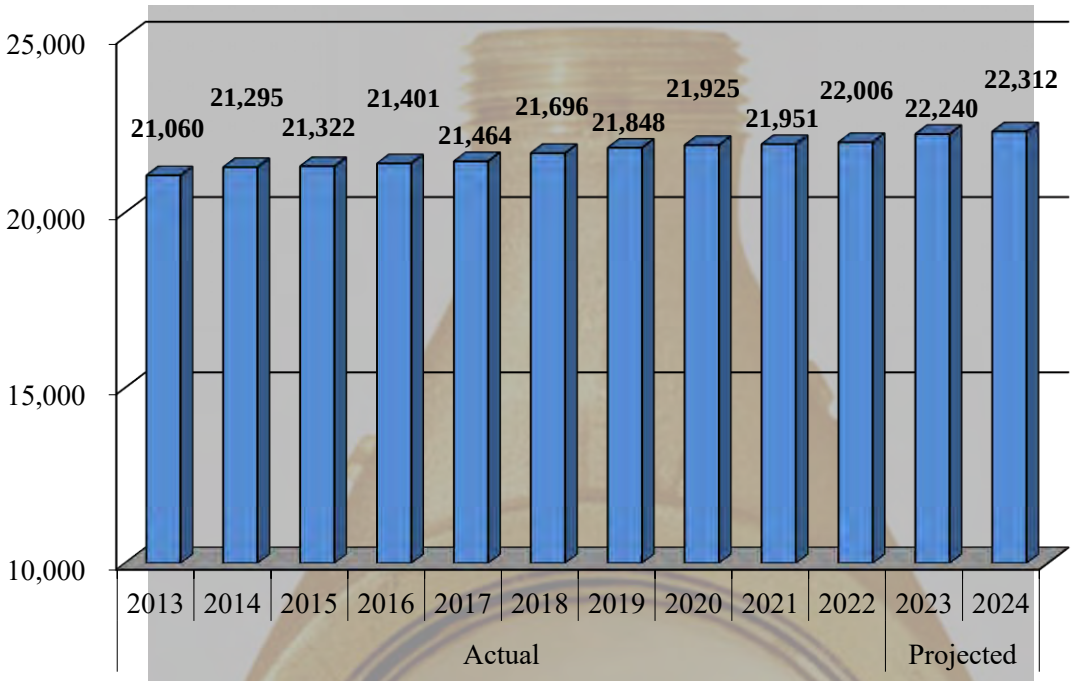

FISCAL YEAR 2023-2024 BUDGET
$103,693,000
$1,579,000
2%
$5,476,000
5%
$15,232,000
15%
$30,300,000
29%
$14,296,000
14%
$36,810,000
35%
Capital
Water Purchases
Water Operations
Wastewater Operations
Debt Service
Easements, Vehicles & Equipment

2023-24 OPERATING BUDGET

WATER

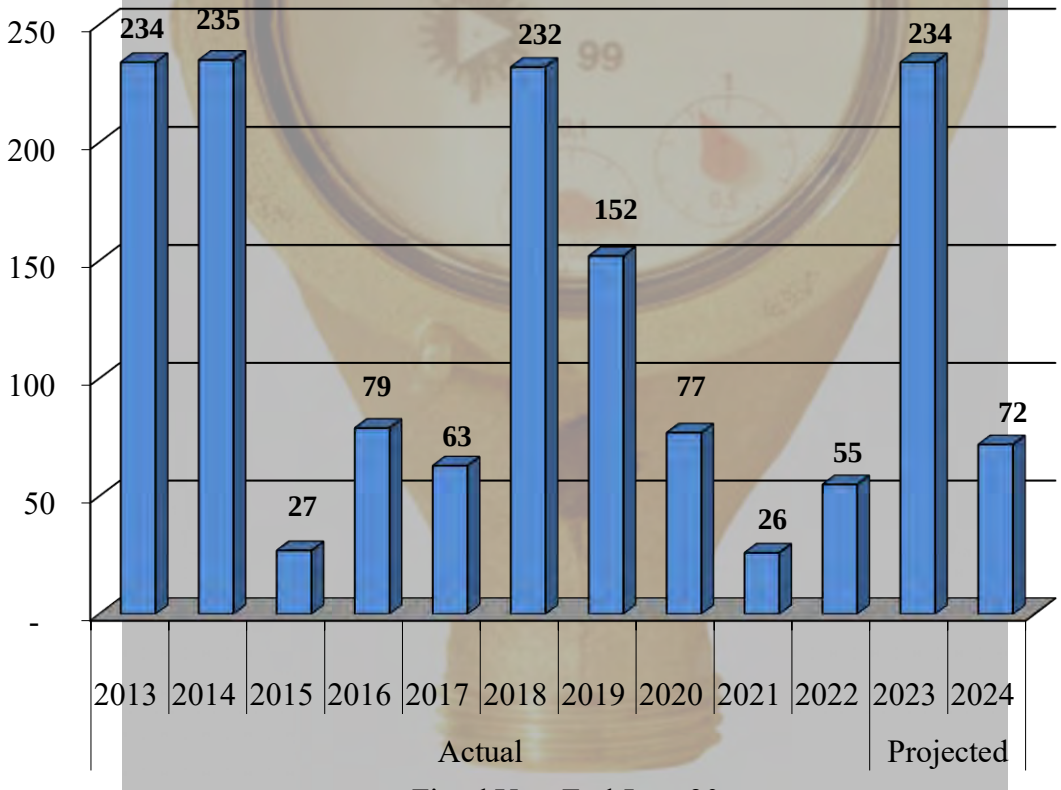
Double Peak Tank

METERS IN SERVICE

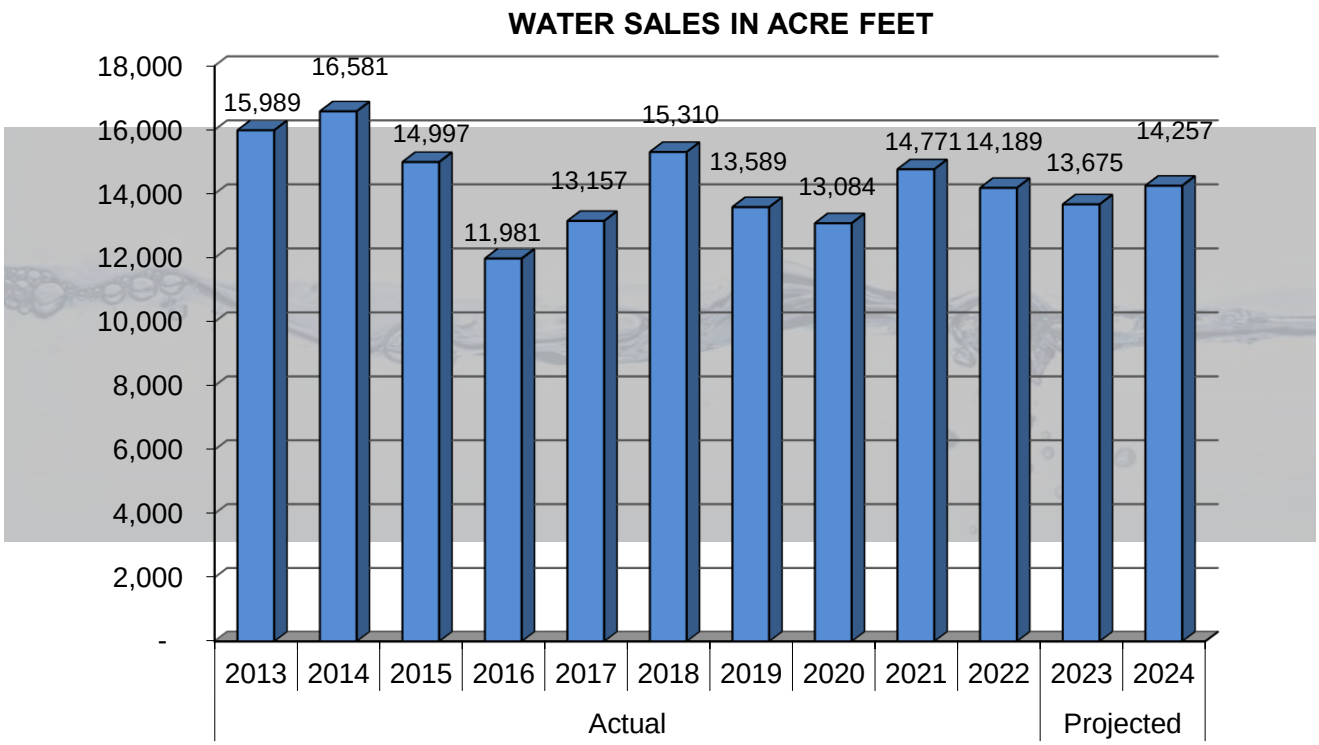


Fiscal Year End June 30

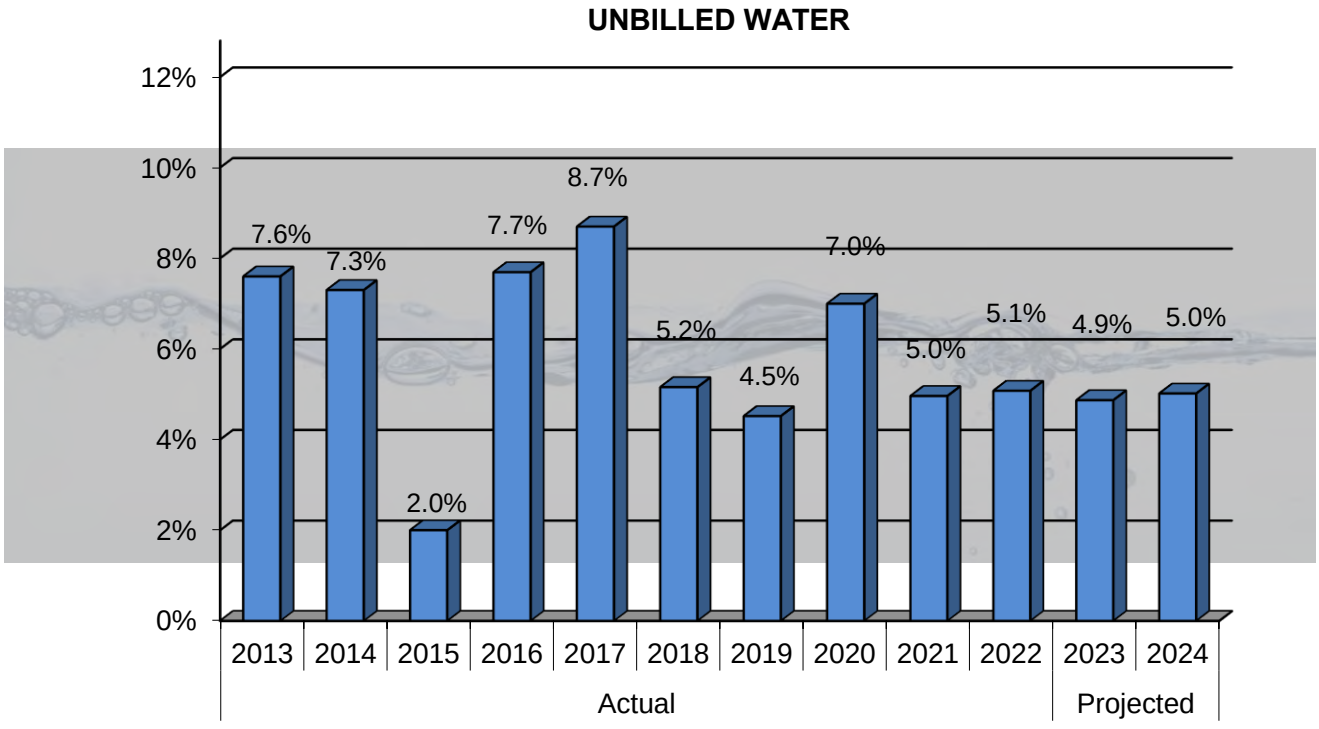
METER ADDITIONS



Fiscal Year End June 30



Year End June 30



Year End June 30

Unbilled Water includes one-day permit use, tie-ins, operational use, fire hydrant damage and use, meter malfunctions, leaks, and timing differences

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

FUNCTION DEFINITIONS - WATER OPERATIONS

REVENUES

Water Sales: 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.

Ready To Serve: 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.

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

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

OPERATING EXPENSES

Water Purchases: 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.

Pumping: 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.

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

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

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

Transmission and Distribution: Maintenance of pipeline system within 45 square miles, consisting of 379 miles of pipes. Includes 26 pressure reducing stations, 3 (internal) flow control facilities, all air releases/blow-offs, fire hydrant laterals (not including the hydrant), cross-tie valves with other districts, and valve exercising.

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

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

Meters: Reading approximately 22,000 meters monthly for billing purposes as well as maintenance of all customer meters.

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

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

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

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

Engineering: 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.

Safety and Regulatory Affairs: 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.

Information Technology: 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.

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

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, 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.

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

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.

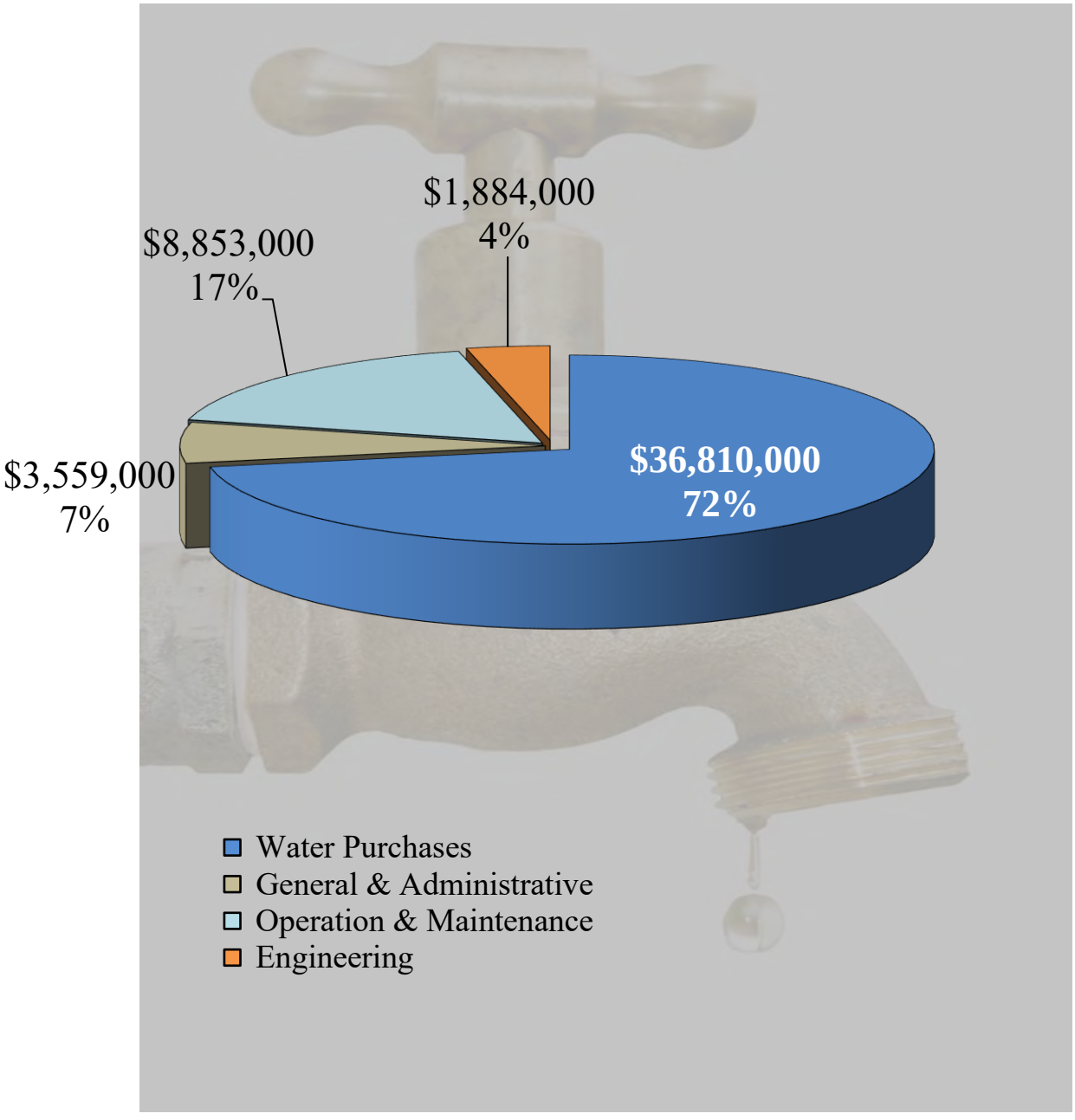
Director Fees are paid for attendance of board meetings, professional conferences, and other District-sanctioned organizations.

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.

2023-24 WATER OPERATING EXPENSE BUDGET
$51,106,000



VALLECITOS WATER DISTRICT

WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
OPERATING REVENUES						
Water Sales	*4001*	$ 31,505,160	$ 31,732,000	$ 29,349,000	$ 33,840,000	$ 36,080,000
Ready to Serve	*4003*	14,735,282	14,850,000	14,974,000	15,560,000	16,330,000
Pumping Charges	*4002*	407,955	435,000	421,000	435,000	445,000
Interest	*4401*	5,000	5,000	5,000	5,000	5,000
Other	*Various*	1,165,183	717,000	417,000	746,000	756,000
Total Revenue		47,818,580	47,739,000	45,166,000	50,586,000	53,616,000
OPERATING EXPENSES						
Water Purchases	*1010*	33,300,988	34,405,000	32,433,000	36,810,000	40,310,000
Pumping	*2010*	900,965	829,000	741,000	825,000	822,000
Water Quality	*2020*	205,423	144,000	112,000	194,000	158,000
Water Treatment	*2030*	498,947	508,000	596,000	638,000	704,000
Tanks & Reservoirs	*2040*	372,152	446,000	378,000	531,000	574,000
Transmission & Dist.	*2050*	1,858,034	1,889,000	2,077,000	2,066,000	2,270,000
Services	*2060*	61,760	82,000	116,000	130,000	135,000
Meters	*2070*	710,193	993,000	709,000	896,000	877,000
Backflow Prevention	*2080*	89,248	84,000	96,000	86,000	85,000
Customer Accounts	*4010*	638,038	887,000	748,000	815,000	910,000
Equipment & Vehicles	*4210*	242,804	357,000	329,000	366,000	422,000
Buildings & Grounds	*4110*	632,756	559,000	547,000	644,000	657,000
Engineering	*5010*	1,996,982	1,697,000	1,621,000	1,884,000	1,938,000
Safety & Reg. Affairs	*5210*	221,086	382,000	266,000	381,000	339,000
Information Technology	*6230*	952,327	1,143,000	1,084,000	1,281,000	1,298,000
General & Admin.	*6xxx*	2,815,406	3,310,000	3,091,000	3,559,000	3,753,000
Total Expense		45,497,109	47,715,000	44,944,000	51,106,000	55,252,000
OPERATING INCOME		2,321,471	24,000	222,000	(520,000)	(1,636,000)
LESS TRANSFERS TO/(FROM) REPLACEMENT RESERVE		2,321,471	24,000	222,000	(520,000)	(1,636,000)
NET INCOME		$ -	$ -	$ -	$ -	$ -

VALLECITOS WATER DISTRICT

WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
WATER PURCHASES	*5001*	$ 33,300,988	$ 34,405,000	$ 32,433,000	$ 36,810,000	$ 40,310,000
PUMPING						
Cost of Labor	*2010xxx.51xx*	73,885	122,000	100,000	133,000	151,000
Materials & Supplies	*" .53xx*	32,312	65,000	39,000	113,000	40,000
Outside Repair/Service	*" .54xx*	180,636	83,000	43,000	20,000	21,000
Power	*" .5306*	614,132	559,000	559,000	559,000	610,000
Total Pumping		900,965	829,000	741,000	825,000	822,000
WATER QUALITY						
Cost of Labor	*2020000.51xx*	60,659	58,000	34,000	57,000	63,000
Materials & Supplies	*" .53xx*	34,226	54,000	45,000	95,000	50,000
Outside Repair/Service	*" .54xx*	110,538	32,000	33,000	42,000	45,000
Total Water Quality		205,423	144,000	112,000	194,000	158,000
WATER TREATMENT						
Cost of Labor	*2030000.51xx*	431,465	415,000	497,000	537,000	589,000
Materials & Supplies	*" .53xx*	22,886	58,000	46,000	65,000	75,000
Outside Repair/Service	*" .54xx*	14,583	23,000	21,000	24,000	27,000
Power	*" .5306*	30,013	12,000	32,000	12,000	13,000
Total Water Treatment		498,947	508,000	596,000	638,000	704,000
TANKS & RESERVOIRS						
Cost of Labor	*2040xxx.51xx*	231,593	205,000	209,000	280,000	313,000
Materials & Supplies	*" .53xx*	27,435	24,000	21,000	39,000	40,000
Outside Repair/Service	*" .54xx*	104,700	209,000	140,000	204,000	212,000
Power	*" .5306*	8,424	8,000	8,000	8,000	9,000
Total Tanks & Reservoirs		372,152	446,000	378,000	531,000	574,000
TRANSMISSION & DISTRIBUTION						
Cost of Labor	*2050xxx.51xx*	1,226,588	1,185,000	1,499,000	1,315,000	1,471,000
Materials & Supplies	*" .53xx*	342,647	331,000	293,000	374,000	392,000
Outside Repair	*" .54xx*	274,084	360,000	272,000	364,000	392,000
Power	*" .5306*	14,715	13,000	13,000	13,000	15,000
Total Trans. & Dist.		1,858,034	1,889,000	2,077,000	2,066,000	2,270,000
SERVICES						
Cost of Labor	*2060xxx.51xx*	39,463	45,000	74,000	68,000	75,000
Materials & Supplies	*" .53xx*	17,068	12,000	28,000	12,000	12,000
Outside Repair	*" .54xx*	5,229	25,000	14,000	50,000	48,000
Total Services		61,760	82,000	116,000	130,000	135,000

VALLECITOS WATER DISTRICT

WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
METERS						
Cost of Labor	*2070xxx.51xx*	$ 643,164	$ 829,000	$ 639,000	$ 730,000	$ 805,000
Materials & Supplies	*" .53xx*	61,749	123,000	47,000	125,000	61,000
Outside Service/Repair	*" .54xx*	5,280	41,000	23,000	41,000	11,000
Total Meters		710,193	993,000	709,000	896,000	877,000
BACKFLOW PREVENTION						
Cost of Labor	*2080000.51xx*	35,099	25,000	30,000	27,000	31,000
Materials & Supplies	*" .53xx*	-	7,000	7,000	7,000	2,000
Outside Service	*" .54xx*	54,149	52,000	59,000	52,000	52,000
Total Backflow		89,248	84,000	96,000	86,000	85,000
CUSTOMER ACCOUNTS						
Cost of Labor	*4010000.51xx*	547,790	593,000	573,000	617,000	679,000
Materials & Supplies	*" .53xx*	39,758	127,000	93,000	121,000	124,000
Outside Service/Repair	*" .54xx*	37,681	48,000	60,000	46,000	61,000
Uncollectible Accts.	*" .5703*	12,809	119,000	22,000	31,000	46,000
Total Cust. Accts.		638,038	887,000	748,000	815,000	910,000
EQUIPMENT & VEHICLES						
Cost of Labor	*4210000.51xx*	86,945	148,000	103,000	138,000	150,000
Materials & Supplies	*" .53xx*	51,244	69,000	76,000	78,000	81,000
Fuel	*" .5307*	94,730	100,000	117,000	110,000	150,000
Outside Repair	*" .54xx*	9,885	40,000	33,000	40,000	41,000
Total Equip. & Vehicles		242,804	357,000	329,000	366,000	422,000
BUILDINGS & GROUNDS						
Cost of Labor	*4110000.51xx*	278,218	223,000	288,000	296,000	299,000
Materials & Supplies	*" .53xx*	72,990	83,000	67,000	100,000	103,000
Outside Services	*" .54xx*	203,887	153,000	105,000	148,000	152,000
Power	*" .5306*	77,661	100,000	87,000	100,000	103,000
Total Bldg. & Grnd.		632,756	559,000	547,000	644,000	657,000
ENGINEERING						
Cost of Labor	*5010000.51xx*	1,643,253	1,530,000	1,453,000	1,641,000	1,781,000
Materials & Supplies	*" .53xx*	14,731	34,000	27,000	46,000	28,000
Outside Services	*" .54xx*	338,998	133,000	141,000	197,000	129,000
Total Engineering		1,996,982	1,697,000	1,621,000	1,884,000	1,938,000

VALLECITOS WATER DISTRICT

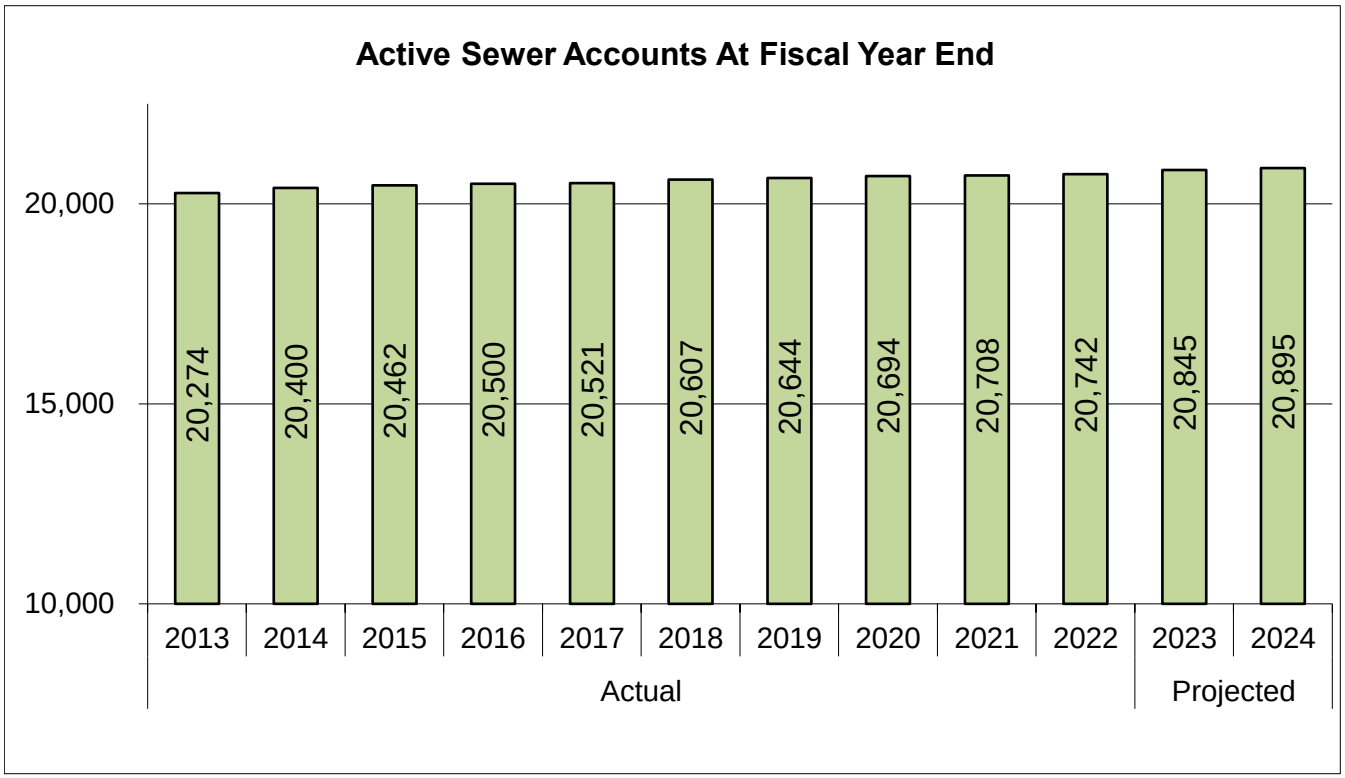
WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

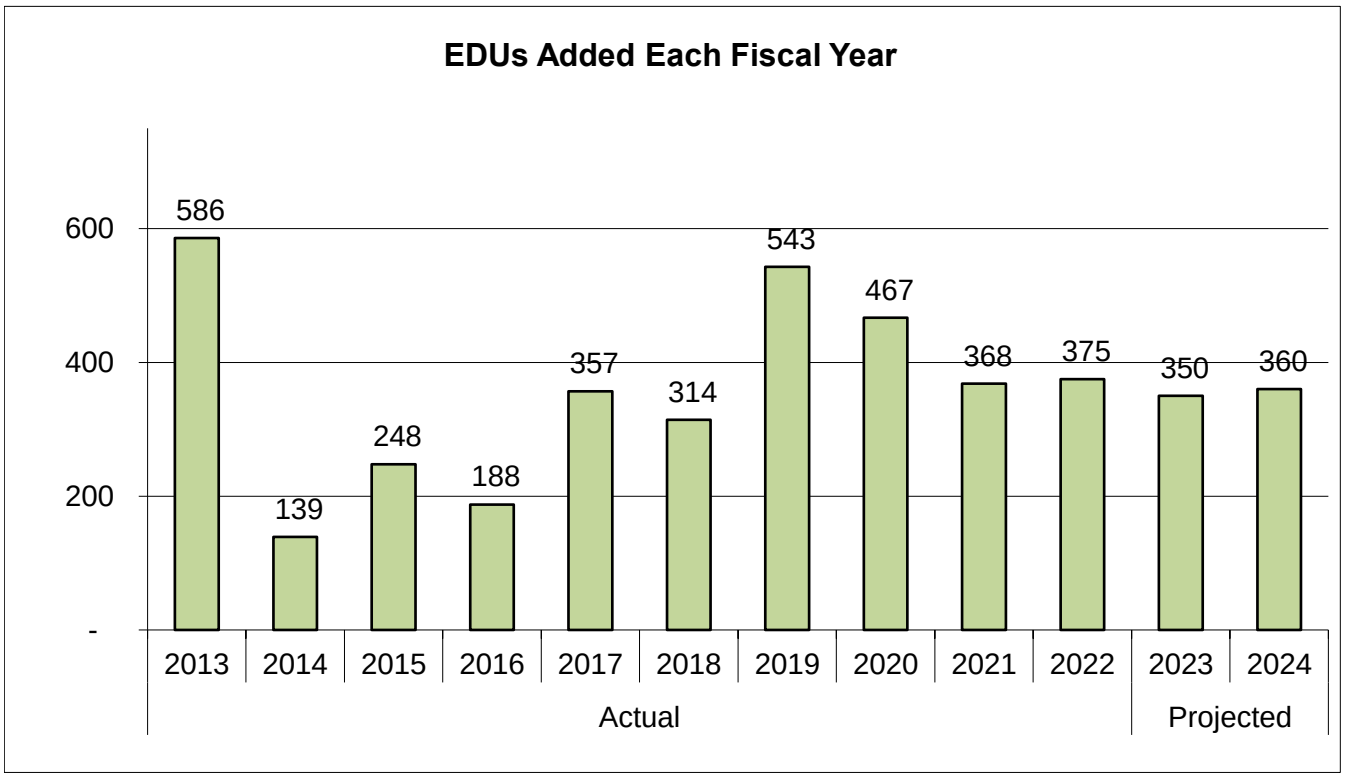
		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
SAFETY & REG. AFFAIRS						
Cost of Labor	*5210000.51xx*	$ 136,722	$ 251,000	$ 158,000	$ 247,000	$ 278,000
Materials & Supplies	*" .53xx*	11,005	21,000	19,000	16,000	16,000
Safety Support	*" .54xx*	73,359	110,000	89,000	118,000	45,000
Total Safety		221,086	382,000	266,000	381,000	339,000
INFORMATION TECHNOLOGY						
Cost of Labor	*6230000.51xx*	524,593	641,000	524,000	694,000	766,000
Materials & Supplies	*" .53xx*	100,742	36,000	76,000	42,000	43,000
Outside Services	*" .54xx*	326,992	466,000	484,000	545,000	489,000
Total Information Tech		952,327	1,143,000	1,084,000	1,281,000	1,298,000
GENERAL & ADMINISTRATION						
Cost of Labor	*6xxxxx.51xx*	2,983,345	3,145,000	2,991,000	3,330,000	3,696,000
Directors Fees	*" .5101*	89,406	94,000	76,000	94,000	96,000
District Insurance	*" .5201*	121,924	180,000	138,000	198,000	222,000
Travel	*" .5202*	3,320	23,000	14,000	24,000	26,000
Meetings & Seminars	*" .5203*	10,631	24,000	17,000	35,000	36,000
Dues & Subscriptions	*" .5204*	82,526	85,000	81,000	72,000	74,000
Directors Expenses	*" .5205*	28,599	50,000	45,000	50,000	51,000
Office Supplies	*" .5301*	22,016	39,000	22,000	40,000	41,000
Awareness/Conservation	*" .5303*	114,966	119,000	104,000	129,000	132,000
Postage	*" .5304*	1,530	3,000	2,000	3,000	3,000
Outside Services	*" .5401*	80,009	105,000	93,000	88,000	90,000
Legal	*" .5402*	137,809	170,000	142,000	170,000	183,000
Auditing	*" .5403*	11,845	13,000	13,000	14,000	16,000
Bank/Investment Svcs	*" .5501*	23,599	25,000	24,000	25,000	26,000
Regulatory Fees	*" .5502*	74,953	118,000	116,000	254,000	125,000
Election & Annexation	*" .5503*	-	2,000	-	2,000	2,000
Other/Reimbursements		59,448	10,000	31,000	10,000	10,000
Admin Credit Transfer.	*4702*	(1,030,521)	(895,000)	(818,000)	(979,000)	(1,076,000)
Total Gen. & Admin.		2,815,406	3,310,000	3,091,000	3,559,000	3,753,000
TOTAL EXPENSES		$ 45,497,109	$ 47,715,000	$ 44,944,000	$ 51,106,000	$ 55,252,000

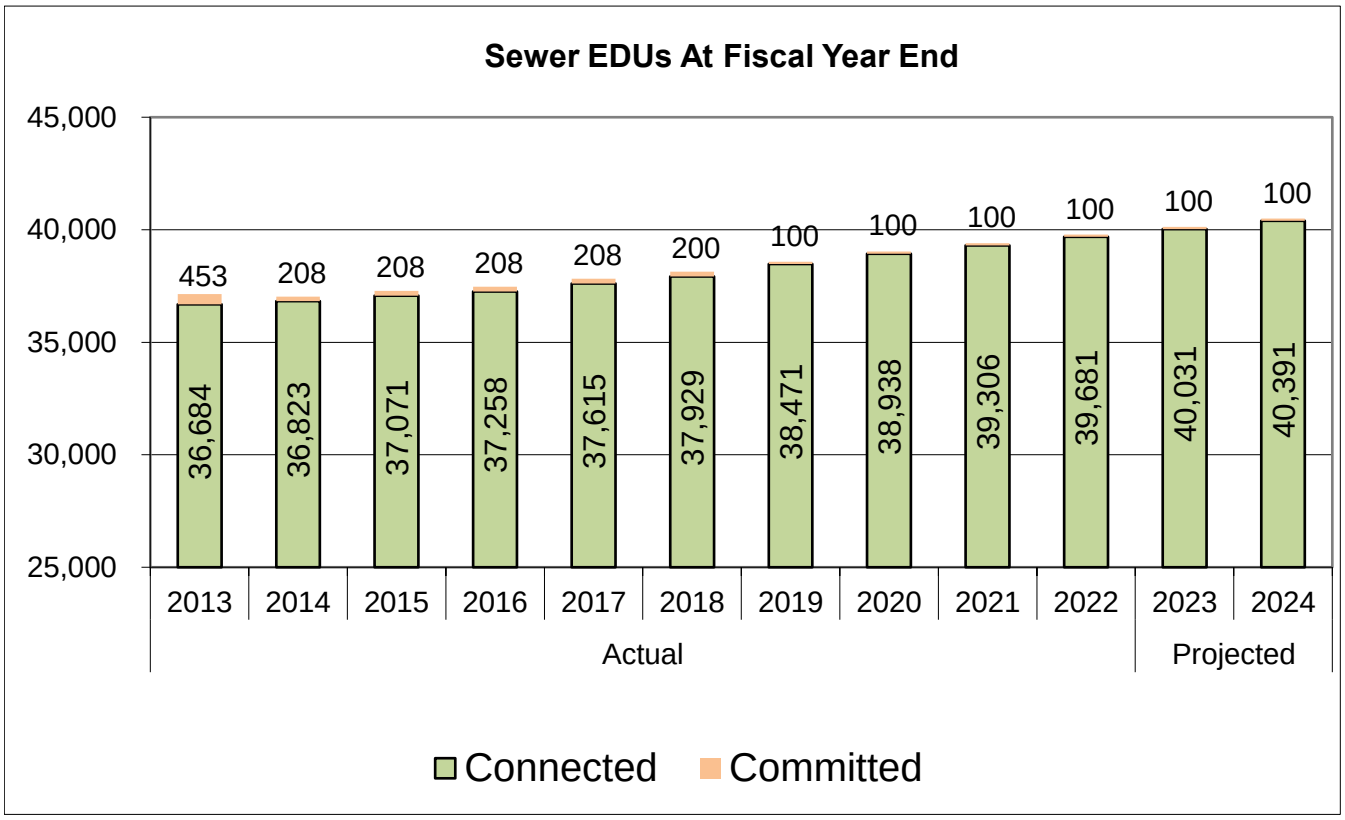
2023-24 OPERATING BUDGET

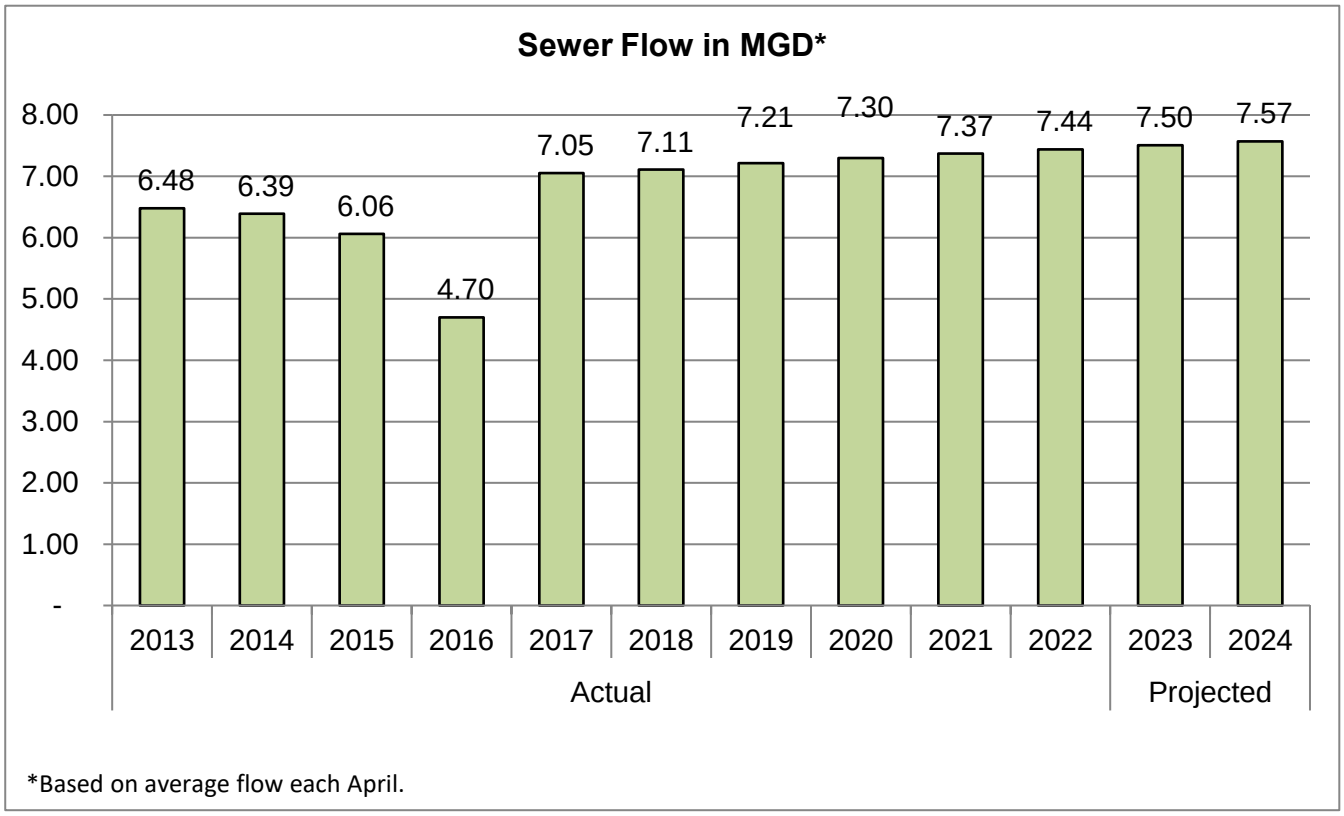
WASTEWATER

Chlorine Contact Tank at Meadowlark Wastewater Reclamation Facility


Active Sewer Accounts At Fiscal Year End
20,000
15,000
10,000
20,274
20,400
20,462
20,500
20,521
20,607
20,644
20,694
20,708
20,742
20,845
20,895
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Actual
Projected


EDUs Added Each Fiscal Year
600
400
200
-
586
139
248
188
357
314
543
467
368
375
350
360
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Actual
Projected





*Based on average flow each April.

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

FUNCTION DEFINITIONS - WASTEWATER OPERATIONS

REVENUES

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

Reclaimed Water Sales: 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

Collection and Conveyance: Maintaining flow in 276 miles of District sewer lines. Includes blockage removal, television inspection, and maintenance of pipeline system and manholes.

Lift Stations: Cost of lifting sewage flows at the Montiel Lift Station, Lake San Marcos Lift Station and Questhaven Lift Station. Includes maintenance and power costs of the pumping systems.

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

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

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

Customer Accounts: Responds to customers, associated billing costs, and uncollectible accounts.

Equipment and Vehicles: 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.

BUDGET FOR THE YEAR ENDING JUNE 30, 2024

FUNCTION DEFINITIONS - WASTEWATER OPERATIONS (Continued)

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

Information Technology: 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.

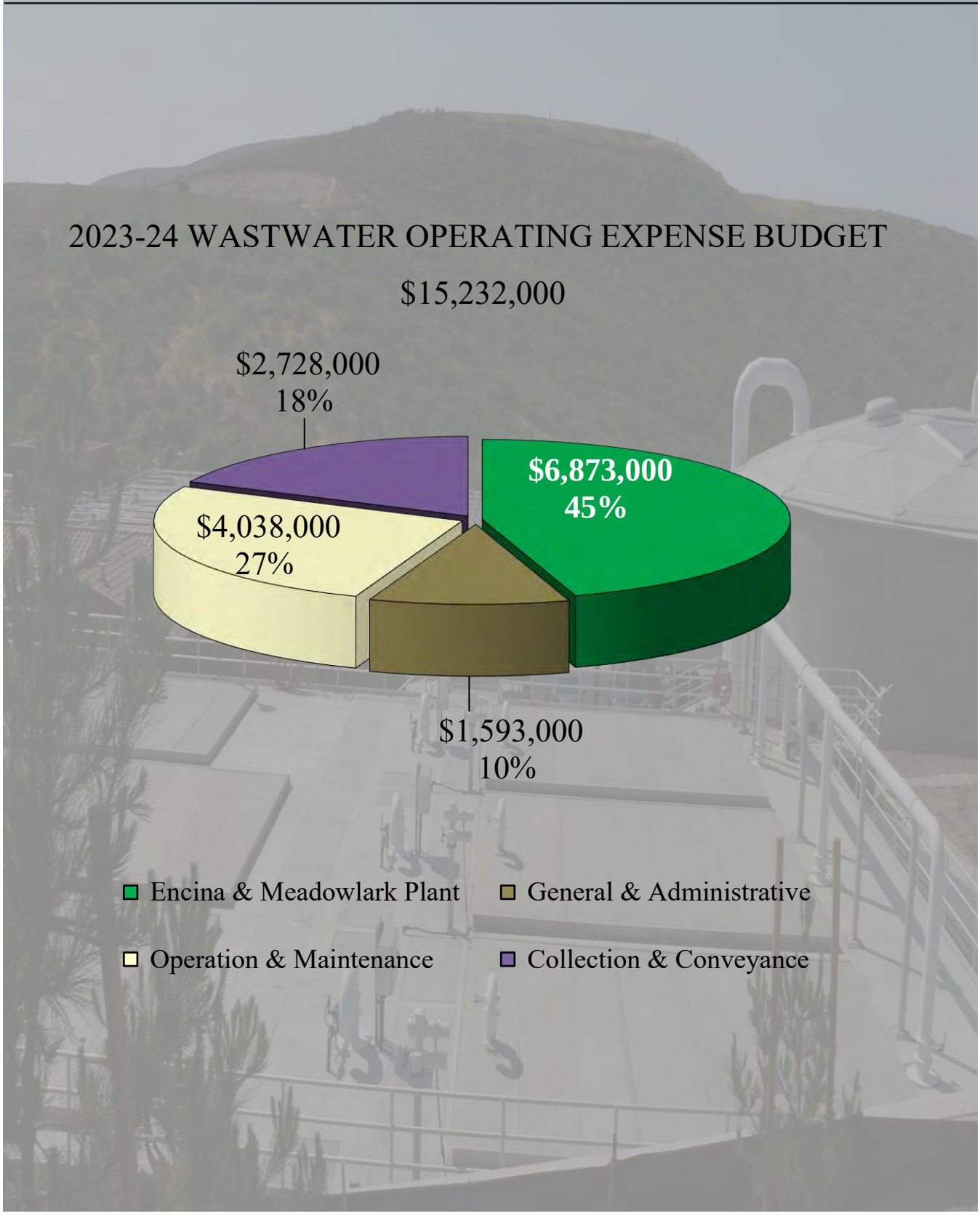
Travel costs for sewer personnel.

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.


2023-24 WASTWATER OPERATING EXPENSE BUDGET
$15,232,000
$2,728,000
18%
$6,873,000
45%
$4,038,000
27%
$1,593,000
10%
Encina & Meadowlark Plant
General & Administrative
Operation & Maintenance
Collection & Conveyance

VALLECITOS WATER DISTRICT

WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
OPERATING REVENUES						
Sewer Service	*4101*	$ 18,441,073	$ 18,222,000	$ 18,183,000	$ 18,250,000	$ 18,620,000
Reclaimed Water Sales	*4102*	2,801,135	3,080,000	3,014,000	3,197,000	3,257,000
Other	*Various*	351,918	281,000	241,000	297,000	304,000
Total Revenue		21,594,126	21,583,000	21,438,000	21,744,000	22,181,000
OPERATING EXPENSES						
Collection & Conveyance	*3010000*	2,231,995	2,684,000	2,563,000	2,728,000	2,887,000
Lift Stations	*3020000*	258,196	273,000	276,000	297,000	317,000
Source Control	*3060000*	196,638	212,000	204,000	220,000	245,000
Encina Disposal	*3070000*	2,964,671	3,304,000	3,303,000	3,735,000	3,847,000
Meadowlark Plant	*3410000*	2,610,505	2,915,000	2,931,000	3,138,000	3,242,000
Customer Accounts	*4010000*	445,311	596,000	560,000	557,000	600,000
Equipment & Vehicles	*4210000*	200,191	287,000	228,000	296,000	309,000
Buildings & Grounds	*4110000*	351,682	382,000	371,000	443,000	476,000
Engineering	*5010000*	789,715	875,000	784,000	954,000	980,000
Safety & Compliance	*5210000*	124,564	280,000	198,000	277,000	298,000
Information Technology	*6230000*	749,041	879,000	969,000	994,000	1,050,000
General & Admin.	*6xxx000*	1,357,149	1,550,000	1,753,000	1,593,000	1,749,000
Total Expense		12,279,658	14,237,000	14,140,000	15,232,000	16,000,000
OPERATING INCOME		9,314,468	7,346,000	7,298,000	6,512,000	6,181,000
LESS: TRANSFERS TO REPLACEMENT RESERVE		9,314,468	7,346,000	7,298,000	6,512,000	6,181,000
NET INCOME		$ -	$ -	$ -	$ -	$ -

VALLECITOS WATER DISTRICT

WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
COLLECTION/CONVEYANCE						
Cost of Labor	*3010xxx.51xx*	$ 1,658,335	$ 1,775,000	$ 1,754,000	$ 1,871,000	$ 2,009,000
Materials & Supplies	*" .53xx*	132,562	145,000	150,000	127,000	130,000
Chemicals	*" .5350*	317,192	485,000	454,000	455,000	466,000
Outside Services/Power	*" .5xxx*	123,906	279,000	205,000	275,000	282,000
Total Collection/Conveyance		2,231,995	2,684,000	2,563,000	2,728,000	2,887,000
LIFT STATIONS						
Cost of Labor	*3020xxx.51xx*	146,222	140,000	129,000	148,000	164,000
Materials & Supplies	*" .53xx*	14,739	30,000	32,000	49,000	50,000
Outside Services	*" .54xx*	46,013	71,000	68,000	68,000	70,000
Power	*" .5306*	51,222	32,000	47,000	32,000	33,000
Total Lift Stations		258,196	273,000	276,000	297,000	317,000
SOURCE CONTROL						
Cost of Labor	*3060000.51xx*	177,925	177,000	177,000	185,000	209,000
Materials & Supplies	*" .53xx*	18,713	27,000	21,000	27,000	28,000
Outside Services	*" .54xx*	-	8,000	6,000	8,000	8,000
Total Industrial Waste		196,638	212,000	204,000	220,000	245,000
ENCINA DISPOSAL	*3070000.551*	2,964,671	3,304,000	3,303,000	3,735,000	3,847,000
MEADOWLARK LIFT STATION						
Cost of Labor	*3710000.51xx*	65,642	75,000	84,000	80,000	90,000
Materials & Supplies	*" .53xx*	21,076	62,000	22,000	72,000	74,000
Chemicals	*" .5350*	90,895	175,000	151,000	155,000	159,000
Outside Services	*" .54xx*	26,707	43,000	62,000	18,000	18,000
Power	*" .5306*	61,258	35,000	55,000	35,000	36,000
Total Meadowlark Lift Station		265,578	390,000	374,000	360,000	377,000

VALLECITOS WATER DISTRICT

WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
MEADOWLARK PLANT						
Cost of Labor	*3410000.51xx*	$ 999,608	$ 1,097,000	$ 1,007,000	$ 1,198,000	$ 1,335,000
Materials & Supplies	*" .53xx*	205,318	381,000	284,000	359,000	308,000
Chemicals	*" .5350*	282,038	245,000	508,000	350,000	359,000
Outside Services	*" .54xx*	240,341	279,000	307,000	321,000	289,000
Power	*" .5306*	377,438	210,000	184,000	230,000	237,000
Total Meadowlark Plant		2,104,743	2,212,000	2,290,000	2,458,000	2,528,000
MAHR RESERVOIR						
Cost of Labor	*3810000.51xx*	86,034	101,000	77,000	112,000	125,000
Materials & Supplies	*" .53xx*	48,754	25,000	39,000	30,000	31,000
Chemicals	*" .5350*	26,408	40,000	34,000	40,000	39,000
Outside Services	*" .54xx*	16,978	82,000	62,000	73,000	75,000
Power	*" .5306*	62,010	65,000	55,000	65,000	67,000
Total Mahr Reservoir		240,184	313,000	267,000	320,000	337,000
CUSTOMER ACCOUNTS						
Cost of Labor	*4010000.51xx*	357,737	368,000	390,000	397,000	436,000
Materials & Supplies	*" .53xx*	38,113	119,000	101,000	108,000	111,000
Outside Services	*" .54xx*	36,492	47,000	58,000	39,000	40,000
Uncollectible Accts.	*" .5703*	12,969	62,000	11,000	13,000	13,000
Total Cust. Accts.		445,311	596,000	560,000	557,000	600,000
EQUIPMENT & VEHICLES						
Cost of Labor	*4210000.51xx*	133,732	160,000	143,000	169,000	184,000
Materials & Supplies	*" .53xx*	16,612	57,000	30,000	57,000	58,000
Fuel	*" .5307*	42,056	45,000	45,000	45,000	56,000
Outside Services	*" .54xx*	7,791	25,000	10,000	25,000	11,000
Total Equip. & Veh.		200,191	287,000	228,000	296,000	309,000
BUILDINGS & GROUNDS						
Cost of Labor	*4110000.51xx*	93,750	84,000	124,000	136,000	161,000
Materials & Supplies	*" .53xx*	59,861	65,000	58,000	81,000	83,000
Outside Services	*" .54xx*	123,862	138,000	100,000	131,000	134,000
Power	*" .5306*	74,209	95,000	89,000	95,000	98,000
Total Buildings & Grounds		351,682	382,000	371,000	443,000	476,000
ENGINEERING						
Cost of Labor	*5010000.51xx*	596,179	694,000	596,000	718,000	787,000
Materials & Supplies	*" .53xx*	8,605	33,000	26,000	44,000	45,000
Outside Services	*" .54xx*	184,931	148,000	162,000	192,000	148,000
Total Engineering		789,715	875,000	784,000	954,000	980,000

VALLECITOS WATER DISTRICT

WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2024

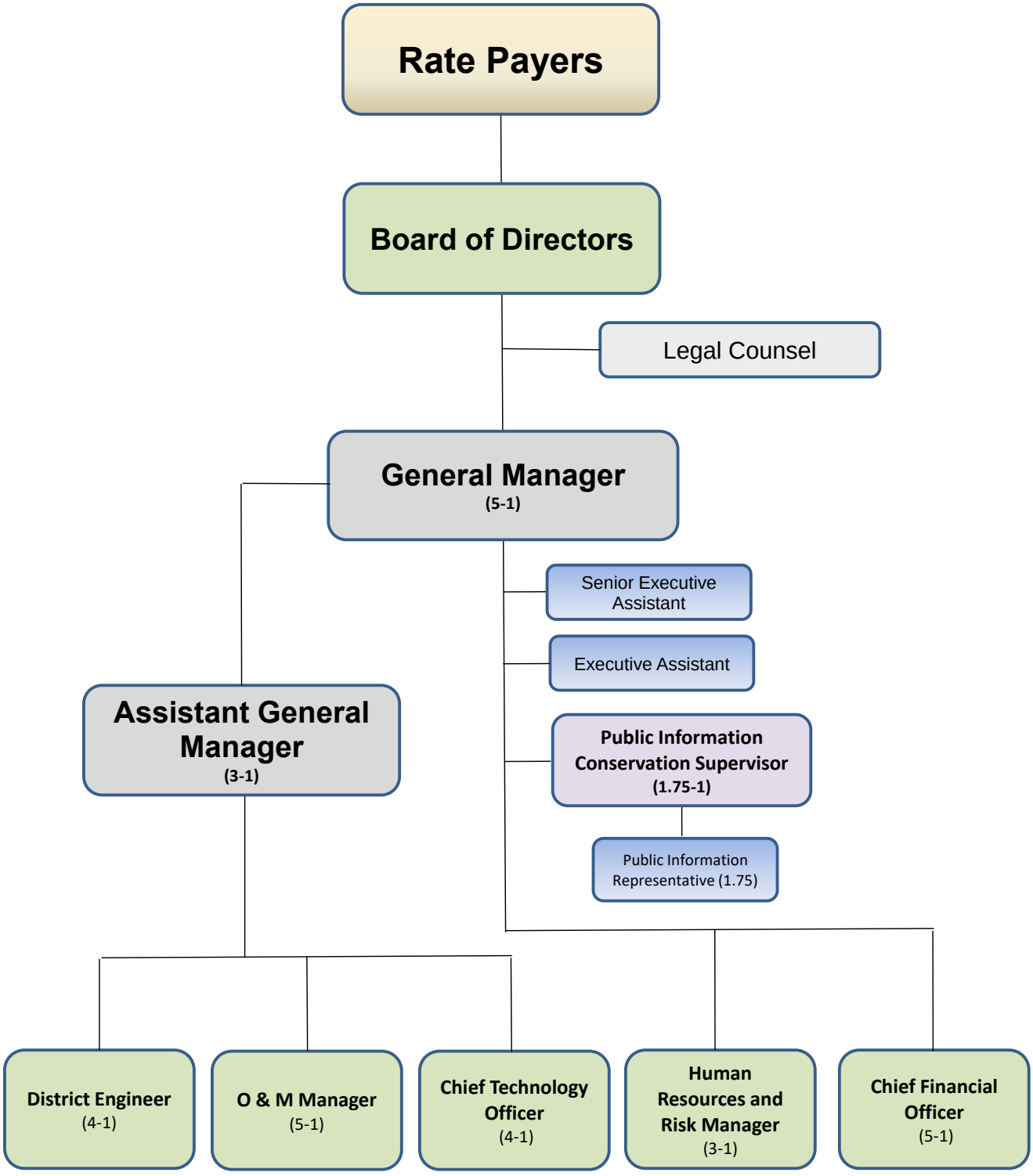
		Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
SAFETY & REGULATORY AFFAIRS						
Cost of Labor	*5210000.51xx*	$ 75,655	$ 151,000	$ 89,000	$ 145,000	$ 163,000
Materials & Supplies	*" .53xx*	9,585	21,000	14,000	16,000	16,000
Safety Support	*" .54xx*	39,324	108,000	95,000	116,000	119,000
Total Safety/Reg Affairs		124,564	280,000	198,000	277,000	298,000
INFORMATION TECH						
Cost of Labor	*6230000.51xx*	321,017	376,000	340,000	406,000	447,000
Materials & Supplies	*" .53xx*	95,914	35,000	75,000	40,000	41,000
Outside Services	*" .54xx*	332,110	468,000	554,000	548,000	562,000
Total Information Tech		749,041	879,000	969,000	994,000	1,050,000
GENERAL & ADMINISTRATION						
Cost of Labor	*6xxxxx.51xx*	1,325,302	1,506,000	1,644,000	1,609,000	1,753,000
Directors Fees	*" .5101*	64,633	65,000	54,000	65,000	67,000
District Insurance	*" .5201*	117,143	115,000	132,000	115,000	128,000
Travel	*" .5202*	-	16,000	12,000	17,000	17,000
Meetings & Seminars	*" .5203*	7,244	19,000	17,000	22,000	23,000
Dues & Subscriptions	*" .5204*	44,249	52,000	54,000	72,000	74,000
Office Supplies	*" .5301*	12,657	18,000	16,000	20,000	21,000
Postage	*" .5304*	-	3,000	2,000	3,000	3,000
Outside Services	*" .5401*	54,054	123,000	97,000	155,000	136,000
Legal	*" .5402*	130,779	170,000	136,000	170,000	183,000
Auditing	*" .5403*	7,595	13,000	13,000	13,000	15,000
Bank/Investment Svcs	*" .5501*	22,593	25,000	23,000	25,000	26,000
Regulatory Fees	*" .5502*	2,118	44,000	41,000	45,000	46,000
Other	*" .5702*	45,059	5,000	1,000	5,000	5,000
Admin Credit Trans	*4702*	(476,277)	(624,000)	(489,000)	(743,000)	(748,000)
Total Gen. & Admin.		1,357,149	1,550,000	1,753,000	1,593,000	1,749,000
TOTAL EXPENSES		$ 12,279,658	$ 14,237,000	$ 14,140,000	$ 15,232,000	$ 16,000,000

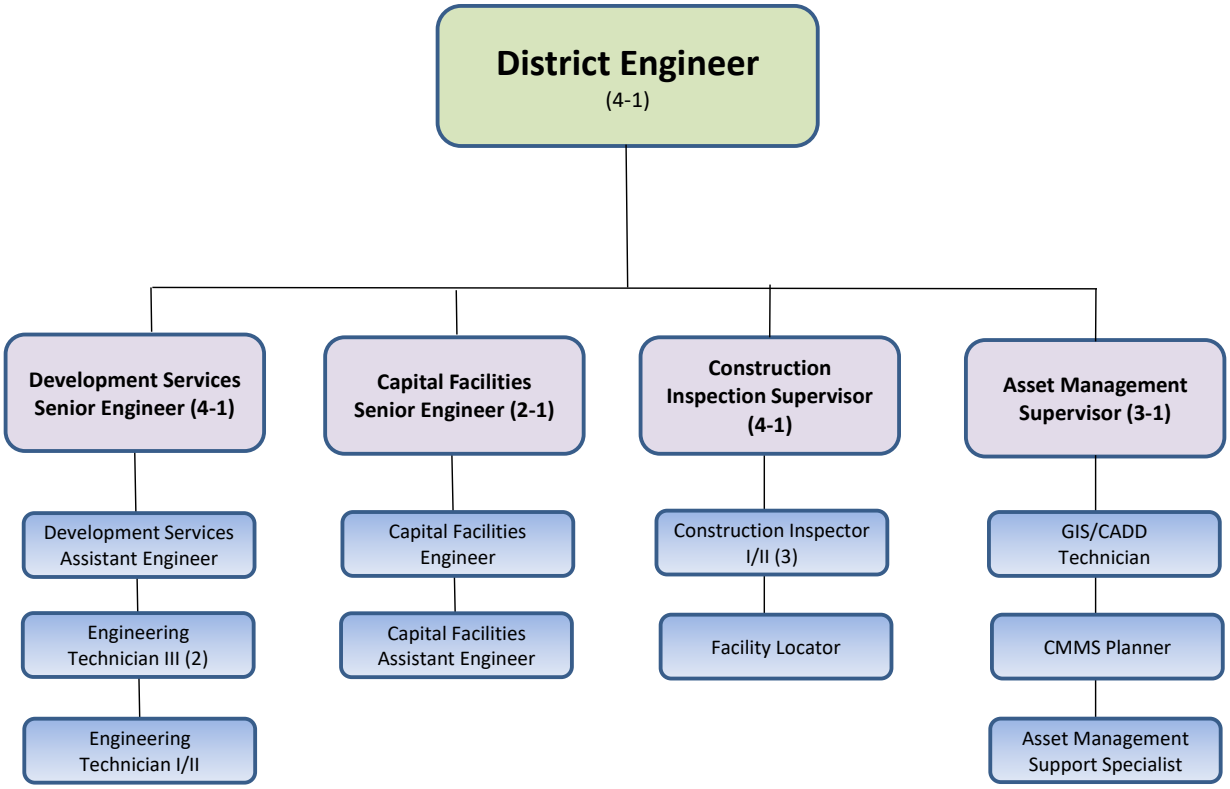
BUDGET FOR THE YEAR ENDING JUNE 30, 2024

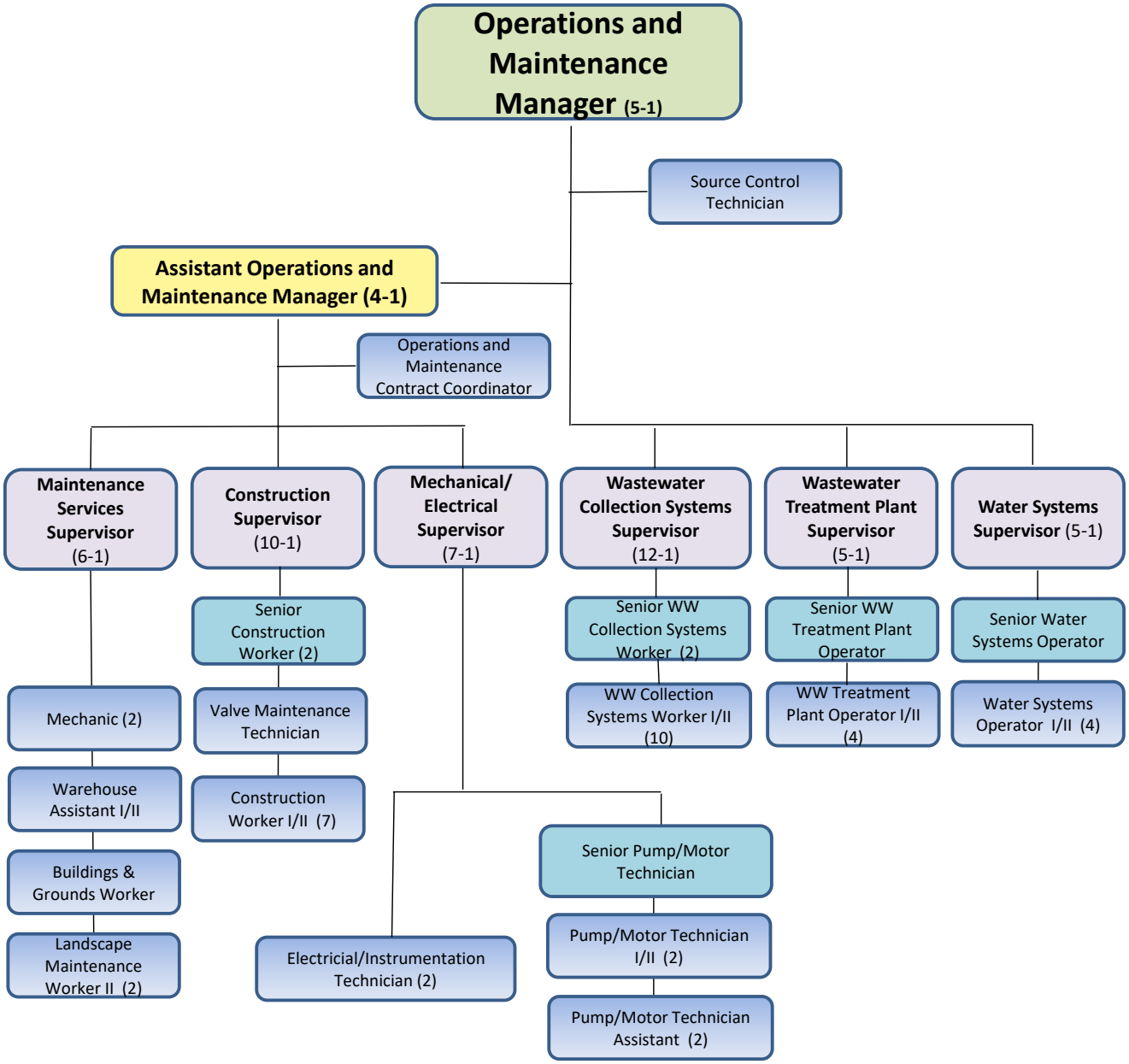
SALARY AND BENEFIT RECAP

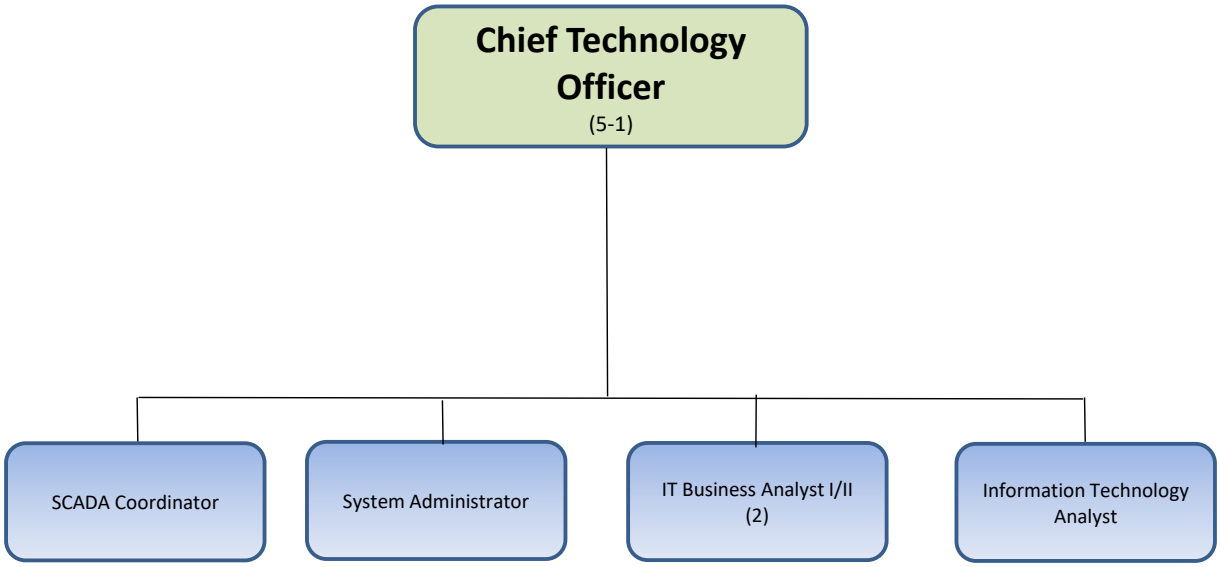
	Actual FY 21-22	Budget FY 22-23	Projected FY 22-23	Budget FY 23-24	Estimated FY 24-25
SALARIES					
Water Operations	$ 5,764,688	$ 5,981,000	$ 5,876,000	$ 6,578,000	$ 7,013,000
Wastewater Operations	3,861,094	4,259,000	3,979,000	4,668,000	4,947,000
Subtotal	9,625,782	10,240,000	9,855,000	11,246,000	11,960,000
Labor Posted to Work Orders*	774,503	715,000	814,000	810,000	828,000
TOTAL SALARIES	10,400,285	10,955,000	10,669,000	12,056,000	12,788,000
BENEFITS					
Public Employee Retirement	2,013,076	2,134,000	2,125,000	1,730,000	2,557,000
Group Insurance	2,391,890	2,477,000	2,709,000	2,813,000	2,920,000
Social Security	780,986	838,000	791,000	922,000	978,000
Workers' Comp Insurance	130,465	190,000	194,000	190,000	208,000
457 Contribution Match	170,116	218,000	184,000	338,000	338,000
Other Taxes and Benefits	15,174	22,000	17,000	45,000	49,000
TOTAL BENEFITS	5,501,707	5,879,000	6,020,000	6,038,000	7,050,000
TOTAL SALARIES & BENEFITS	$ 15,901,992	$ 16,834,000	$ 16,689,000	$ 18,094,000	$ 19,838,000
Benefits as a Percentage of Salaries	52.9%	53.7%	56.4%	50.1%	55.1%
Operations	55.00	55.00	55.00	56.00	56.00
Engineering	18.00	18.00	18.00	18.00	18.00
Finance	20.00	20.00	20.00	20.00	20.00
Administration	15.75	15.75	15.75	15.75	15.75
Total Funded FTEs	108.75	108.75	108.75	109.75	109.75

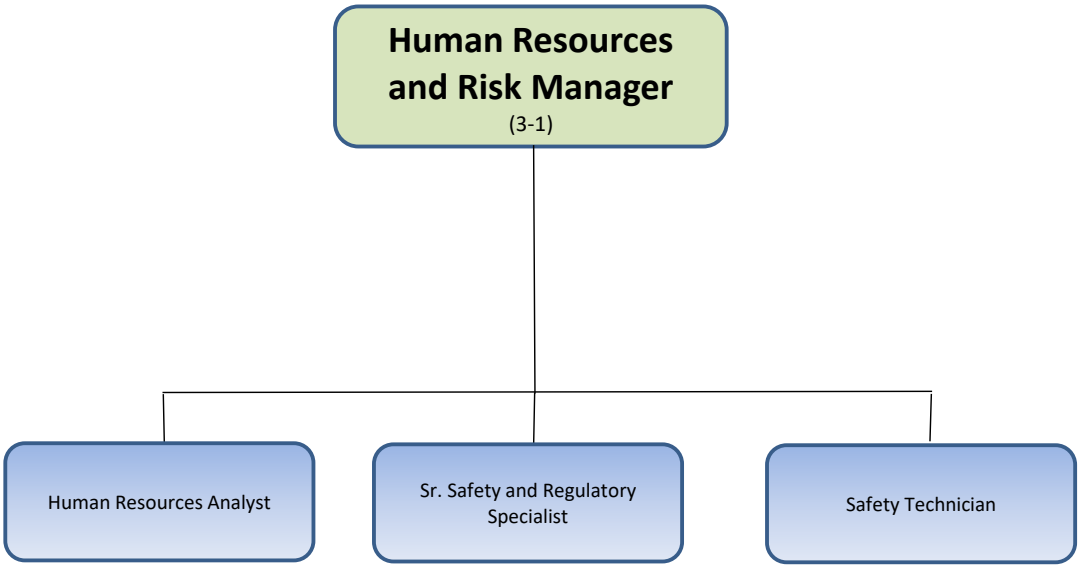
* There is also a labor overhead charge to work orders to cover benefit costs which are a part of the credit in the General and Administration sections of Water and Wastewater operations.

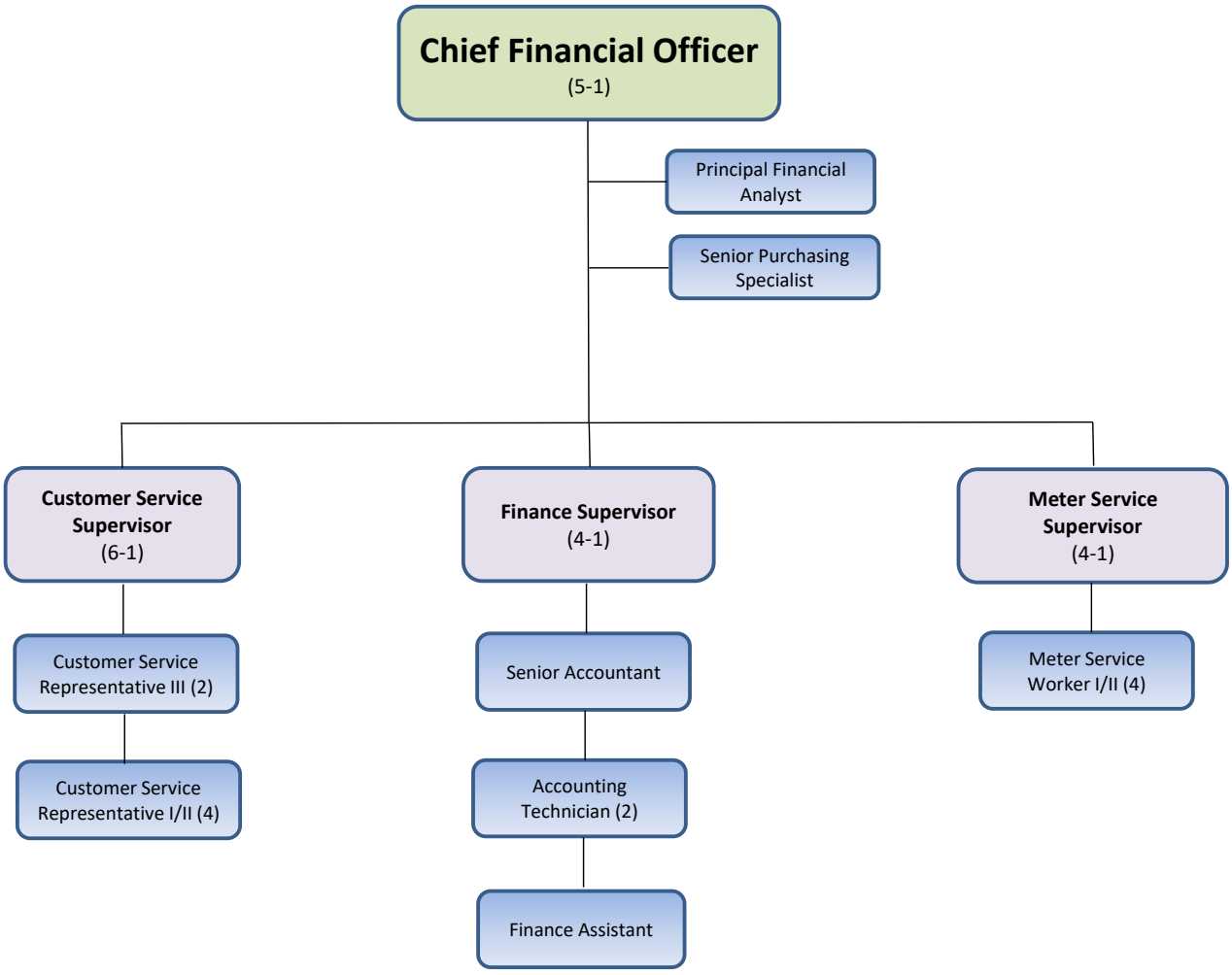

Rate Payers
Board of Directors
Legal Counsel
General Manager
(5-1)
Senior Executive Assistant
Executive Assistant
Assistant General Manager
(3-1)
Public Information Conservation Supervisor
(1.75-1)
Public Information Representative (1.75)
District Engineer
(4-1)
O & M Manager
(5-1)
Chief Technology Officer
(4-1)
Human Resources and Risk Manager
(3-1)
Chief Financial Officer
(5-1)


District Engineer
(4-1)
Development Services Senior Engineer (4-1)
Development Services Assistant Engineer
Engineering Technician III (2)
Engineering Technician I/II
Capital Facilities Senior Engineer (2-1)
Capital Facilities Engineer
Capital Facilities Assistant Engineer
Construction Inspection Supervisor (4-1)
Construction Inspector I/II (3)
Facility Locator
Asset Management Supervisor (3-1)
GIS/CADD Technician
CMMS Planner
Asset Management Support Specialist


Operations and Maintenance Manager (5-1)
Source Control Technician
Assistant Operations and Maintenance Manager (4-1)
Operations and Maintenance Contract Coordinator
Maintenance Services Supervisor (6-1)
Construction Supervisor (10-1)
Mechanical/ Electrical Supervisor (7-1)
Wastewater Collection Systems Supervisor (12-1)
Wastewater Treatment Plant Supervisor (5-1)
Water Systems Supervisor (5-1)
Senior Construction Worker (2)
Senior WW Collection Systems Worker (2)
Senior WW Treatment Plant Operator
Senior Water Systems Operator
Mechanic (2)
Valve Maintenance Technician
WW Collection Systems Worker I/II (10)
WW Treatment Plant Operator I/II (4)
Water Systems Operator I/II (4)
Warehouse Assistant I/II
Construction Worker I/II (7)
Buildings & Grounds Worker
Senior Pump/Motor Technician
Landscape Maintenance Worker II (2)
Electricial/Instrumentation Technician (2)
Pump/Motor Technician I/II (2)
Pump/Motor Technician Assistant (2)


Chief Technology Officer
(5-1)
SCADA Coordinator
System Administrator
IT Business Analyst I/II
(2)
Information Technology Analyst


Human Resources and Risk Manager
(3-1)
Human Resources Analyst
Sr. Safety and Regulatory Specialist
Safety Technician


Chief Financial Officer
(5-1)
Principal Financial Analyst
Senior Purchasing Specialist
Customer Service Supervisor
(6-1)
Customer Service Representative III (2)
Customer Service Representative I/II (4)
Finance Supervisor
(4-1)
Senior Accountant
Accounting Technician (2)
Finance Assistant
Meter Service Supervisor
(4-1)
Meter Service Worker I/II (4)

2023-24 PERSONNEL BUDGET

POSITIONS/PERSONNEL:

Management will scrutinize the need for all positions and only fill positions if absolutely necessary. The fiscal year 2023-24 budget includes one new position and five reclassifications as outlined below.

NEW POSITION:

Assistant Operations and Maintenance Manager- Estimated Additional Annual Cost: $197,000

The District Operations Department has approximately half of all District personnel (55) and only one Manager. Over the last several years new regulations on both the water and wastewater operations have placed more demand on the current Operations Manager. New approved regulations as well as future regulations will add to that workload. Operation specific projects have also increased in scope and quantity over the last several years as our facilities age. The scope difference between the supervisor and the current manager has made succession within the Operations department difficult. The Assistant Operations and Maintenance Manager will provide the capacity to address and report on new/future regulations, provide a higher level of project management, mentor and train supervisory staff, and allow proper succession potential to the Operations Manager position.

RECLASSIFICATIONS:

Engineering Services Assistant to Development Services Assistant Engineer - Estimated Annual Cost: $25,000

This is a reclass of the vacant Engineering Services Assistant classification. This position is needed to meet current and projected levels of workload, to backfill the loss of the Engineering Technician I with a position with a higher level of technical skills, and to plan for future succession of the Development Services Senior Engineer.

Electrical/Instrumentation Tech to SCADA Coordinator – Estimated Annual Cost: $5,000

The Electrical/Instrumentation Technician regularly assists the IT department with performing SCADA functions. A reclass is necessary so this position can be dedicated to SCADA projects that directly address results and recommendations of the SCADA Audit, and meet goals of the SCADA Master Plan.

Meter Services Supervisor to Meter Services Supervisor – Estimated Annual Cost: $8,000

The Meter Services Supervisor position has been restructured to include cross-connection and backflow responsibilities which increase the scope of the position. The job description has been revised, a market survey was performed, and it was determined that a reclass is necessary to fairly compensate the position for these new responsibilities. A title change is not being recommended at this time.

Senior Water Systems Operator to Senior Water Systems Operator – Estimated Annual Cost: $7,000

Water Systems Operators I/II/Supervisor currently have the same salary range as their corresponding positions at the treatment plant (Wastewater Treatment Plant Operators I/II/Supervisor). The Senior Water Systems Operator is 5% below Senior Wastewater Treatment Plant Operator. This is a 5% internal equity adjustment for the Senior Water Systems Operator, to match it to the corresponding position at the treatment plant.

Cashier Receptionist to Customer Service Representative I – Estimated Annual Cost: $0

The District has seen a decline in the number of customers coming in to pay their bills. As a result there is less need for a Cashier Receptionist. Reclassing the Cashier Receptionist to a Customer Service Representative I and changing the pay range of the Customer Service Representative I to the same as the Cashier Receptionist allows for more flexibility to provide customers the help they need at no additional cost to the District.

2023-24 PUBLIC AWARENESS AND CONSERVATION PROGRAM BUDGET

REBATE PROGRAMS *	Prj 2024100039	W/O 117447	
To encourage the purchase of qualified low flow devices, appliances, artificial turf or rebates to customers who remove their existing turf grass and install a low-water landscape (i.e., Cash for Grass program.)			$ 1,000
OUTREACH & ADVERTISING	Prj 2024100040	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.			52,900
VIDEO PRODUCTION	Prj 2024100041	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.			9,900
EDUCATION	Prj 2024100042	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.			51,500
COOPERATIVE PROGRAMS*	Prj 2024100043	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.			3,000
WATERWISE LANDSCAPE	Prj 2024100044	W/O 117453	
To promote low water use landscape and irrigation practices. Includes the cost for sponsoring, maintaining and upgrading water-wise 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.			7,300
MEMBERSHIPS & EQUIPMENT	Prj 2024100045	W/O 117454	
To maintain memberships in related organizations and committees and for the purchases of new or replacement equipment.			2,400
COMMERCIAL/INDUSTRIAL	Prj 2024100046	W/O 117455	
To assist large commercial and public agency customers by providing workshops, written materials, monetary incentives, and using outside consultants.			1,000
TOTAL PUBLIC AWARENESS/CONSERVATION PROGRAM BUDGET			**$ 129,000**

* Uncertainty in the funding from the Metropolitan Water District may adversely impact the availablity of programs.

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2023-24 CAPITAL BUDGET

VALLECITOS WATER DISTRICT

Comprehensive Project List

Page Number	Project Number	Project Title	Funding Source	Previous Budget & Amendments	Estimated Amt Expended @ 6/30/23	Fiscal Year 2023-24 Carryforward	Fiscal Year 2023-24 New Request
Carryover Projects							
37	2021100002	Land Outfall Parallel Sewer Section A	210 & 220	$ 11,320,000	$ 10,000	$ 11,310,000	$ 40,000
38	2016100002	Chlorine Contact Tank Expansion	250	4,885,000	385,000	4,500,000	4,885,000
39	2020100002	Montiel Lift Station Replacement	210 & 220	7,215,000	1,300,000	5,915,000	1,485,000
40	2023100101	Twin Oaks Valley Road Sewer Improvement Phase 1	210 & 220	100,000	75,000	25,000	7,750,000
41	2020100003	Tres-Amigos Water Line Replacement Phase 1	110	6,570,000	390,000	6,180,000	(370,000)
42	2017100002	MRF Conversion to Sodium Hypochlorite	250	3,885,000	640,000	3,245,000	1,725,000
43	2020100005	Meadowlark Failsafe Rehabilitation (Buena Reach)	210	3,850,000	345,000	3,505,000	1,270,000
44	2017100224	City of San Marcos Creek District Phase 1	110 & 210	4,310,000	532,000	3,778,000	478,000
45	2021100003	16-Inch Emergency Bypass and 12-Inch Failsafe Pipeline Rehabilitation	210	3,305,000	1,460,000	1,845,000	(210,000)
46	2023100002	Meters Testing & Maintenance Building	110 & 210	1,280,000	100,000	1,180,000	1,200,000
47	2021100005	Coronado Hills Tank Interior and Exterior Refurbishment	110	540,000	35,000	505,000	1,395,000
48	2012100002	Richland Invert Replacement	210 & 220	1,590,000	80,000	1,510,000	-
49	2020100004	District-wide SCADA Upgrade Project	110 & 210	1,250,000	1,278,000	(28,000)	267,000
50	2021100008	Coggan Pump Station Improvements	110	1,260,000	-	1,260,000	-
51	2023100003	HVAC System for District Headquarters	110 & 210	1,100,000	25,000	1,075,000	-
52	2023100004	Pipeline Corrosion Protection Improvements	110 & 210	1,050,000	40,000	1,010,000	(47,000)
53	2020100010	Ductile Iron Pipe Condition Assessment	110	980,000	5,000	975,000	-
54	2022100008	MRF Stabilization and Maintenance Improvements	210	670,000	140,000	530,000	220,000
55	2020100007	Steel Pipeline Condition Assessment	110	855,000	-	855,000	-
56	2023100005	Land Outfall West Repair and Rehabilition	210	800,000	30,000	770,000	20,000
57	2023100007	San Marcos Blvd at Pacific Street Sewer Relocation	210	647,000	15,000	632,000	110,000
58	2021100006	MRF Direct Potable Reuse	210	650,000	10,000	640,000	-
59	2023100301	Asset Management Replacement Schedule	110 & 210	402,000	402,000	-	242,000
60	2022100005	Lake San Marcos Lift Station Improvements	210	300,000	45,000	255,000	265,000
61	2021100013	City of San Marcos Joint Projects Relocate/Adjust	110 & 210	265,000	153,000	112,000	222,000
62	2022100006	Energy Management Systems	110 & 210	360,000	192,000	168,000	92,000
63	2022100009	Maintenance Services Department - Offices	110 & 210	410,000	86,000	324,000	36,000
64	2022100055	Richland I Tank Exterior Refurbishment	110	405,000	20,000	385,000	25,000
65	2018100004	Las Posas Water Line Replacement	110	887,000	97,000	790,000	(485,000)
66	2016100007	Rock Springs Valve Replacement	110	362,000	51,000	311,000	-
67	2020100022	Redundancy for Admin. Wireless Radio Network	110 & 210	347,000	48,000	299,000	-
68	2021100007	Rancheros Drive Sewer Rehabilitation	210	300,000	10,000	290,000	15,000
69	2020100011	Palos Vista Pump Station - Motor Starters Upgrade	110	517,000	230,000	287,000	(242,000)
70	2022100004	Maximo Mobility	110 & 210	270,000	-	270,000	-
71	2022100010	Wulff Waterline Improvements	120	230,000	69,000	161,000	40,000
72	2020100012	DHS- Upgrades for Critical Infrastructure Hardware	110 & 210	239,000	1,000	238,000	-
73	2020100021	Update Restrooms to ADA Compliance	110 & 210	98,000	40,000	58,000	93,000
74	2023100014	AMI Pilot	110	150,000	-	150,000	-
75	2020100026	Upgrades to Surveillance Video Management System	110 & 210	150,000	12,000	138,000	-
76	2023100016	MRF: Circuit Breaker Program	210	130,000	-	130,000	-
77	2022100011	Maximo - GIS interface	110 & 210	120,000	-	120,000	-
78	2023100015	Heli-Hydrant	110	150,000	10,000	140,000	(50,000)
79	2023100020	MRF - Replacement of South Influent Pump	210	75,000	-	75,000	-
80	2023100102	Mountain Belle Reservoir Fence & Slope Restoration	110	65,000	10,000	55,000	5,000
81	2023100024	Primary Clarifier Sludge Pump Replacement	210	60,000	19,000	41,000	-
82	2023100027	Deer Springs Pump Station: Circuit Breaker Program	110	48,000	-	48,000	-
83	2023100026	Wulff Pump Station: Circuit Breaker Program	110	48,000	-	48,000	-
84	2022100031	OpenGOV Digital Transparency and Reporting	110 & 210	20,000	-	20,000	-
85	2023100036	Electronic Signature Initiative for District Docs	110 & 210	15,000	-	15,000	-
				$ 64,535,000	***$ 8,390,000***	***$ 56,145,000***	***$ 20,476,000***
New Projects							
86	2024100001	Encina Wastewater Authority Five Year Plan	210	-	-	-	29,993,000
87	2024100002	Montiel Forcemain and Gravity Sewer Improvements	210 & 220	-	-	-	2,800,000
88	2024100003	Water, Wastewater, and Recycled Water Master Plan	120 & 220	-	-	-	1,435,000
89	2024100004	Sewer Lining and Rehab 2024	210	-	-	-	850,000
90	2024100005	Technology Infrastructure Upgrades	110 & 210	-	-	-	840,000
91	2024100006	Replace Roofing on Admin and Operations Buildings	110 & 210	-	-	-	500,000
92	2024100007	SCADA Business Integration & Digital Transform	110 & 210	-	-	-	468,000
93	2024100008	Fleet Electrification Project	110 & 210	-	-	-	320,000
94	2024100009	Fire Services - Backflow Preventer Upgrades	110	-	-	-	300,000
95	2024100010	PC / Laptop Refresh Plan	110 & 210	-	-	-	300,000
96	2024100011	SCADA Instrumentation Control and Elect. Standards	110 & 210	-	-	-	260,000
97	2024100012	Barham Drive Sewer Improvements Reimbursement	220	-	-	-	245,000
98	2024100013	MRF - Tertiary Influent Basin Rehabilitation	250	-	-	-	225,000
99	2024100014	District-wide Valve Replacement Program	110	-	-	-	200,000
100	2024100015	Corte Lupe Waterline Replacement	110	-	-	-	160,000
101	2024100016	Building C: Repairs and Lighting Upgrades	110 & 210	-	-	-	160,000
102	2024100017	Building A: Repairs and Lighting Upgrades	110 & 210	-	-	-	160,000
103	2024100018	Managed Operating System Patching Services	110 & 210	-	-	-	160,000
104	2024100019	City of Carlsbad Joint Projects Relocate/Adjust	210	-	-	-	75,000
105	2024100020	MRF: Neuros Blowers Master Control Panel	210	-	-	-	75,000
106	2024100021	Palos Vista Tank - Chlorine Injection Replacement	110	-	-	-	75,000
107	2024100022	Safety Nets and Climbing System for Twin Oaks #2	110	-	-	-	70,000
108	2024100023	Trussell Flow Control Facility: Valve Upgrade	110	-	-	-	70,000
109	2024100024	Replacement of District Fuel Pumps	110 & 210	-	-	-	50,000
110	2024100025	Replace Gate Controllers at VWD Headquarters	110 & 210	-	-	-	45,000
111	2024100026	Questhaven Lift Station: Repairs and Paint	210	-	-	-	45,000
112	2024100027	Palisades Water Improvements Reimbursement	120	-	-	-	40,000
113	2024100028	MRF: Plant Influent Flow Meter Sump Pump	210	-	-	-	40,000
114	2024100029	MRF: Aeration Basin Sump Pump System	210	-	-	-	40,000
115	2024100030	Wulff Tank: Fence Installation	110	-	-	-	30,000
116	2024100031	Reroof Lake San Marcos Lift Station	210	-	-	-	19,000
117	TBA	Future Projects		-	-	-	20,745,000
				$ -	***$ -***	***$ -***	***$ 60,795,000***
				$ 64,535,000	***$ 8,390,000***	***$ 56,145,000***	***$ 81,271,000***
						$137,416,000	

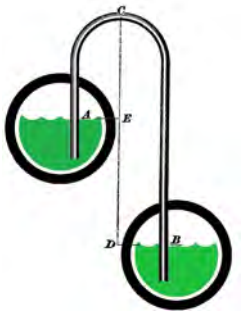
VALLECITOS WATER DISTRICT

Comprehensive Project List

Project Total	Spending by Fiscal Year						Page Number
	2023-24	2024-25	2025-26	2026-27	2027-28	2028 to 2033	
$ 11,360,000	$ 250,000	$ 600,000	$ 300,000	$ 8,700,000	$ 1,500,000	$ -	37
9,770,000	135,000	5,825,000	3,425,000	-	-	-	38
8,700,000	1,850,000	4,125,000	1,425,000	-	-	-	39
7,850,000	125,000	650,000	4,250,000	2,750,000	-	-	40
6,200,000	180,000	5,630,000	-	-	-	-	41
5,610,000	170,000	-	1,800,000	3,000,000	-	-	42
5,120,000	3,500,000	1,275,000	-	-	-	-	43
4,788,000	4,256,000	-	-	-	-	-	44
3,095,000	1,635,000	-	-	-	-	-	45
2,480,000	80,000	-	250,000	2,050,000	-	-	46
1,935,000	1,000,000	900,000	-	-	-	-	47
1,590,000	10,000	10,000	335,000	1,155,000	-	-	48
1,517,000	239,000	-	-	-	-	-	49
1,260,000	60,000	-	1,200,000	-	-	-	50
1,100,000	-	75,000	1,000,000	-	-	-	51
1,003,000	436,000	275,000	252,000	-	-	-	52
980,000	335,000	340,000	300,000	-	-	-	53
890,000	750,000	-	-	-	-	-	54
855,000	50,000	60,000	385,000	360,000	-	-	55
820,000	150,000	120,000	520,000	-	-	-	56
757,000	94,000	648,000	-	-	-	-	57
650,000	340,000	300,000	-	-	-	-	58
644,000	102,000	90,000	50,000	-	-	-	59
565,000	200,000	320,000	-	-	-	-	60
487,000	334,000	-	-	-	-	-	61
452,000	90,000	70,000	50,000	50,000	-	-	62
446,000	360,000	-	-	-	-	-	63
430,000	410,000	-	-	-	-	-	64
402,000	305,000	-	-	-	-	-	65
362,000	11,000	300,000	-	-	-	-	66
347,000	299,000	-	-	-	-	-	67
315,000	5,000	5,000	10,000	285,000	-	-	68
275,000	45,000	-	-	-	-	-	69
270,000	170,000	100,000	-	-	-	-	70
270,000	21,000	180,000	-	-	-	-	71
239,000	238,000	-	-	-	-	-	72
191,000	151,000	-	-	-	-	-	73
150,000	150,000	-	-	-	-	-	74
150,000	138,000	-	-	-	-	-	75
130,000	130,000	-	-	-	-	-	76
120,000	75,000	45,000	-	-	-	-	77
100,000	90,000	-	-	-	-	-	78
75,000	75,000	-	-	-	-	-	79
70,000	60,000	-	-	-	-	-	80
60,000	41,000	-	-	-	-	-	81
48,000	48,000	-	-	-	-	-	82
48,000	48,000	-	-	-	-	-	83
20,000	20,000	-	-	-	-	-	84
15,000	15,000	-	-	-	-	-	85
$ 85,011,000	***$ 19,276,000***	***$ 21,943,000***	***$ 15,552,000***	***$ 18,350,000***	***$ 1,500,000***	***$ -***	
29,993,000	5,343,000	6,421,000	5,886,000	6,072,000	6,271,000	-	86
2,800,000	2,800,000	-	-	-	-	-	87
1,435,000	35,000	682,000	718,000	-	-	-	88
850,000	30,000	60,000	760,000	-	-	-	89
840,000	160,000	160,000	130,000	130,000	130,000	130,000	90
500,000	500,000	-	-	-	-	-	91
468,000	57,000	175,000	109,000	127,000	-	-	92
320,000	15,000	155,000	100,000	50,000	-	-	93
300,000	300,000	-	-	-	-	-	94
300,000	75,000	75,000	75,000	75,000	-	-	95
260,000	170,000	90,000	-	-	-	-	96
245,000	245,000	-	-	-	-	-	97
225,000	25,000	200,000	-	-	-	-	98
200,000	200,000	-	-	-	-	-	99
160,000	35,000	25,000	100,000	-	-	-	100
160,000	160,000	-	-	-	-	-	101
160,000	160,000	-	-	-	-	-	102
160,000	40,000	40,000	40,000	40,000	-	-	103
75,000	75,000	-	-	-	-	-	104
75,000	75,000	-	-	-	-	-	105
75,000	75,000	-	-	-	-	-	106
70,000	70,000	-	-	-	-	-	107
70,000	70,000	-	-	-	-	-	108
50,000	50,000	-	-	-	-	-	109
45,000	45,000	-	-	-	-	-	110
45,000	45,000	-	-	-	-	-	111
40,000	40,000	-	-	-	-	-	112
40,000	40,000	-	-	-	-	-	113
40,000	40,000	-	-	-	-	-	114
30,000	30,000	-	-	-	-	-	115
19,000	19,000	-	-	-	-	-	116
20,745,000	-	462,000	4,153,000	5,105,000	5,000,000	6,025,000	117
$ 60,795,000	***$ 11,024,000***	***$ 8,545,000***	***$ 12,071,000***	***$ 11,599,000***	***$ 11,401,000***	***$ 6,155,000***	
$ 145,806,000	***$ 30,300,000***	***$ 30,488,000***	***$ 27,623,000***	***$ 29,949,000***	***$ 12,901,000***	***$ 6,155,000***	

Capital Improvement Program
Land Outfall Parallel Sewer Section A

Description: The existing 20 to 24-inch Siphon Section A, and 30-inch Gravity Section A of the Land Outfall are under capacity and will require a parallel 30-inch siphon pipeline and a new 42-inch gravity pipe to be installed.



Project Manager: Ryan Morgan **Department:** Engineering

Project: 2021100002

Work Order: 259335

Funding Source: 76% Fund 220 – Sewer Capacity
24% Fund 210 – Sewer Replacement

Comments: The Land Outfall comprises approximately 34,000 feet of sewer pipe (total) installed in 1985, connecting Lift Station No. 1 to the Encina Water Pollution Control Facility. The Siphon Section A comprises approximately 12,000 feet of 20 to 24-inch ductile iron pipe (DIP) and polyvinyl chloride (PVC) and operates as a pressurized inverted siphon. The Siphon Section A corridor begins just west of Acacia Drive and ends just east of El Camino Real. In 2006 a parallel 24-inch PVC siphon was installed between Acacia Drive and Melrose Avenue. The exisiting 24-inch DIP pipe was decommissioned. Currently Siphon Section A is overcapacity during peak wet weather flow conditions. A preliminary design report (PDR) and phase 1 design for a new 30-inch siphon pipeline, parallel to Siphon Section A, needs to be completed between Melrose Avenue and El Camino Real to provide additional capacity and to accommodate ultimate build out demands. The DIP portions of the existing siphon need to be rehabilitated with cured-in-place pipe liner. Two new diversion structures between the existing siphon and the new parallel siphon will be necessary at the downstream end for chemical injection, metering, and maintenance (El Camino Real end) and at the upstream end (near Acacia Drive). Additionally, this project will include a meter vault with pipeline interconnects west of Melrose Avenue, a new connection to the MRF solids forcemain, and a connection to the City of Carlsbad's Poinsettia lift station.

Approximately 1,625 feet of existing 30-inch vitrified clay pipe (VCP), referred to a Gravity Section A, was installed as part of the Land Outfall project, located immediately east of Siphon A. Gravity Section A is under capacity for build out demands and will need to be replaced with new 42-inch PVC.

Operations Impact: Reduce the risk of sewer spills. Increase capacity. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$10,000	$250,000					$260,000
Design			$600,000	$300,000			$900,000
Construction					$8,700,000	$1,500,000	$10,200,000
Total	$10,000	$250,000	$600,000	$300,000	$8,700,000	$1,500,000	**$11,360,000**

FY 2023/24 Budget Request - $40,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Jul 2021	Jun 2024	Jul 2024	Jun 2026	Sep 2026	Oct 2028	Nov 2028

Capital Improvement Program
Chlorine Contact Tank Expansion

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

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2016100002 **Funding Source:** 100% Fund 250 - Reclaimed

Work Order: 167177

Comments: The existing CCT were part of the original expansion of MRF in the 1980's. During the latest expansion of MRF which started in 2005, the CCTs were re-rated 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% Grant funding for the project budget total. Reimbursement for a portion of project costs will also be acquired from current recycled water customers (City of Carlsbad and Olivenhain Municipal Water District) through the Recycled Water Rates. Design and construction of the CCT expansion is proceeding with approval of these grant funds and reimbursement agreements.

Operations Impact: Normal maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$75,000						$75,000
Design	$310,000	$135,000					$445,000
Construction			$5,825,000	$3,425,000			$9,250,000
Total	$385,000	$135,000	$5,825,000	$3,425,000	$0	$0	**$9,770,000**

FY 2023/24 Budget Request - $4,885,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Apr 2016	Jun 2022	Jun 2022	May 2023	Jul 2024	Aug 2025	Sep 2025

Capital Improvement Program
Montiel Lift Station Replacement

Description: The existing Montiel Lift Station has surpassed the end of its design life and requires replacement. In addition, the lift station is undersized to handle peak wet weather build out flows for the area.

Project Manager: Ryan Morgan

Department: Engineering

Project: 2020100002

Work Order: 217904

Funding Source: 49% Fund 210 - Sewer Replacement
51% Fund 220 - Sewer Capacity

Comments: The Montiel Lift Station is a small facility just north of State Route-78 and east of Nordahl Road. This lift station was constructed in 1985 and was originally designed to serve as a temporary purpose. The lift station collects and conveys wastewater flows from a 200-acre area east of Nordahl Road near the District's eastern service area boundary. The lift station has surpassed the end of its design life and requires replacement. The District has prepared a planning document and determined that a gravity outfall solution, in partnership with the City of Escondido cannot be realized. This project is identified in the 2018 Master Plan as Project LS-1.

The existing lift station is not designed for ultimate build-out in the Montiel sewer basin and has surpassed its design life. The project will remove the existing lift station and replace it with a new wet well, pumps, piping, standby generator, site improvements, grading, and drainage.

Operations Impact: Routine monitoring and maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$375,000						$375,000
Design	$925,000						$925,000
Construction		$1,850,000	$4,125,000	$1,425,000			$7,400,000
Total	$1,300,000	$1,850,000	$4,125,000	$1,425,000	$0	$0	**$8,700,000**

FY 2023/24 Budget Request - $1,485,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019	Feb 2016	Jul 2021	Jun 2021	Jun 2023	Jan 2024	Aug 2025	Sep 2025

Capital Improvement Program
Twin Oaks Valley Road Sewer Improvement Phase 1

Description: Approximately 15,800 feet of existing 8 to 12-inch sewer pipe along Twin Oaks Valley Road is under capacity and needs to be upsized to 10 and 15-inch pipe.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2023100101 **Funding Source:** 34% Fund 210 - Sewer Replacement
66% Fund 220 Sewer Capacity

Comments: The existing Twin Oaks Valley Road sewer north of Mission Road is at or exceeds capacity in accordance with District standards. A Twin Oaks Valley Sub-Area Master Plan Study will be prepared to determine how much Capital Facility Fees would need to be increased to fund the capacity portion of these sewer improvements as a District capital improvement project. The approximately 15,800 foot long project will be designed and sewer pipe upsized along Twin Oaks Valley Road, from approximately 1,500 feet north of La Cienga Road to Richmar Avenue.

Operations Impact: Increased flow capacity of sewer line sections.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$75,000	$25,000					$100,000
Design		$100,000	$650,000				$750,000
Construction				$4,250,000	$2,750,000		$7,000,000
Total	$75,000	$125,000	$650,000	$4,250,000	$2,750,000	$0	**$7,850,000**

FY 2023/24 Budget Request - $7,750,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Dec 2023	Jul 2023	Apr 2025	Jul 2025	Nov 2026	Dec 2026

Capital Improvement Program
Tres-Amigos Water Line Replacement Phase 1

Description: Replace approximately 7,800 feet of the Tres-Amigos thin-wall steel water line. The aging 6-inch to 8-inch steel pipe will be replaced with new PVC pipe.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2020100003 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 226509

Comments: The Tres-Amigos waterline consists of approximately 19,000 feet of pipelines ranging from 6-inch to 12-inch diameter. The water pipelines located in the northern limits of the District boundary was installed in the 1950s and 1960s, extending from the North Twin Oaks Tank No. 2 on Pleasant Heights Drive to north of Carrio Drive. The original Tres Amigos Line Extension Project occurred in 1958 which installed 6-inch and 8-inch diameter tar wrapped 12 to 14-gauge steel pipelines. This material is considered steam pipeline and is not adequate for use in pressurized water distribution systems. The Project will design the replacement of existing 6-inch and 8-inch diameter steel water mains with 8-inch (minimum) C-900 PVC water pipeline.

Due to the frequency of pipeline ruptures, this project will replace approximately 7,800 feet of the Tres Amigos water pipelines beginning at the tee junction in Green Hills Way, traveling northbound in District easements and on Ormsby Way. The pipeline corridor veers east in an existing District easement from Ormsby Way and travels northbound in alignment with Fairview Drive and crosses Gopher Canyon Road, continuing northbound in Fairview Drive. North of the Carrio Drive and Fairview Drive intersection, the pipeline travels northeast in District easements through private properties to a dead-end at the District's northern boundary (end of Project). A key project objective includes the relocation of the existing pipelines out of private backyards and into more accessible areas.

Operations Impact: Reduced risk of water line breakage. Annual and routine pipeline maintenance is expected with the completion of this project.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$50,000						$50,000
Design	$340,000	$180,000					$520,000
Construction			$5,630,000				$5,630,000
Total	$390,000	$180,000	$5,630,000	$0	$0	$0	**$6,200,000**

FY 2023/24 Budget Request - ($370,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019	Jul 2019	Jun 2020	Jul 2020	Apr 2024	Jul 2024	Apr 2025	May 2025

Capital Improvement Program
MRF Conversion to Sodium Hypochlorite

Description: Replace the use of chlorine gas at the Meadowlark Water Reclamation Facility (MRF) with bulk storage of sodium hypochlorite (bleach) and perform a structural retrofit to meet the current State seismic standards for buildings.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2017100002 **Funding Source:** 100% Fund 250 - Reclaimed

Work Order: 213334

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 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 conversion to bulk storage of sodium hypochlorite removes the acute hazard of chlorine gas and replaces it with a bleach solution (12.5%) that removes the District's requirement to maintain several of the extensive safety programs for that site. Use of the bleach will not create an acute hazard in the event of a leak. The project will proceed with an agreement from the Recycled Water customers (City of Carlsbad and OMWD) to reimburse the District through Recycled Water rates.

During the Process Hazard Analysis of 2019, ventilation openings in the Chlorine Building were identified as having seismic deficiencies. These deficiencies need to be seismically retrofitted to the current building code.

The project includes proof of concept field testing during design phase including biological phosphorus profiling in the upstream processes at MRF which impacts future chemical dosing volumes and best management practices. The temporary injection pump skid and piping appurtenances will be provided as a temporary storage and feed system that will provide a redundant source of recycled water distribution until the future permanent system is accepted.

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 or maintain a HazMat team. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$35,000						$35,000
Design	$605,000	$170,000					$775,000
Construction				$1,800,000	$3,000,000		$4,800,000
Total	$640,000	$170,000	$0	$1,800,000	$3,000,000	$0	**$5,610,000**

FY 2023/24 Budget Request - $1,725,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2018	Jun 2021	Jul 2021	Jun 2024	Jan 2026	Jun 2027	Jun 2027

Capital Improvement Program
Meadowlark Failsafe Rehabilitation (Buena Reach)

Description: This project will install manholes to provide access to the pressured system for cured-in-place pipe liner rehabilitation, repair, and/or replacement.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2020100005 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 232898

Comments: The Meadowlark Failsafe Sewer Outfall is composed of approximately 9,900 feet of 16-inch ductile iron pipe (DIP) installed in 1980 from Aviara Parkway and Palomar Airport Road to Yarrow Road and Camino Vida Roble in Carlsbad. Recent repairs in the Buena Reach have determined that there is a significant need to improve the condition of this pipeline. This project will install manholes to provide access to the pressured system to allow for future Operations & Maintenance (O&M) access, inspections, and long term maintenance.

Buena Sanitation District is responsible for 50% of any repairs or improvements in the Buena Reach. After project completion, VWD expects to receive approximately $2,600,000 in project design and construction reimbursements.

Operations Impact: Improve maintenance access. Reduce risk of sewer spills. Annual and routine pipeline maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$25,000						$25,000
Design	$320,000						$320,000
Construction		$3,500,000	$1,275,000				$4,775,000
Total	$345,000	$3,500,000	$1,275,000	$0	$0	$0	**$5,120,000**

FY 2023/24 Budget Request - $1,270,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019	Jan 2020	Nov 2020	Nov 2020	Jun 2023	Oct 2023	Oct 2024	Nov 2024

Capital Improvement Program
City of San Marcos Creek District Phase 1

Description: This amount is set-aside to cover services rendered in conjunction with the City of San Marcos' Creek District Phase 1 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: Elizabeth Lopez **Department:** Engineering

Project: 2017100224 **Funding Source:** See Below

Work Order: 173906

Comments:

Project:	Amount:	Source:
Discovery St Widening*	$969,775	Water/Sewer 85% / 15%
Bent Ave Bridge*	$1,518,817	Water/Sewer 25% / 75%
Via Vera Cruz Bridge*	$2,299,408	Water/Sewer 70% / 30%
Total	$4,788,000	

*These projects are in conjunction with the City's Capital Improvement Plan. Totals do not include all potential construction change orders.

Operations Impact: Normal maintenance for infrastructure.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$69,000						$69,000
Design							
Construction	$463,000	$4,256,000					$4,719,000
Total	$532,000	$4,256,000	$0	$0	$0	$0	**$4,788,000**

FY 2023/24 Budget Request - $478,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Aug 2016	Feb 2020			Mar 2020	May 2024	Jul 2024

Capital Improvement Program
16-Inch Emergency Bypass & 12-Inch Failsafe Pipeline

Description: Rehabilitate approximately 4,550 feet of existing 16-inch reinforced plastic mortar sewer pipeline and 3,500 feet of existing 12-inch ductile iron pipeline with a cured-in-place pipe (CIPP) liner and replace necessary isolation valves and appurtenances. Provide new permanent access locations at incremental lengths along both alignments.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2021100003 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 232899

Comments: The 16-inch Emergency Bypass pipeline was installed in 1969 and connects to the District's 24-inch Land Outfall pipeline in the City of Carlsbad. The pipeline extends from Melrose Drive near Poinsettia Lane and follows a natural canyon east to Rancho Santa Fe Road near Via Cancion. The pipeline is primarily composed of reinforced plastic mortar (RPM) pipe, commonly referred to as "Techite", with some sections of ductile iron pipe (DIP). The pipeline, controlled by a series of valves, serves as an emergency bypass of sewer flows to and from the Meadowlark Water Reclamation Facility (MRF) and the Land Outfall pipeline to the Encina Water Pollution Control Facility (EWPCF) in Carlsbad. Due to age, material, and a corrosive environment, the pipeline has suffered breaks in recent years and several of the control valves are no longer functional.

This project will also incorporate necessary rehabilitation to the District's Failsafe 12-inch DIP Outfall located approximately 5-feet offset of the 16-inch Emergency Bypass pipeline. Both utilities are considered at-risk critical infrastructure assets to the District. Combining the work under this project will result in an overall savings in excess of $500,000 when compared to executing the two pipeline rehabilitation projects under individual capital improvement projects.

Operations Impact: Restore operation to broken valves and increase longevity of the Emergency Bypass Sewer and the Failsafe Outfall pipelines.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$90,000						$90,000
Design	$370,000						$370,000
Construction	$1,000,000	$1,635,000					$2,635,000
Total	$1,460,000	$1,635,000	$0	$0	$0	$0	**$3,095,000**

FY 2023/24 Budget Request - ($210,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2020	Jul 2020	Jan 2021	Feb 2021	Jun 2022	Dec 2022	Sep 2023	Oct 2023

Capital Improvement Program
Meters Testing & Maintenance Building

Description: Approximate 40' x 40' storage/shop building for four departments in Operations and Maintenance.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2023100002

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The Operations and Maintenance division is in need of additional storage and shop space for four departments. Currently, two shipping containers are being used for storage by the Maintenance Services and Construction departments. This building will be used by the following departments: Meters, Maintenance Services, Mechanical/Electrical and Construction. The Meter Services department will have a bay to store tools, parts, and their meter reading vehicle. A meter test bench will also be constructed in the shop to meet with current and pending state regulations. The Landscapers in the Maintenance Services department will store their Gator, sprayers, tools, power equipment, and fuel. The Electrical/Instrumentation Technicians in the Mechanical/Electrical department are expanding their breaker maintenance program and will use building to store materials and use as a shop. The Construction department will use a bay to store equipment that should not be outside in the yard.

Operations Impact: Improved storage and shop areas. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design	$100,000	$80,000					$180,000
Construction				$250,000	$2,050,000		$2,300,000
Total	$100,000	$80,000	$0	$250,000	$2,050,000	$0	**$2,480,000**

FY 2023/24 Budget Request - $1,200,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022							Jun 2027

Capital Improvement Program
Coronado Hills Tank Interior and Exterior Refurbishment

Description: Coronado Hills Tank requires interior and exterior refurbishment.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2021100005 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 260458

Comments: The existing interior and exterior coating of the 2.6 million gallon (MG) tank has deteriorated and requires full refurbishment. As part of the refurbishment, some equipment upgrades may be necessary.

Operations Impact: Prevent further deterioration of the interior and exterior coating and corrosion of the metal tank shell. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000						$5,000
Design	$30,000						$30,000
Construction		$1,000,000	$900,000				$1,900,000
Total	$35,000	$1,000,000	$900,000	$0	$0	$0	**$1,935,000**

FY 2023/24 Budget Request - $1,395,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2020	Oct 2022	Feb 2023	Mar 2023	Jun 2023	Nov 2023	Jun 2024	Jul 2024

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 or 18-inch diameter siphon to be located at the existing pipelines' location.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2012100002

Work Order: 123749

Funding Source: 55% Fund 220 – Sewer Capacity
45% Fund 210 – Sewer Replacement

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, surcharging occurs in the 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 will evaluate whether a new, larger capacity siphon underneath the San Marcos Creek or a gravity line in the City right-of-way is the most cost effective option. If the creek crossing is selected, staff anticipates environmental wetland permitting will be required. The 2018 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 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$80,000						$80,000
Design		$10,000	$10,000	$335,000			$355,000
Construction					$1,155,000		$1,155,000
Total	$80,000	$10,000	$10,000	$335,000	$1,155,000	$0	**$1,590,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2011	Apr 2012	Jun 2024	Jun 2024	Apr 2026	Jul 2026	Apr 2027	May 2027

Capital Improvement Program
District-wide SCADA Upgrade Project

Description: Upgrade SCADA Network, Software and Hardware Components.

Project Manager: Matias Labarrere

Department: Operations and Maintenance

Project: 2020100004

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments:

The District's existing Supervisory Control and Data Acquisition (SCADA) system is outdated and obsolete. Replacement parts are difficult to obtain, extremely expensive and technical support is no longer available. The existing hardware is 1970's technology and no longer compatible with current software operating systems. The new hardware will include SCADA radios and PLC's (Programmable Logic Controllers) that are Ethernet capable, allowing for faster data transfer rates. This new hardware and software will also allow remote access, which allows staff to program and troubleshoot the SCADA network from one central location. This will decrease the downtime of the network and reduce travel time to remote sites, saving staff time and improving efficiency. Security of the SCADA network will be much improved with this upgrade and Operations will be working with IT staff to ensure the District's cyber-security needs are met.

Operations Impact: Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction	$1,278,000	$239,000					$1,517,000
Total	$1,278,000	$239,000	$0	$0	$0	$0	**$1,517,000**

FY 2023/24 Budget Request - $267,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019							Jun 2025

Capital Improvement Program
Coggan Pump Station Improvements

Description: Install new permanent generator with automatic transfer switch. Upgrade motor starters and controls.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2021100008 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Coggan Pump Station has no permanent generator for emergency power. To insure reliability to this facility, an Air Pollution Control District (APCD) / California Air Resources Board (CARB) compliant generator will need to be installed at the station. Improvements will also include an automatic transfer switch, enclosure, concrete pad, and conduit. This project will also replace and upgrade the stations motor starters and controls to current industry standards.

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 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design		$60,000					$60,000
Construction				$1,200,000			$1,200,000
Total	$0	$60,000	$0	$1,200,000	$0	$0	**$1,260,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2020	Jul 2021	Jun 2022	Nov 2023	Jun 2025	Sep 2025	Jun 2026	Jul 2026

Capital Improvement Program
HVAC System for District Headquarters

Description: Replacement of the HVAC system for the District's Administration and Operations buildings.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2023100003

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The District's HVAC system is over 25 years old and has required several expensive repairs in the last few years. The system is inefficient and past its service life. The HVAC system serves the District's Administration and Operations buildings and will be completely replaced. The replacement will include the hardware, controls and communications software. The existing system does not allow staff to access the controls and troubleshoot any problems. This also prevents staff from making any adjustments to the system. Updating the system will allow staff better temperature control and improve overall energy efficiency.

Operations Impact: Improved energy efficiency and reliability.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$25,000						$25,000
Design			$75,000				$75,000
Construction				$1,000,000			$1,000,000
Total	$25,000	$0	$75,000	$1,000,000	$0	$0	**$1,100,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022							Jun 2026

Capital Improvement Program
Pipeline Corrosion Protection Improvements

Description: Pipeline corrosion protection systems throughout the District require remediate work to repair and replacement infrastructure necessary for the continued protection of steel and ductile iron pipes.

Project Manager: Eric Bennett

Department: Engineering

Project: 2023100004

Work Order: 272144

Funding Source: 2% Fund 210 - Sewer Replacement
98% Fund 110 Water Replacement

Comments: The District's corrosion protection system protects steel and ductile iron pipe. Over time repairs and replacements are needed to anode beds, test stations, and appurtenances to continue the protective function of these systems. This project implements the recommendations of the 2020 pipeline corrosion protection assessment report for remediate work on these systems. This project will also conduct another corrosion protection assesment in 2024 and subsequent remediate work.

Operations Impact: Continued corrosion protection on steel and ductile iron pipes.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000	$36,000		$40,000			$81,000
Design	$35,000		$55,000				$90,000
Construction		$400,000	$220,000	$212,000			$832,000
Total	$40,000	$436,000	$275,000	$252,000	$0	$0	**$1,003,000**

FY 2023/24 Budget Request - ($47,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022	Jul 2022	Oct 2022	Nov 2022	Jun 2023	Jul 2023	Dec 2025	Jun 2025

Capital Improvement Program
Ductile Iron Pipe Condition Assessment

Description: Leverage the District's Asset Management Program to perform condition assessment on targeted areas of the ductile iron pipe system experiencing breaks in recent years. Results will be evaluated to minimize future replacement projects and reduce chances of emergency repairs.

Project Manager: Eric Bennett **Department:** Engineering

Project: 2020100010 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 241676

Comments: The District will plan and implement a phased, multi-year condition assessment program. This program will use pipeline condition assessment technology in conjunction with the District's Asset Management Program, to target specific areas in the ductile iron pipe (DIP) water line system for evaluation. The program will determine whether pipelines are in need of repair, rehabilitation, or full replacement. Coordination with Operations staff will minimize disruption to customers and provide invaluable insight to developing implementation plans. Implementation plans will establish where pipe tools will be inserted into the water line to measure pipeline wall thickness. Results will be evaluated to maximize the beneficial use of the District's existing infrastructure.

The focus of FY 23/24 will be the highest risk areas as identified in previous assesment phases.

Operations Impact: Reduce risk of water line breakage by identifying potential repairs. Extend the useful life of the existing water lines, reduce operational costs of annual and routine pipeline maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000						$5,000
Design		$335,000	$340,000	$300,000			$975,000
Construction							
Total	$5,000	$335,000	$340,000	$300,000	$0	$0	**$980,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019			Jul 2019	Jun 2026	Jan 2020	Jun 2026	Jun 2026

Capital Improvement Program
MRF Stabilization and Maintenance Improvements

Description: Design and installation of new slope stabilization, access pathways, and landscaping at the Meadowlark Water Reclamation Facility

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2022100008 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 251327

Comments: The Meadowlark Water Reclamation Facility (MRF) needs improvements to address the high maintenance erosion on steeper slopes, lack of access to facilities in steep or vegetated areas, and deficiencies in the irrigation system. The project will address slope stabilization with a mix of landscape, erosion control, and structural features.

Improvements will help maintain regulatory requirements for storm water runoff. Additionally, access will be enhanced with new hardscape to complement slope stabilization and landscape improvements. Aesthetically inconsistent landscape themes will be corrected and repairs and upgrades to the irrigation system will be completed. The existing landscaping at MRF has not responded well to reclaimed water and will shift focus to drought tolerant plants, improving the aesthetics for public tours throughout the year and will reflect the District's message to the public of the importance of low water usage landscaping.

Operations Impact: Reduced maintenance and water usage.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design	$140,000						$140,000
Construction		$750,000					$750,000
Total	$140,000	$750,000	$0	$0	$0	$0	**$890,000**

FY 2023/24 Budget Request - $220,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Nov 2021	Mar 2022	Apr 2022	Mar 2023	Jul 2023	Feb 2024	Apr 2024

Capital Improvement Program
Steel Pipeline Condition Assessment

Description: Leverage the District's Asset Management Program to perform condition assessments on targeted areas of the District's highest priority steel water lines. Results will be evaluated for future replacement projects and reduce chances of emergency repairs.

Project Manager: Eric Bennett **Department:** Engineering

Project: 2020100007 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 213264

Comments: The District will plan and implement a phased, multi-year condition assessment program. This program will use pipeline condition assessment technology in conjunction with the District's Asset Management Program, to target specific areas in the District's steel (CML&C) water line system for evaluation. The program will determine whether pipelines are in need of repair, rehabilitation, or full replacement. Coordination with Operations staff will minimize disruption to customers and provide invaluable insight to developing work plans. Work plans will establish where pipe tools will be inserted into the water line to measure pipeline wall thickness. Results will be evaluated to maximize the beneficial use of the District's existing infrastructure.

The focus for FY 23/24 will be a 725 foot section of 18-inch CML&C pipe located in an easement near Rees Road and Rock Springs Road.

Operations Impact: Reduce risk of water line breakage by identifying potential repairs. Extend the useful life of the existing water lines. Annual and routine pipeline maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design		$50,000	$60,000	$385,000	$360,000		$855,000
Construction							
Total	$0	$50,000	$60,000	$385,000	$360,000	$0	**$855,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019		Jun 2024	Jan 2020	Jun 2027	Jan 2026	Jun 2027	Jun 2027

Capital Improvement Program
Land Outfall West Repair and Rehabilition

Description: The western segment of the sewer Land Outfall is in need of cleaning, rehabilitation, and repairs based on a condition assessment performed in 2021.

Project Manager: Eric Bennett **Department:** Engineering

Project: 2023100005 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The existing sewer Land Outfall pipeline was installed in 1986 and connects the District's Lift Station No.1 to the Encina Water Pollution Control Facility (EWPCF). The 34,000 foot long pipeline has both gravity and pressurized segments. In 2021 the District performed a thorough condition assessment with recommended actions for cleaning and rehabilitation/repairs. This project will evaluate these prior recommendations in the context of future up-sizing needs and clean, rehabilitate, and repair necessary sections of approximately 17,700 feet of sewer pipeline ranging in size from 21-inch to 54-inch.

As joint partners in the Land Outfall, this project will require coordination with the City of Carlsbad and the Buena Sanitation District (Vista). This project is expected to receive reimbursements.

Operations Impact: Reduce the risk of sewer spills. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$30,000						$30,000
Design		$150,000	$120,000				$270,000
Construction				$520,000			$520,000
Total	$30,000	$150,000	$120,000	$520,000	$0	$0	**$820,000**

FY 2023/24 Budget Request - $20,000

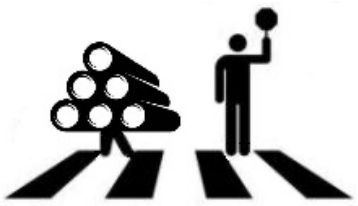
Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022	Jul 2022	Jun 2023	Dec 2023	Mar 2025	Apr 2025	Jun 2026	Jun 2026

Capital Improvement Program

San Marcos Blvd at Pacific Street Sewer Relocation

Description: This project will relocate approximately 800 feet of existing 8-inch vitrified clay pipe (VCP) sewer main with new 8-inch polyvinyl chloride (PVC) sewer.



Project Manager: Elizabeth Lopez **Department:** Engineering

Project: 2023100007 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 269985

Comments: The alignment of an existing 8-inch vitrified clay pipe (VCP) sewer main located south of San Marcos Boulevard at South Pacific Street crosses a large drainage channel. The existing sewer pipe has limited cover through the drainage channel and is in conflict with the City of San Marcos' Creek District Phase 1 storm drain improvements. The sewer will be relocated outside of the drainage channel, approximately 150 feet east of the existing location. This will eliminate the conflict with the City's storm drain improvements and improve access for maintenance of the sewer main. The City will reimburse the District 50% of the relocation construction costs.

Operations Impact: Normal maintenance for infrastructure and improved access.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$15,000	$5,000					$20,000
Design		$89,000					$89,000
Construction			$648,000				$648,000
Total	$15,000	$94,000	$648,000	$0	$0	$0	**$757,000**

FY 2023/24 Budget Request - $110,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022	Jan 2023	Aug 2023	Sep 2023	Jun 2024	Jul 2024	Oct 2025	Jun 2025

Capital Improvement Program
MRF Direct Potable Reuse

Description: VWD would like to explore the feasibility of repurposing or expanding Meadowlark Water Reclamation Facility (MRF) plant capacity and providing potable reuse.

Project Manager: Elizabeth Lopez **Department:** Engineering

Project: 2021100006 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 25910

Comments: The Meadowlark Water Reclamation Facility (MRF) currently provides approximately 4 MGD of recycled water to the Olivenhain Municipal Water District and the City of Carlsbad. VWD would like to explore the feasibility of repurposing some of this capacity, or expanding MRF, to create potable water for distribution to VWD's water customers. The evaluation is the first step in determining if this concept is technically and financially feasible.

Operations Impact: Potential to provide alternative water supply source

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$10,000	$340,000	$300,000				$650,000
Design							
Construction							
Total	$10,000	$340,000	$300,000	$0	$0	$0	**$650,000**

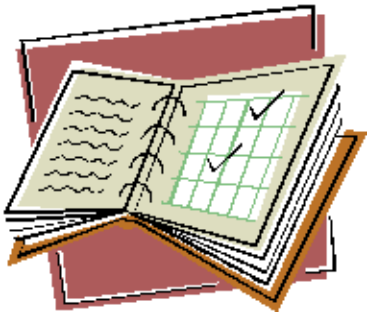
FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2020	Apr 2021	Jun 2025					Jun 2025

Capital Improvement Program
Asset Management Replacement Schedule

Description: Utilize the Asset Management Plan, the computerized maintenance management system (CMMS), Geographical Information System (GIS), soil analysis and developed condition assesment program to create a prioritized Asset/Infrastructure replacement schedule for District Facilities.



Project Manager: Eric Bennett **Department:** Engineering

Project: 2023100301 **Funding Source:** 51% Fund 110 – Water Replacement
49% 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. The District has already utilizing a computerized maintenance management system (CMMS) known as Maximo to implement and track preventative, corrective, and emergency maintenance/repairs on all assets/ infrastructure. This project will take the CMMS, Geographical Information System (GIS), and Asset Management Plan to provide a prioritized, risk-based replacement schedule with cost estimates over the expected life of all assets/infrastructure. This, plus a Business Risk Exposure analysis, soil analysis and development of a district wide condition assessment program will help the the Asset Management Plan identify future renewal and replacement projects.

Work Order: 267501, 268691, 270949

Operations Impact: Asset Management will help to prevent costly line breaks, prioritize resource allocation, improve efficiency and reduce overall asset lifecycle costs.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$5,000					$5,000
Design	$402,000	$97,000	$90,000	$50,000			$639,000
Construction							
Total	$402,000	$102,000	$90,000	$50,000	$0	$0	**$644,000**

FY 2023/24 Budget Request - $242,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2017	Jun 2024	Jan 2019	Jun 2026	Jul 2021	Jun 2023	Jun 2024

Capital Improvement Program
Lake San Marcos Lift Station Improvements

Description: Determine if existing generator is sufficient for station requirements and replace if needed.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2022100005 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The existing generator may not be large enough to power the entire facility with all pumps running. Having sufficient available backup power during a major storm event is critical as this is usually when SDG&E power is unstable or becomes unavailable.

A hydraulic study will be performed to determine if the pumps in the station can be modified to meet required flows or if the generator needs to be replaced.

Operations Impact: Improved pumping capacity and reliability. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$25,000						$25,000
Design	$20,000	$200,000					$220,000
Construction			$320,000				$320,000
Total	$45,000	$200,000	$320,000	$0	$0	$0	**$565,000**

FY 2023/24 Budget Request - $265,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Mar 2022	Apr 2023	Jun 2023	Apr 2024	Aug 2024	Feb 2025	Mar 2025

Capital Improvement Program
City of San Marcos Joint Projects Relocate/Adjust

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: Elizabeth Lopez **Department:** Engineering

Project: 2021100013 **Funding Source:** See Below

Work Order: 207141, 250092

Comments:

Miscellaneous relocations/adjustments resulting from City of San Marcos joint projects.
These projects are in conjunction with the City's Capital Improvement Plan. Currently two projects are proposed:

Project:	Amount:	Source:
San Marcos Blvd. & Discovery St.*	$214,000	100% Fund 110 - Water Replacement
Rancho Coronado Park Improvements**	$63,000	100% Fund 110 - Water Replacement
Annual Street Maintenance*	$210,000	51% Fund 110 - Water, 19% Fund 110 - Sewer
Total	$487,000	

* Totals do not include potential construction change orders.
** Per the Cost Sharing Agreement, construction of District facilities will be paid for by the City.

Operations Impact: Normal maintenance for infrastructure.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design	$34,000	$8,000					$42,000
Construction	$119,000	$326,000					$445,000
Total	$153,000	$334,000	$0	$0	$0	$0	**$487,000**

FY 2023/24 Budget Request - $222,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2020							Jun 2024

Capital Improvement Program
Energy Management Systems

Description: The Energy Management System is an on-going project approach to energy management for the District.

Project Manager: Eric Bennett **Department:** Engineering

Project: 2022100006 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The District entered into a power purchase agreement in November 2019 to develop new solar sites which will ultimately reduce future energy costs at the following two locations:
1. Net Energy Metering at Lift Station No. 1
2. RES-BCT Project at Twin Oaks Reservoirs 1 & 2 Site

Additional SGIP grant funding opportunities through Tesla for multiple battery sites throughout the District are in various stages of design and construction. The combination of District Wide Solar Power Purchase Agreement with the future energy storage capacity bandwidth at the District required a comprehensive Energy Management Study. The Energy Management Study outlined recommendations to further investigate and manage opportunities to reduce peak-use power consumption at various sites through the integration of available renewable resource assets.

Work Order: 247462, 248402, 268726

Operations Impact: Determining optimal usage of District renewable energy assets to achieve long-term savings in District's monthly payments to electrical utility.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$10,000						$10,000
Design	$182,000	$90,000	$70,000	$50,000	$50,000		$442,000
Construction							
Total	$192,000	$90,000	$70,000	$50,000	$50,000	$0	**$452,000**

FY 2023/24 Budget Request - $92,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Jul 2021	Oct 2021	Nov 2021	Jun 2026	Jul 2022	Jun 2026	Jun 2026

Capital Improvement Program
Maintenance Services Department - Offices

Description: Create new supervisor and crew offices in the C Building.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2022100009

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The recently created Maintenance Services department in the Operations & Maintenance division does not have an office space. This project will be to create office space for the supervisor and department staff in the C Building using an underutilized shop area.

Operations Impact: Improved work environment for the Maintenance Services department.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000						$5,000
Design	$81,000						$81,000
Construction		$360,000					$360,000
Total	$86,000	$360,000	$0	$0	$0	$0	**$446,000**

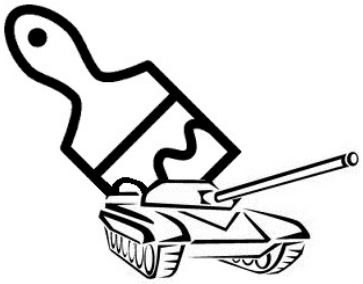
FY 2023/24 Budget Request - $36,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Nov 2021	Jun 2023	Jan 2022	Jun 2023	Jul 2023	Jun 2024	Jun 2024

Capital Improvement Program
Richland I Tank Exterior Refurbishment

Description: Richland I Tank requires exterior refurbishment.



Project Manager: Ryan Morgan **Department:** Engineering

Project: 2022100055 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 260459

Comments: The existing exterior coating of the 1.3 million gallon (MG) tank has deteriorated and requires full refurbishment. As part of the refurbishment, some equipment upgrades may be necessary.

Operations Impact: Prevent further deterioration of the exterior coating and corrosion of the metal tank shell. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000						$5,000
Design	$15,000						$15,000
Construction		$410,000					$410,000
Total	$20,000	$410,000	$0	$0	$0	$0	**$430,000**

FY 2023/24 Budget Request - $25,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Jul 2021	Jun 2022	Jul 2022	Jun 2023	Jul 2023	Dec 2023	Jan 2024

Capital Improvement Program
Las Posas Water Line Replacement

Description: Rehabilitate an existing 10-inch water line under-crossing an existing double reinforced box culvert on Las Posas Road.

Project Manager: Ryan Morgan **Department:** Engineering

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

Work Order: 241017

Comments: A 10-inch ductile iron (DIP) water main underneath a double reinforced box culvert (RBC) on Las Posas Road, between Linda Vista Drive and 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 rehabilitation will involve installing a structural liner inside the host water main using trenchless technology and reconnecting to the existing asbestos-cement pipe (ACP) located on either side of the double RBC.

Operations Impact: Prevent future breaks. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$7,000						$7,000
Design	$90,000	$45,000					$135,000
Construction		$260,000					$260,000
Total	$97,000	$305,000	$0	$0	$0	$0	**$402,000**

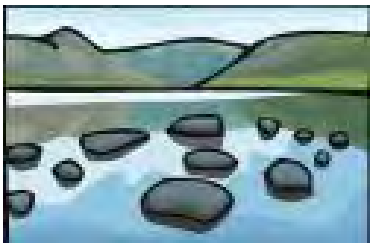
FY 2023/24 Budget Request - ($485,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jun 2018	Apr 2021	May 2021	Jun 2022	Dec 2022	Jun 2023	Jun 2023

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: Ryan Morgan **Department:** Engineering

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

Work Order: 258305

Comments: The Rock Springs Road and Bennett Avenue intersection has a cluster of three 10-inch, two 12-inch and one 14-inch gate valve that are not working properly and have caused the nearby pipelines to fail in the past. By replacing the non-functioning valves and affected pipeline this project will allow proper isolation and control of the water system and reduce the number of customers affected during future pipeline failures or shutdowns.

Operations Impact: Replacement of non-operational valves. Future operations and maintenance repair costs will be minimized at this location.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$6,000						$6,000
Design	$45,000						$45,000
Construction		$11,000	$300,000				$311,000
Total	$51,000	$11,000	$300,000	$0	$0	$0	**$362,000**

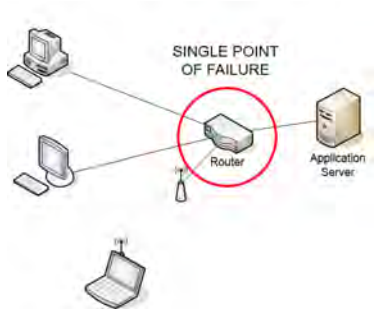
FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Jun 2018	Aug 2022	Nov 2022	Dec 2023	May 2024	Dec 2024	Jan 2025

Capital Improvement Program
Redundancy for Admin. Wireless Radio Network

Description: The District provides network connectivity between facilities via wireless radio infrastructure. Additional redundancy of radio network is necessary in order to provide continuity of data communications between sites in the event of a radio failure.



Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2020100022 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Upgrades to District Wireless Radio network. Additional radio stations are needed to support redundancy of data communications between the following district locations: Admin/Operations Buildings, Meadowlark Reclamation Facility, Twin Oaks Reservoir. Current Administrative Wireless radio architecture has a single point of failure - one fault or malfunction will cause the entire communications system to stop operating in the event of a single radio outage.

Operations Impact: Additional redundancy must be added to the Administrative radio network in order to provide continuity of data communications in the event of radio failures.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$64,000					$64,000
Design		$58,000					$58,000
Construction	$48,000	$177,000					$225,000
Total	$48,000	$299,000	$0	$0	$0	$0	**$347,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019							Jun 2024

Capital Improvement Program
Rancheros Drive Sewer Rehabilitation

Description: Rehabilitate approximately 700 feet of corroded sewer pipe with a cured-in-place liner, replace approximately 70 feet with vitrified clay pipe (PVC) pipe, and construct a new manhole to allow for servicing of the line.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2021100007 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 248644

Comments: The Rancheros Drive Sewer Rehabilitation includes approximately 700 feet of deteriorated ductile iron pipe (DIP) and vitrified clay pipe (VCP). The pipeline is in need of rehabilitation and approximately 70 feet of pipeline requires replacement due to miscellaneous structural and operational defects. This pipeline was originally installed in 1972 and with the current corrosion and operational defects, District staff is no longer able to safely clean and maintain the sewer line.

Operations Impact: Improve maintenance. Prevent sewer spills.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$10,000						$10,000
Design		$5,000	$5,000	$10,000			$20,000
Construction					$285,000		$285,000
Total	$10,000	$5,000	$5,000	$10,000	$285,000	$0	**$315,000**

FY 2023/24 Budget Request - $15,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021	Sep 2021	Jun 2023	Jan 2024	Jun 2026	Sep 2026	Dec 2026	Jan 2027

Capital Improvement Program
Palos Vista Pump Station - Motor Starters Upgrade

Description: Upgrade four auto-transformer motor starters to solid state soft starters.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2020100011 **Funding Source:** 100% Fund 110 – Water Replacement

Comments:

Replace four auto-transformer motor starters. Replacement is required due to wear from a long service life of over 25 years and a lack of support for replacement parts. New solid state soft starters will improve reliability and operating efficiency of electric motors.

Operations Impact: Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$5,000						$5,000
Design	$25,000						$25,000
Construction	$200,000	$45,000					$245,000
Total	$230,000	$45,000	$0	$0	$0	$0	**$275,000**

FY 2023/24 Budget Request - ($242,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019					Apr 2022	Jul 2023	Aug 2023

Capital Improvement Program
Maximo Mobility

Description: Develop a mobile enhancement to the CMMS Maximo Asset Management system.

Project Manager: Matias Labarrere

Department: Information Technology

Project: 2022100004

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The District has implemented a computerized maintenance management system (CMMS) in IBM Maximo to track asset specifications, installation information, purchasing details and the work performed to maintain those assets. The standard Maximo system is designed to be used on a desktop computer in the office. The District desires to use the Maximo system in the field by staff to record maintenance activities as it occurs. An enhancement to the Maximo software will create a user interface suitable for use by field staff using tablet computers or smart phones. Many solutions exist to mobilize the Maximo system, building on top of the core system, which provide for simple-to-use data entry forms, allow for non-connected field use and also present the assets and work orders on a map, facilitating location identification for field use. This enhancement will bring about labor time savings, more accurate and timely data capture, and improve information access for staff as they are working in the field. This project will develop the requirements, business processes, key performance metrics, system design, implementation and user training.

Operations Impact: Enhance the usage of the CMMS by field crews, optimizing labor time, improving data capture, and providing information to field crews.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$70,000					$70,000
Design		$100,000					$100,000
Construction			$100,000				$100,000
Total	$0	$170,000	$100,000	$0	$0	$0	**$270,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021							Jun 2025

Capital Improvement Program
Wulff Waterline Improvements

Description: This project will install a new 8-inch pressure regulating valve to allow the water level in the 350,000 gallon Wulff Tank to be regulated from the High Point hydro-pneumatic pump station pressure zone to provide redundancy to the existing Wulff pressure zone.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2022100010 **Funding Source:** 100% Fund 120 – Water Capacity

Work Order: 244896

Comments: After the High Point residential development is completed to the south, an offsite waterline and pressure regulating valve will be built to provide an additional source of water from the High Point/Palos Vista area. This provides additional redundancy to the VWD water system in this area.

The project will include partial reimbursement to the High Point developer for installation of 1,751 feet of 12-inch PVC from the existing 8-inch ACP water main in Rancho Luiseno Road (within the Wulff pressure zone) to the proposed 12-inch PVC water main in Woodland Heights Glen (within the High Point pressure zone) after completion of the High Point Pump Station.

Operations Impact: The new pressure regulating valve will regulate the water elevation in the Wulff Tank when in operation which provides a redundant water supply to the Wulff pressure zone.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$30,000						$30,000
Design	$39,000	$1,000					$40,000
Construction		$20,000	$180,000				$200,000
Total	$69,000	$21,000	$180,000	$0	$0	$0	**$270,000**

FY 2023/24 Budget Request - $40,000

Estimated Project Timeline

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

Capital Improvement Program
DHS- Upgrades for Critical Infrastructure Hardware

Description: The Department of Homeland Security (DHS) performed an audit of the District Industrial Control System (ICS) Information Technology Network on 11/27-28/2018. Audit As a result of the audit, several recommendations were provided to enhance system architecture on the Supervisory Control and Data Acquisition (SCADA) network. Initiatives contained within this CIP aim to strengthen the cybersecurity posture of the District's industrial control systems (ICS).

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2020100012 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: As a core part of its mission to reduce risk to the Nation's critical infrastructure (CI), Department of Homeland Security (DHS) National Cyber Assessments and Technical Services (NCATS) subject matter experts provide cybersecurity assessments to CI asset owners and operators to strengthen the cybersecurity posture of their industrial control systems (ICS). NCATS on behalf of the National Cybersecurity and Communications Integration Center (NCCIC) provides voluntary assessments based on standards, guidelines, and best practices. The assessment methodology provides a structured framework that asset owners and operators can leverage to evaluate and validate the cybersecurity of their ICS networks. The information gained from these reviews provided the District with additional understanding and context necessary to build effective defense-in-depth processes for enhancing our cybersecurity posture. The DHS team worked directly with the information technology (IT), operations technology (OT), and management staff at the VWD facilities to determine the overall cybersecurity posture of its ICS. DHS recommends physical isolation of the control systems network from the business network.

Operations Impact: Hardware upgrades contained within this CIP aim to strengthen the cybersecurity posture of the District's industrial control systems (ICS) per DHS recommendations.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$43,000					$43,000
Design		$44,000					$44,000
Construction	$1,000	$151,000					$152,000
Total	$1,000	$238,000	$0	$0	$0	$0	**$239,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019							Jun 2024

Capital Improvement Program
Update Restrooms to ADA Compliance

Description: Remove and replace the existing counters, sinks, mirrors, and paint. Fire system lights will need to be installed in the restrooms for compliance.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2020100021

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Several restrooms in the Administration building need new counters, sinks, mirrors, and paint. When quotes were solicited for these updates, we were informed certain locations were not ADA compliant. Two areas of concern are the Lobby and Engineering restrooms.

Operations Impact: Some restrooms will be unavailable while under construction.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design	$40,000						$40,000
Construction		$151,000					$151,000
Total	$40,000	$151,000	$0	$0	$0	$0	**$191,000**

FY 2023/24 Budget Request - $93,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019				Jun 2023		Jun 2024	Jun 2024

Capital Improvement Program
AMI Pilot

Description: Pilot project to introduce the many benefits of an Advanced Metering Infrastructure.

Project Manager: Chris Tapia **Department:** Meter

Project: 2023100014 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: VWD has the foundation of an AMI, Advanced Metering Infrastructure, system in place with 32% (7,343) of our existing radios capable of broadcasting an over-the-air meter reading to a fixed network antenna. This pilot would be a proof-of-concept, standing up a single network base antenna to collect nearby readings which are pushed to a Sensus hosted server. The first antenna is readily available for use in collaboration with OMWD. The ability to use their antenna allows for a reduction in FY22-23 costs from $350,000 to $150,000. VWD will have access to hourly interval readings through the Sensus Network as a Service which is provided during the pilot. Pilot program will proceed for one year, initially. At the end of the pilot, if we decide to move forward, we can explore the cost and effort associated with a full integration into our Billing system, NorthStar. The estimated cost for full implementation is approximately $3,500,000. The full deployment can be done in phases as we seek grant funding to help supplement the cost through WaterSMART. A fully deployed AMI system will require at least 12 network base antennas strategically placed through our district. Full deployment will also required the remaining 68% (15,327) older radios currently in ground to be replaced with a newer version capable of hitting the AMI network. AMI is beneficial for our customers and for our district as we can have better water loss accountability. An AMI system can easily aggregate all retail meter sales and compare them against water purchased so we can monitor water loss throughout the system. Our customers will also have actionable data presented to them in a timely matter, currently drive-by reading system only provides one meter reading every ~30-days.

Operations Impact: Better water loss accountability & less drivetime for reads. More actionable data for the District and its customers. Will identify a meter "slowing" before it's dead.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$150,000					$150,000
Total	$0	$150,000	$0	$0	$0	$0	**$150,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022							Jun 2024

Capital Improvement Program
Upgrades to Surveillance Video Management System

Description: Upgrades to existing Video Recording systems are required to obtain additional coverage, fidelity, and performance of the District's centralized recording system.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2020100026 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Upgrades to the District's video recording systems have been recommended by the Department of Homeland Security (DHS). Long-range IR illuminators and additional cameras are recommended to provide additional coverage for dimly lit facilities. Current limitations of installed hardware adversely affect the quality of video recording during the night.

Operations Impact: Increased security, resiliency, and performance of existing video recording system.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$43,000					$43,000
Design		$50,000					$50,000
Construction	$12,000	$45,000					$57,000
Total	$12,000	$138,000	$0	$0	$0	$0	**$150,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019							Jun 2024

Capital Improvement Program
MRF: Circuit Breaker Program

Description: MRF: replace main circuit breaker, test and refurbish if possible.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2023100016 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: Large electrical circuit breakers should be inspected and serviced every three years. The Mechanical/Electrical Department is developing a circuit breaker maintenance program for all District facilities. This program will be on a three-year cycle. We will replace and test every circuit breaker that is 400 amps and above. This will be expensive for the first three years as we will need to buy replacement circuit breakers for each site. Each circuit breaker in this program will be removed and replaced with a new one. The old circuit breaker will then be sent out for testing and possible refurbishment. The refurbished breakers will be stored and available for use on the next cycle. This is a big undertaking that requires a substantial amount of planning. We will need to have a contractor perform this work at several of the sites to get the program started. This program is critical in order to maintain our facilities properly and meet current industry standards.

Operations Impact: Servicing the equipment in this program will help to insure a safe and reliable electrical system.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$130,000					$130,000
Total	$0	$130,000	$0	$0	$0	$0	**$130,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022					Jul 2022	Jun 2024	Jun 2024

Capital Improvement Program
Maximo - GIS interface

Description: Develop an interface to replicate data between the CMMS and GIS to ensure accurate and consistent asset information.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2022100011 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The District has implemented a computerized maintenance management system (CMMS) in IBM Maximo to track asset specifications, installation information, purchasing details and the work performed to maintain those assets. The District also maintains asset information in the geographic information system (GIS) which primarily documents asset location and connectivity in the water and sewer systems with cartography and maps, using the ESRI GIS software. It also tracks asset specifications, maintenance information and installation dates. These two systems have unique, non-redundant purposes but share asset information and work together to form a complete, complementary Asset Management system. Currently, the common information is not synchronized so updates to one system do not occur in the other. Staff strive to maintain the information manually but this is not efficient. To keep the information on our assets accurate and consistent, these two systems must be interfaced so that replication of data is occurring. This project will develop the data rules, interface design and technology to interface these two asset systems.

Operations Impact: Integration between these two systems will improve asset tracking and reduce inaccurate data.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$20,000	$15,000				$35,000
Design		$20,000	$15,000				$35,000
Construction		$35,000	$15,000				$50,000
Total	$0	$75,000	$45,000	$0	$0	$0	**$120,000**

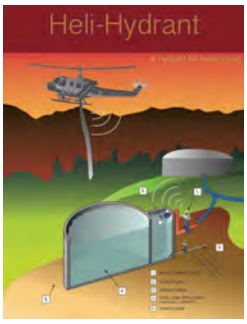
FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021							Jun 2025

Capital Improvement Program
Heli-Hydrant

Description: Installation of a Heli-Hydrant at the Palomar Tank Facility.



Project Manager: Ed Pedrazzi **Department:** Operations and Maintenance

Project: 2023100015 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: As the operator of the water system that provides fire suppression support for our customers through a network of water pipelines, the District plays an important role in the protection of life and property in our service area. With the ever-expanding range of fire season in our region, providing enhanced access to water for firefighting helicopters to protect the homes and properties of our customers is a crucial element of customer service. The Heli-Hydrant will transform the way fires are fought in North San Diego County by supplying a way to put water on fires sooner. Thus, reducing the negative impacts on life and property.

The Heli-Hydrant will supply firefighters with an added asset that can be used to protect the District's critical infrastructure such as pump stations, lift stations, and other remote facilities. This added asset may prevent the additional expenditure of replacing critical infrastructure if it were lost to fire.

Cost of the facility will be evenly split between the District and fire protection agencies.

Operations Impact: Routine Maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design	$10,000						$10,000
Construction		$90,000					$90,000
Total	$10,000	$90,000	$0	$0	$0	$0	**$100,000**

FY 2023/24 Budget Request - ($50,000)

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022			Jul 2022	Aug 2023	Sep 2022	Jun 2024	Jun 2024

Capital Improvement Program
MRF - Replacement of South Influent Pump

Description: The south influent pump needs to be replaced.

Project Manager: Matt Wiese **Department:** Meadowlark Reclamation Facility

Project: 2023100020 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The South Influent Pump Station at the Meadowlark Water Reclamation Facility conveys all local flow from around the Meadowlark Facility to the headworks where it combines with sewer from other lift stations for treatment. Two of the three South Influent Pump Station pumps have been replaced. The last remaining old pump requires excessive maintenance to remain in operation and needs to be replaced. A reliable third pump for the South Influent Pump Station is necessary in order to provide reliable operation.

Operations Impact: Improved reliability of the South Influent Pump Station operation.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$75,000					$75,000
Total	$0	$75,000	$0	$0	$0	$0	**$75,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022						Jun 2024	Jun 2024

Capital Improvement Program
Mountain Belle Reservoir Fence & Slope Restoration

Description: A fence and slope along the Mountain Belle Reservoir property line requires restoration due to encroachments.

Project Manager: Elizabeth Lopez **Department:** Engineering

Project: 2023100102 **Funding Source:** 100% Fund 110 – Water Replacement

Work Order: 242473

Comments: Due to encroachments from an adjacent property, a section of fence and sloped area on the Mountain Belle Reservoir will need to be restored. Survey of the property in the affected area has been completed.

Operations Impact: Routine maintenance

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning	$10,000						$10,000
Design		$10,000					$10,000
Construction		$50,000					$50,000
Total	$10,000	$60,000	$0	$0	$0	$0	**$70,000**

FY 2023/24 Budget Request - $5,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Apr 2024	May 2024	Sep 2024	Sep 2024	Jun 2025	Jun 2025

Capital Improvement Program
Primary Clarifier Sludge Pump Replacement

Description: Primary clarifier sludge pump replacements for the Meadowlark Reclamation Facility.

Project Manager: Matt Wiese **Department:** Meadowlark Reclamation Facility

Project: 2023100024 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The primary clarifier sludge pumps are in need of replacement. They are currently unable to handle the solids loading of the primary clarifiers as the rags and other debris get lodged between the shaft and motor stator. Rebuild and replacement parts are hard to obtain, requiring the maintenance department to pull parts from other pumps to complete one working pump. Removing solids from the primary clarifier is an essential part of wastewater treatment.

Operations Impact: Less maintenance time and resources spent on maintaining the primary sludge pumps.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction	$19,000	$41,000					$60,000
Total	$19,000	$41,000	$0	$0	$0	$0	**$60,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022							Jun 2024

Capital Improvement Program
Deer Springs Pump Station: Circuit Breaker Program

Description: Deer Springs Pump Station: replace main circuit breaker, test and refurbish if possible.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2023100027 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Large electrical circuit breakers should be inspected and serviced every three years. The Mechanical/Electrical Department is developing a circuit breaker maintenance program for all District facilities. This program will be on a three-year cycle. We will replace and test every circuit breaker that is 400 amps and above. This will be expensive for the first three years as we will need to buy replacement circuit breakers for each site. Each circuit breaker in this program will be removed and replaced with a new one. The old circuit breaker will then be sent out for testing and possible refurbishment. The refurbished breakers will be stored and available for use on the next cycle. This is a big undertaking that requires a substantial amount of planning. We will need to have a contractor perform this work at several of the sites to get the program started. This program is critical in order to maintain our facilities properly and meet current industry standards.

Operations Impact: Servicing the equipment in this program will help to insure a safe and reliable electrical system.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$48,000					$48,000
Total	$0	$48,000	$0	$0	$0	$0	**$48,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022					Jul 2022	Jun 2024	Jun 2024

Capital Improvement Program
Wulff Pump Station: Circuit Breaker Program

Description: Wulff Pump Station: replace main circuit breaker, test and refurbish if possible.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2023100026 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Large electrical circuit breakers should be inspected and serviced every three years. The Mechanical/Electrical Department is developing a circuit breaker maintenance program for all District facilities. This program will be on a three-year cycle. We will replace and test every circuit breaker that is 400 amps and above. This will be expensive for the first three years as we will need to buy replacement circuit breakers for each site. Each circuit breaker in this program will be removed and replaced with a new one. The old circuit breaker will then be sent out for testing and possible refurbishment. The refurbished breakers will be stored and available for use on the next cycle. This is a big undertaking that requires a substantial amount of planning. We will need to have a contractor perform this work at several of the sites to get the program started. This program is critical in order to maintain our facilities properly and meet current industry standards.

Operations Impact: Servicing the equipment in this program will help to insure a safe and reliable electrical system.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$48,000					$48,000
Total	$0	$48,000	$0	$0	$0	$0	**$48,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022					Jul 2022	Jun 2024	Jun 2024

Capital Improvement Program
OpenGOV Digital Transparency and Reporting

Description: Implementation of an open data and financial transparency solution will provide the public with access to District financial data via an online portal.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2022100031 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: In an effort to provide additional transparency, the Finance Department would like to make Financial data sets available for public review/consumption. The OpenGOV platform will allow the District to publish financial data via online dashboards which can be shared with the public.

Operations Impact: Provision of financial data sets for public consumption will provide additional transparency of District Financial data.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$20,000					$20,000
Total	$0	$20,000	$0	$0	$0	$0	**$20,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2021							Jun 2024

Capital Improvement Program
Electronic Signature Initiative for District Docs

Description: Implementation of an electronic signature solution to increase the efficiency of the document signing process. **Please note that this initiative will likely require a resolution by the Board of Directors to Authorize Use Digital Signatures as allowed by State law**

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2023100036 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: DocuSign, Inc., offers an electronic platform (eSignature) that allows users to transact business digitally anytime, anywhere, on any device, in a manner that is secure, legal, and easy to use. Replacing paper-intensive processes and allowing staff, constituents, vendors, and members of the public to conduct business through their Personal Computers (PC) or mobile devices will speed up the time it takes to provide services by providing faster turnaround times for execution of signed documents. DocuSign works with existing forms and documents, conforms to existing workflows and approval processes, and is delivered through a secure and scalable cloud platform. The software also integrates with back-end systems, such as the District's Laserfiche Document Management System. DocuSign can provide greater visibility into who has and has not signed documents, and automatically stores documents for retention and archival within DocuSign's server or behind the District's firewall. DocuSign's native apps for iOS, Android, and Windows 10 allows anyone to sign on their smartphone or tablet. The software also supports in-person signing using mobile devices, enabling the District to use electronic signatures even when staff are in the office.

Operations Impact: Increased efficiency of the document signing process

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$15,000					$15,000
Total	$0	$15,000	$0	$0	$0	$0	**$15,000**

FY 2023/24 Budget Request - $0

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2022							Jun 2024

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: Wes Owen **Department:** Finance

Project: 2024100001 **Funding Source:** 100% Fund 210 – Sewer Replacement

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 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$5,343,000	$6,421,000	$5,886,000	$6,072,000	$6,271,000	$29,993,000
Total	$0	$5,343,000	$6,421,000	$5,886,000	$6,072,000	$6,271,000	**$29,993,000**

FY 2023/24 Budget Request - $29,993,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009						Jun 2028	Jun 2028

Capital Improvement Program
Montiel Forcemain and Gravity Sewer Improvements

Description: The existing Montiel Lift Station's 6-inch discharge forcemain has surpassed the end of its design life and requires replacement. In addition, the influent 10-inch gravity sewer has surpassed the end of its design life and requires trenchless rehabilitation.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2024100002 **Funding Source:** 49% Fund 210 - Sewer Replacement
51% Fund 220 - Sewer Capacity

Comments: The Montiel Lift Station is a small facility just north of State Route-78 and east of Nordahl Road. This lift station was constructed in 1985 and was originally designed to serve as a temporary purpose. The lift station collects and conveys wastewater flows from a 200-acre area east of Nordahl Road near the District's eastern service area boundary. The lift station's discharge consists of 1,830 feet of 6-inch ductile iron pipe (DIP) forcemain which has surpassed the end of its design life. The District has prepared a planning document and determined that a gravity outfall solution, in partnership with the City of Escondido cannot be realized. This project is identified in the 2018 Master Plan as Project LS-1.

The existing forcemain discharge connection to the gravity manhole in Nordahl Road will be replaced as part of this project. An additional 2,350 feet of forcemain piping will be included downstream of this location to reduce the quantity/cost of future CIP replacements of the existing gravity sewer in the Nordahl Shopping Center. Additional rehabilitation of approximately 1,400 feet of existing 10-inch DIP influent gravity sewer segments upstream of the lift station will be replaced. Applying these project components under one scope of work presents an estimated savings of over $1,000,000 compared to executing individually as separate capital improvement projects.

Operations Impact: Routine monitoring and maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$2,800,000					$2,800,000
Total	$0	$2,800,000	$0	$0	$0	$0	**$2,800,000**

FY 2023/24 Budget Request - $2,800,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2019	Feb 2016	Jul 2021	Jun 2021	Jan 2023	Jul 2023	Mar 2024	Apr 2024

Capital Improvement Program
Water, Wastewater, and Recycled Water Master Plan

Description: The Water, Wastewater and Recycled Water Master Plan is the fundamental growth-related planning document of the District, which identifies current and future Capital Facility needs and the required funding to meet those needs. The Master Plan will be updated based on need due to land use changes and/or regulatory requirements and will include projections on water, wastewater, recycled water demands, facilities required to meet those demands, as well as long term buildout capital facilities and demands.

Project Manager: Jason Hubbard **Department:** Engineering

Project: 2024100003 **Funding Source:** 50% Fund 120 – Water Capacity
50% Fund 220 – Sewer Capacity

Comments: 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 2018 Master Plan, the District's per capita water and wastewater demands have changed due to various water supply and economic conditions, and the City of San Marcos has approved several developments with zoning changes. The District's diverse water supply portfolio, consisting of the purchase of treated water from the Olivenhain Water District and desalinated water directly from Poseidon Resources, continue to play a part in shifting capital project priorities. This item is part of the District's Strategic Plan – Strategic Focus Areas 1.3 and 6.4.

A supplemental Program Environmental Impact Report will be prepared in conjunction with the Master Plan update. This document will detail the impacts, at a programmatic level, 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 will analyze components of recycled water use will be included.

Operations Impact: Will identify new projects that will likely require routine maintenance activities.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$35,000	$682,000	$718,000			$1,435,000
Design							
Construction							
Total	$0	$35,000	$682,000	$718,000	$0	$0	**$1,435,000**

FY 2023/24 Budget Request - $1,435,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	May 2024	Jun 2026					Jun 2026

Capital Improvement Program
Sewer Lining and Rehab 2024

Description: The project consists of rehabilitating two manholes and approximately 9,500 feet of gravity sewer with trenchless cured-in-place pipe liner at locations throughout the District.

Project Manager: Ryan Morgan **Department:** Engineering

Project: 2024100004 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: Gravity sewer line segments totaling approximately 9,500 feet and two manholes are in need of rehabilitation to restore structural integrity and flow capacity. These pipe sections have become compromised due to a combination of O&M deficiencies (age, pipe material type, ground settlement, grease deposits, root intrusion) and structural defects (cracks, voids, collapse). Significant costs will be accrued upon line failures if the sections of sewer pipeline are not rehabilitated. The project will utilize trenchless cured-in-place pipe (CIPP) liners, to rehabilitate the existing pipelines. Two manholes north of La Plaza Drive are cracked and require rehabilitation to mitigate chronic inflow and infiltration conditions. To take advantage of scale of economy and to solicit more competitive bids, multiple sewer pipe segments and manholes are grouped together in one bid package, rather than broken into smaller projects.

Operations Impact: Restored structural integrity and flow capacity and increased service life of sewer line sections.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$5,000					$5,000
Design		$25,000	$60,000				$85,000
Construction				$760,000			$760,000
Total	$0	$30,000	$60,000	$760,000	$0	$0	**$850,000**

FY 2023/24 Budget Request - $850,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Sep 2023	Sep 2023	Jun 2025	Jul 2025	Nov 2025	Dec 2025

Capital Improvement Program
Technology Infrastructure Upgrades

Description: Replacement or upgrades of District technology infrastructure. Includes servers, networking equipment (wired/wireless), security appliances, and supporting infrastructure management solutions.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2024100005 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Secure and reliable technical infrastructure is mission critical to District operations and service to the public. Serious disruptions or costly unplanned emergency repairs can occur if end-of-life/end-of-support systems are not upgraded or replaced in a timely manner, resulting in reduced productivity and service levels.

Operations Impact: Replacement of end-of-life equipment is necessary to ensure continuity of business operations.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$160,000	$160,000	$130,000	$130,000	$260,000	$840,000
Total	$0	$160,000	$160,000	$130,000	$130,000	$260,000	**$840,000**

FY 2023/24 Budget Request - $840,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2027

Capital Improvement Program
Replace Roofing on Admin and Operations Buildings

Description: Remove and reuse existing tile. Replace underlayment, fixtures, facia, cracked tile and plywood sheeting on Building A. Building B has a small pitched roof with tile covering the HVAC system which will be replaced during this project.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2024100006

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The administration building has had several roof leaks in the last few years causing damage to the interior of the building. The roof is over 26 years old, which is the near the maximum life expectancy for a felt underlayment. It has been recommended by roofing contractors to replace the entire roof. The facia board is also in need of replacement and will be a part of this project.

Operations Impact: Construction noise may be loud at times, impacting employees working in their office.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$500,000					$500,000
Total	$0	$500,000	$0	$0	$0	$0	**$500,000**

FY 2023/24 Budget Request - $500,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
SCADA Business Integration & Digital Transform

Description: The SCADA Business Integration & Digital Transformation project covers multiple initiatives regarding automated reporting, dashboards, and integration of SCADA system data into business systems.

Project Manager: Matias Labarrere

Department: Information Technology

Project: 2024100007

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: In 2022, Vallecitos Water District (VWD) engaged Enterprise Automation (EA) to perform an audit of VWD's SCADA infrastructure, in which several recommendations were proposed as a result of the findings. Upon review of the recommendations with VWD staff, a SCADA Master Plan was developed that outlines the anticipated project scopes and budgets for the next few years. The projects were designed to directly address the recommendations of the SCADA Audit, while further pushing the SCADA system to align with VWD's vision.

This project covers multiple initiatives regarding automated reporting, dashboards, and integration of SCADA system data into business systems. The first phase of this project will set up the historian for direct end-user access to data, something that is currently not implemented yet is an easy change to alleviate immediate needs for data retrieval. The second phase of this project will cover the design and implementation of a reporting solution which will automatically generate defined reports on a scheduled basis, removing the need for the current manual process of assembling reports through spreadsheets. It will also include the design and implementation of system-wide graphical dashboards that provide real-time access to key performance indicators for end-users. The final phases of this project cover the implementation of new technologies to enhance the capabilities of what the SCADA system can provide for operational and business use. This includes integration of historical data into the CMMS (Maximo) for triggering of condition-based work orders, digitization of operator rounds for data collection from isolated equipment, and advanced analytics for process optimization and improving equipment reliability.

Operations Impact: A reporting system that is simple to use makes it easy to contextualize data, with which staff can make better operational decisions faster and with less effort. An effective reporting system will be one of the most valuable parts of a SCADA system that can directly demonstrate an ROI.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$57,000	$175,000	$109,000	$127,000		$468,000
Total	$0	$57,000	$175,000	$109,000	$127,000	$0	**$468,000**

FY 2023/24 Budget Request - $468,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2027

Capital Improvement Program
Fleet Electrification Project

Description: The District will develop a comprehensive assessment of electric vehicle needs with a strategy for a multi-tiered vehicle purchase and replacement process, including required support facilities and infrastructure.

Project Manager: Ed Pedrazzi

Department: Operations and Maintenance

Project: 2024100008

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The District maintains a fleet of over 100 vehicles and mobile equipment. In support of Executive Order N-79-20, the California Air Resources Board (CARB) drafted the proposed Advanced Clean Fleets (ACF) regulation in 2021. This regulation would accelerate the market for zero-emission trucks and buses by requiring fleets that are well suited for electrification to transition to zero-emission vehicles (ZEV) where feasible with a goal of 50% ZEVs beginning in 2024 and 100% ZEVs by 2027.

A Fleet Electrification Plan is needed to evaluate a strategy for a multi-tiered vehicle purchase and replacement process, including required support facilities and infrastructure. This will provide the District with a blueprint for the costs needed to meet this pending regulation.

Operations Impact: The Fleet Electrification Plan will evaluate operational impacts to converting the District's vehicular fleet.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$15,000	$5,000				$20,000
Design			$150,000	$100,000	$50,000		$300,000
Construction							
Total	$0	$15,000	$155,000	$100,000	$50,000	$0	**$320,000**

FY 2023/24 Budget Request - $320,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Jun 2024	Jul 2024	Jun 2027			Jun 2027

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: 2024100009 **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 1970. 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 backflow preventers in the 2023/24 fiscal budget 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 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$300,000					$300,000
Total	$0	$300,000	$0	$0	$0	$0	**$300,000**

FY 2023/24 Budget Request - $300,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
PC / Laptop Refresh Plan

Description: Replacement or upgrades of District Information Technology Assets. Includes PC Desktops, laptops and corresponding peripherals.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2024100010 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Secure and reliable technical infrastructure is mission critical to District operations and service to the public. Serious disruptions or costly unplanned emergency repairs can occur if end-of-life/end-of-support systems are not upgraded or replaced in a timely manner, resulting in reduced productivity and service levels. District PC's are refreshed over the course of a 5-year lifecycle, while Laptops are replaced every 3 years.

Operations Impact: Replacement of end-of-life equipment is necessary to ensure continuity of business operations.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$75,000	$75,000	$75,000	$75,000		$300,000
Total	$0	$75,000	$75,000	$75,000	$75,000	$0	**$300,000**

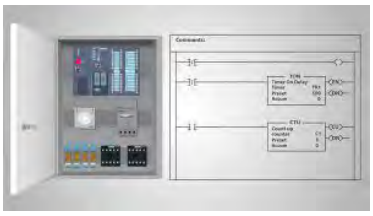
FY 2023/24 Budget Request - $300,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2023

Capital Improvement Program
SCADA Instrumentation Control and Elect. Standards

Description: The SCADA Instrumentation, Control, and Electrical Standards (IC&E) project covers multiple initiatives regarding design and implementation of a new suite of SCADA standards encompassing instrumentation, control, electrical, tagging, PLC logic programming.



Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2024100011 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: In 2022, Vallecitos Water District (VWD) engaged Enterprise Automation (EA) to perform an audit of VWD's SCADA infrastructure, in which several recommendations were proposed as a result of the findings. Upon review of the recommendations with VWD staff, a SCADA Master Plan was developed that outlines the anticipated project scopes and budgets for the next few years. The projects were designed to directly address the recommendations of the SCADA Audit, while further pushing the SCADA system to align with VWD's vision.

This project covers the design and implementation of a new suite of SCADA standards encompassing instrumentation, control, electrical, tagging, PLC logic programming/style, and HMI graphics programming/style. The work is broken up into multiple phases, starting with investigation of existing equipment and workshopping of desired outcomes, then writing of formal specification documents, and finally programming and testing of the PLC and HMI standards. This suite of standards will form the foundation for all new or upgraded sites in the future, ensuring consistency across all aspects of the SCADA system.

Also included in this project are two smaller projects, one to implement a formal change management process for SCADA system changes, and another to implement a central documentation repository for all SCADA-related engineering, operations, and maintenance documents.

Operations Impact: Having a set of clear, well documented, and enforced standards allows for every project involving SCADA to be more efficient, cheaper to implement, and significantly easier to start up and train staff. Full standards implementation has a clear ROI, which will show up in operational costs decreasing.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$170,000	$90,000				$260,000
Total	$0	$170,000	$90,000	$0	$0	$0	**$260,000**

FY 2023/24 Budget Request - $260,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2025

Capital Improvement Program
Barham Drive Sewer Improvements Reimbursement

Description: This partial reimbursement from the District to the Sunrise Orix developer is for upsizing 860 feet of sewer main extension in Barham Drive from 8-inch pipe required for the Sunrise Orix project to 10-inch pipe for future capacity.

Project Manager: Elizabeth Lopez **Department:** Engineering

Project: 2024100012 **Funding Source:** 100% Fund 220 – Sewer Capacity

Work Order: 211697

Comments: After the Board of Directors has approved Final Acceptance of the Sunrise Orix development project, the District will reimbursement the Sunrise Orix developer for upsizing a sewer main extension in Barham Drive from 8-inch pipe to 10-inch pipe for future growth. District reimbursement is in accordance with the Reimbursement Agreement for Construction of Oversized Facilities approved by the Board of Directors in January 2022.

Operations Impact: Increase sewer capacity.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$245,000					$245,000
Total	$0	$245,000	$0	$0	$0	$0	**$245,000**

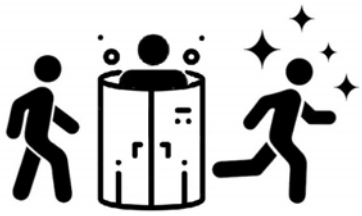
FY 2023/24 Budget Request - $245,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jan 2022	Jan 2022			Aug 2022	Jul 2024	Jul 2024

Capital Improvement Program
MRF - Tertiary Influent Basin Rehabilitation

Description: The Tertiary Treatment Area at the Meadowlark Water Reclamation Facility (MRF) requires rehabilitation and repairs to the influent chamber.



Project Manager: Ryan Morgan **Department:** Engineering

Project: 2024100013 **Funding Source:** 100% Fund 250 - Reclaimed

Comments: The Meadowlark Water Reclamation Facility's (MRF) Tertiary Treatment Area needs various repairs due to the corrosive nature of the treatment process. The existing high solids epoxy coating the tertiary influent chamber is failing. In addition, a joint sealant that runs perpendicular from the tertiary influent basin across basin #2 needs replacement.

Operations Impact: Restore operational functionality. Maintains the integrity of tertiary treatment area and operational processes. Normal maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$5,000					$5,000
Design		$20,000					$20,000
Construction			$200,000				$200,000
Total	$0	$25,000	$200,000	$0	$0	$0	**$225,000**

FY 2023/24 Budget Request - $225,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Jul 2023	Sep 2023	Oct 2023	Jun 2024	Jul 2024	Mar 2025	Apr 2025

Capital Improvement Program
District-wide Valve Replacement Program

Description: Replace broken or leaking valves throughout the District.

Project Manager: Kevin Anctil **Department:** Construction

Project: 2024100014 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: The valve crew has discovered many broken valves requiring replacement. This project is to replace several valves in the next fiscal year. The goal for the 2023/24 fiscal budget year is to replace 30 valves. Asset Management is currently working on an Accelerated Valve Replacement Program to coincide with these valve replacements.

Operations Impact: Improved ability to isolate water mains with less impact to customers. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$200,000					$200,000
Total	$0	$200,000	$0	$0	$0	$0	**$200,000**

FY 2023/24 Budget Request - $200,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Corte Lupe Waterline Replacement

Description: Replace 50 feet of 6-inch ductile iron (DIP) water main on Corte Lupe with 6-inch PVC pipeline. Reconnect to seven (7) service connections with existing meters.

Project Manager: Kevin Anctil **Department:** Engineering

Project: 2024100015 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: A 50 foot water distribution pipeline on Corte Lupe in the City of Carlsbad is in need of replacement to restore structural integrity. This 6-inch ductile iron (DIP) pipe section has become compromised due to a reduction in wall thickness due to external corrosion. The project includes replacement of seven (7) service connection outlets to existing meters. The water main has broken several times in recent history.

Operations Impact: Restored structural integrity and increased service life of water line section.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning		$25,000					$25,000
Design		$10,000	$25,000				$35,000
Construction				$100,000			$100,000
Total	$0	$35,000	$25,000	$100,000	$0	$0	**$160,000**

FY 2023/24 Budget Request - $160,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Mar 2024	Apr 2024	Dec 2024	Apr 2025	Jun 2026	Jun 2026

Capital Improvement Program
Building C: Repairs and Lighting Upgrades

Description: Make repairs to Building C walls and roof. Install new LED lighting. Paint outside walls and doors.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2024100016

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: Building C has cracks forming in the exterior walls that need to be repaired. The building has failing epoxy in the joints between the tilt up panels that need to be replaced. The roof needs new drain covers and vent tube covers added. The District has an ongoing program of converting all lighting to more efficient LED lights. The existing exterior lighting on the building will be replaced with LED fixtures. Two of the roll up doors in the Mechanics Bay need repair or replacement. The parapet wall on the roof leaks, allowing water into the building. All flashing on the roof will be resealed. The building will be be painted after all repairs have been completed.

Operations Impact: Staff will need to coordinate with the contractor while they are making repairs in the shop area.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$160,000					$160,000
Total	$0	$160,000	$0	$0	$0	$0	**$160,000**

FY 2023/24 Budget Request - $160,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Building A: Repairs and Lighting Upgrades

Description: Remove existing wall sconces and replace with new. Repair cracks in drywall and beams. Paint hallways and alcoves.

Project Manager: Steve Klein

Department: Maintenance Services

Project: 2024100017

Funding Source: 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The wall sconces for the lights in the administration building are deteriorating. The sconces fall apart when trying to change out light bulbs. The District has an ongoing program of converting all lighting to more efficient LED lights. The hallways need to be painted before the new sconces are installed or there will be shadows on the wall from the old lights. We have cracks in the drywall and overhead beams that need to be repaired prior to painting. The edges around the large wood beams running into the drywall will need to be sealed for a more professional look.

Operations Impact: Staff will experience occasional construction noise and some areas may be restricted while contractors make repairs throughout the administration building.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$160,000					$160,000
Total	$0	$160,000	$0	$0	$0	$0	**$160,000**

FY 2023/24 Budget Request - $160,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Managed Operating System Patching Services

Description: IT proposes the use of third-party managed operating system patching services to ensure timely installation of critical patches for the District's computing infrastructure.

Project Manager: Matias Labarrere **Department:** Information Technology

Project: 2024100018 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The Vallecitos Water District's Information Technology (IT) Division has directly managed computer system patching since PCs were introduced in the District in the late 1990s. At that time, patching had more to do with software enhancements or fixes and to correct system stability issues. Over the course of the past 10-15 years, maintaining 100% patch levels for all devices became critical for cybersecurity reasons. Patches released by software manufacturers to fix security flaws also inadvertently alerted malicious actors ("hackers") about those flaws. Hackers then write malicious code (viruses, worms, bots, rootkits, and Trojan horses, among others) or use other methods to take advantage of entities who have not applied the patches meant to repair the security flaws. Staff suggests enlisting the services of a dedicated patching provider. Such a provider would use purpose-built tools for automated scanning, testing, and deployment of patches. The District has an existing contract with Ostari, a consulting firm that provides IT support in the areas of infrastructure monitoring, help desk and network support. The firm has been providing IT support services to the District since 2011 and is in the best position to provide patching services due to existing knowledge of the District's network infrastructure.

Operations Impact: Timely installation of critical security patches will ensure continued confidentiality, integrity, and availability of District computing resources.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$40,000	$40,000	$40,000	$40,000		$160,000
Total	$0	$40,000	$40,000	$40,000	$40,000	$0	**$160,000**

FY 2023/24 Budget Request - $160,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2023

Capital Improvement Program
City of Carlsbad Joint Projects Relocate/Adjust

Description: This amount is set-aside to cover services rendered in conjunction with various City of Carlsbad projects involving District infrastructure. 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: Elizabeth Lopez **Department:** Engineering

Project: 2024100019 **Funding Source:** 100% Fund 210 – Sewer Replacement

Work Order: 236475

Comments:

Miscellaneous relocations/adjustments resulting from City of Carlsbad joint projects.
These projects are in conjunction with the City's Capital Improvement Plan. Currently one project is proposed:

Project:	Amount:
*El Camino Real	$75,000

* Totals do not include potential construction change orders.

Operations Impact: Normal maintenance for infrastructure.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design		$4,000					$4,000
Construction		$71,000					$71,000
Total	$0	$75,000	$0	$0	$0	$0	**$75,000**

FY 2023/24 Budget Request - $75,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2024	Jul 2023	Jun 2024			Jul 2023	Jun 2024	Jun 2024

Capital Improvement Program
MRF: Neuros Blowers Master Control Panel

Description: Installation of a Neuros Master Control Panel for the Meadowlark Reclamation Facility.

Project Manager: Matt Wiese

Department: Meadowlark Reclamation Facility

Project: 2024100020

Funding Source: 100% Fund 210 – Sewer Replacement

Comments: The aeration basin upgrade at the Meadowlark Reclamation Facility (MRF) has allowed for greater air transfer efficiency from the blowers to the biological process via fine air diffusers. MRF staff has limited ability to control the blowers through SCADA which results in a loss of efficiency. With the installation of a Neuros Master Control Panel, the system will automatically run in the most efficient configuration possible to match air demand, minimizing power consumption. The cost of this project covers procurement, installation and training.

Operations Impact: The Neuros Master Control Panel will create a more efficient, cost effective system.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$75,000					$75,000
Total	$0	$75,000	$0	$0	$0	$0	**$75,000**

FY 2023/24 Budget Request - $75,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Palos Vista Tank - Chlorine Injection Replacement

Description: Replacement of Palos Vista Tank - Chlorine Injection Station.

Project Manager: Shawn Askine **Department:** Water Operations

Project: 2024100021 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Palos Vista Tank has a chlorine injection unit that has been in service for over 20 years. The existing building is too small, making it difficult for staff to work in or perform maintenance. The fiberglass building has deteriorated in the sun and needs to be replaced before it fails. The injection equipment is beyond its useful life and the water quality analyzer needs to be replaced as well. We will expand the footprint and install a larger building and new equipment. It was suggested in the recent Sanitary Survey by the State Division of Drinking Water that we should consider replacing this chlorine injection facility during our next budget year.

Operations Impact: Secondary treatment for Palos Vista Tank water quality. Improved safety for Operators.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$75,000					$75,000
Total	$0	$75,000	$0	$0	$0	$0	**$75,000**

FY 2023/24 Budget Request - $75,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023					Jul 2023	Jun 2024	Jun 2024

Capital Improvement Program
Safety Nets and Climbing System for Twin Oaks #2

Description: Installation of safety nets and updated climbing system at the Twin Oaks Reservoir #2.

Project Manager: Shawn Askine **Department:** Water Operations

Project: 2024100022 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: The Twin Oaks Reservoir #2 hatches and climbing systems need to be upgraded to improve staff safety while performing maintenance and to comply with OSHA regulations. Twin Oaks Reservoir #2 is scheduled for cleaning next fiscal year. Safety nets will be installed on all hatches while the reservoir is offline for maintenance. The climbing system currently inside the reservoir will be replaced with the District's standard of the Self Retrieving Lifelines (SRLs) that have been installed at all steel tanks and Twin Oaks Reservoir #1. This will allow staff to safely access the inside of the reservoir during cleaning and maintenance operations.

Operations Impact: Improved safety during inspections and when entering the reservoir during cleaning operations.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$70,000					$70,000
Total	$0	$70,000	$0	$0	$0	$0	**$70,000**

FY 2023/24 Budget Request - $70,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023					Jul 2023	Jun 2024	Jun 2024

Capital Improvement Program
Trussell Flow Control Facility: Valve Upgrade

Description: Replace 8-inch valve with a 16-inch valve to reduce flow restrictions and provide 100% redundancy.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2024100023 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Trussell Flow Control Facility needs to have the secondary/bypass valve upsized to a 16-inch valve. The existing valve is an 8-inch valve and is not large enough to handle the amount of flow that passes through the station. The primary valve is a 14-inch valve and is undersized for current flow demands. Once the 16-inch valve is installed, it will become the primary valve and the 14-inch valve will be used as the secondary/bypass valve.

Operations Impact: The secondary/bypass valve will be offline during the upgrade.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$70,000					$70,000
Total	$0	$70,000	$0	$0	$0	$0	**$70,000**

FY 2023/24 Budget Request - $70,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Replacement of District Fuel Pumps

Description: Replace existing fuel pumps with new pumps.

Project Manager: Steve Klein **Department:** Maintenance Services

Project: 2024100024 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The current fuel pumps are outdated and no longer supported by the manufacture. We need to install new pumps that are reliable, can be serviced, and have repair parts available. We have had multiple failures with our existing pumps and they are beyond their service life. These pumps provide diesel and unleaded fuel for all of the District's vehicles and equipment and must be reliable.

Operations Impact: District staff may be required to procure fuel offsite during construction.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$50,000					$50,000
Total	$0	$50,000	$0	$0	$0	$0	**$50,000**

FY 2023/24 Budget Request - $50,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Replace Gate Controllers at VWD Headquarters

Description: Replace four gate controllers. Two on the front gate and two on the employee gate.

Project Manager: Steve Klein **Department:** Maintenance Services

Project: 2024100025 **Funding Source:** 51% Fund 110 – Water Replacement
49% Fund 210 - Sewer Replacement

Comments: The controllers for the front gate and the employee gate at the District's headquarters are no longer supported by the manufacture. Repair parts are no longer available. The gate controllers are not reliable and frequently break down requiring staff time and expensive repairs. The improper function of the gates can create a security and safety risk for the District as it can allow the public into restricted areas. The new gate controllers will provide reliable operation and can be properly maintained.

Operations Impact: A portion of the customer parking lot will be closed during this project.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$45,000					$45,000
Total	$0	$45,000	$0	$0	$0	$0	**$45,000**

FY 2023/24 Budget Request - $45,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Questhaven Lift Station: Repairs and Paint

Description: Remove rust from building and pipes. Paint all metal surfaces after rust removal. Repair and coat fence with two-part epoxy.

Project Manager: Steve Klein **Department:** Maintenance Services

Project: 2024100026 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The harsh environment of a sewer lift station can cause damage over time. We need to remove rust from the metal pipes and surfaces inside and outside of the building, make repairs to the damaged areas and recoat/paint. The metal gates and fence surrounding the lift station need to be repaired and epoxy coated.

Operations Impact: Staff will need to open the gates and doors of the lift station for the contractor during this project.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$45,000					$45,000
Total	$0	$45,000	$0	$0	$0	$0	**$45,000**

FY 2023/24 Budget Request - $45,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Palisades Water Improvements Reimbursement

Description: This partial reimbursement from the District to the Palisades developer is for upsizing 1,540 feet of existing 12-inch cement mortar lined and coated steel pipe (CMLC) being relocated within the Palisades development.

Project Manager: Elizabeth Lopez **Department:** Engineering

Project: 2024100027 **Funding Source:** 100% Fund 120 – Water Capacity

Work Order: 238855

Comments: After the Board of Directors has approved Final Acceptance of the Palisades Phase 1 and 2 development project, the District will reimbursement the Palisades developer for upsizing an existing 12-inch water main being relocated within the development near North Twin Oaks II reservoir from 14-inch pipe to 16-inch pipe. The District will reimburse the developer for upsizing the water main from 14-inch polyvinyl chloride (PVC) required for the Palisades project to 16-inch PVC for ultimate capacity in accordance with the District's Master Plan. District reimbursement will be in accordance with a Reimbursement Agreement for Construction of Oversized Facilities which will be brought to the Board of Directors for approval.

Operations Impact: Increase water capacity in accordance with the District's Master Plan.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$40,000					$40,000
Total	$0	$40,000	$0	$0	$0	$0	**$40,000**

FY 2023/24 Budget Request - $40,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jan 2022	Jan 2022			Aug 2022	Jul 2024	Jul 2024

Capital Improvement Program
MRF: Plant Influent Flow Meter Sump Pump

Description: MRF Plant Influent Flow Meter sump pump installation to allow dewatering of the flow meter manhole.

Project Manager: Matt Wiese **Department:** Meadowlark Reclamation Facility

Project: 2024100028 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The Meadowlark Reclamation Facility (MRF) influent flow meter is in a manhole on the north end of the plant. The manhole fills with groundwater and there is no sump pump to remove the water. MRF staff must place a sump pump in the manhole in order to manually remove the water. Since the sump is not directly under the manhole lid, the sump pump must be put in place by either swinging the pump on a line or making a confined space entry. The Plant Influent Flow Meter is critical to plant operations and will malfunction if the electronics come in contact with water. This project will allow MRF to place an automatic sump pump in the manhole and direct the discharge to a primary clarifier.

Operations Impact: The project will reduce potential injury to staff and ensure continued operation of the plant influent flow meter.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$40,000					$40,000
Total	$0	$40,000	$0	$0	$0	$0	**$40,000**

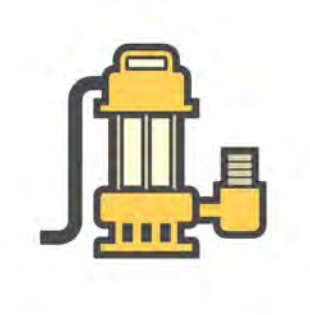
FY 2023/24 Budget Request - $40,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023					Jul 2023	Jun 2024	Jun 2024

Capital Improvement Program
MRF: Aeration Basin Sump Pump System

Description: Aeration basin system compressor condensate sump pump and conveyance system.



Project Manager: Matt Wiese **Department:** Meadowlark Reclamation Facility

Project: 2024100029 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The Meadowlark Reclamation Facility (MRF) recently upgraded and modified the biological treatment process with a bio selector and fine air diffusers. The bio selector utilizes a large air compressor to provide course air mixing. This air compressor generates several gallons of condensation per day that is deposited into a floor sump and collected in five gallon buckets. The five gallons buckets are then physically pulled out of the sump and carried to a basin by operators. This project would provide a sump pump system to automatically convey the contents of the sump to a nearby basin.

Operations Impact: The sump pump conveyance system will actively remove the compressor condensate while reducing the potential for injury.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$40,000					$40,000
Total	$0	$40,000	$0	$0	$0	$0	**$40,000**

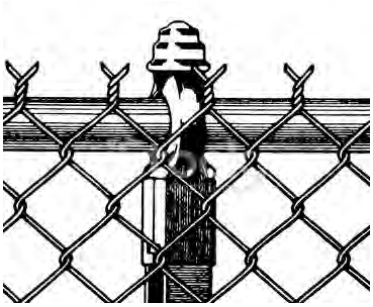
FY 2023/24 Budget Request - $40,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023	Jul 2023	Aug 2023			Sep 2023	Jun 2024	Jun 2024

Capital Improvement Program
Wulff Tank: Fence Installation

Description: Install 8-foot high chain link fence with barbed wire around the perimeter of the tank with a double gate in the front for access.



Project Manager: Steve Klein **Department:** Maintenance Services

Project: 2024100030 **Funding Source:** 100% Fund 110 – Water Replacement

Comments: Wulff tank has no fence around it to protect it from vandalism. The tank is within a gated community, but the gate is not owned by the District and is often left open. Installation of a fence will enhance security for the potable water tank and bring it into compliance with District standards.

Operations Impact: Enhanced security. Routine maintenance.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$30,000					$30,000
Total	$0	$30,000	$0	$0	$0	$0	**$30,000**

FY 2023/24 Budget Request - $30,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

Capital Improvement Program
Reroof Lake San Marcos Lift Station

Description: Reroof Lake San Marcos Lift Station with composition shingles.

Project Manager: Dean Toth **Department:** Mechanical/Electrical

Project: 2024100031 **Funding Source:** 100% Fund 210 – Sewer Replacement

Comments: The existing roof is leaking and showing signs of dry rot. The age of the roof is well beyond the typical service life of tile roofing. A roofing contractor will remove the existing roof, repair the dry rot, and install composition shingles.

Operations Impact: The building will need to be unlocked and the alarm disarmed during construction.

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning							
Design							
Construction		$19,000					$19,000
Total	$0	$19,000	$0	$0	$0	$0	**$19,000**

FY 2023/24 Budget Request - $19,000

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2023							Jun 2024

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: Ryan Morgan **Department:** Engineering

Project: TBA **Funding Source:** See Below

Project:	Amount:	Source:
Tres-Amigos Water Line Replacement Phase II	5,110,000	100% Fund 110 – Water Replacement
San Marcos Boulevard West Sewer Replacement	4,760,000	55% Fund 220 – Sewer Capacity, 45% Fund 210 – Sewer Replacement
Rees Road Water Line Relocation	3,030,000	100% Fund 110 – Water Replacement
Land Outfall Gravity Sewer Section B Replacement	2,295,000	20% Fund 220 - Sewer Capacity, 80% Fund 210 - Sewer Replacement
Mountain Belle Tank Interior & Exterior Refurb	1,975,000	100% Fund 110 – Water Replacement
Accelerated Valve Replacement Project 2023	1,500,000	100% Fund 110 – Water Replacement
Deer Springs Tank Refurbishment	900,000	100% Fund 110 – Water Replacement
Coronado Hills Pressure Reducing Station	520,000	100% Fund 110 – Water Replacement
Schoolhouse Water Line Improvements	400,000	36% Fund 120 – Water Capacity, 64% Fund 110 – Water Replacement
MRF Office and Facility Improvements	255,000	100% Fund 210 – Sewer Replacement
Total	$20,745,000	

Comments: These projects are part of the District's capital budget beginning after fiscal year 2023-24.

Operations Impact: Normal Maintenance for infrastructure

Project Spending Plan

Project Phase	Previous Spending	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28 & Thereafter	Total
Planning			$238,000		$60,000	$200,000	$498,000
Design			$154,000	$518,000	$270,000	$1,100,000	$2,042,000
Construction			$70,000	$3,635,000	$4,775,000	$9,725,000	$18,205,000
Total	$0	$0	$462,000	$4,153,000	$5,105,000	$11,025,000	**$20,745,000**

FY 2023/24 Budget Request - $20,745,000.00

Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
	Jul 2023	Jun 2029	Jul 2023	Nov 2030	Jul 2024	May 2032	May 2032

VALLECITOS WATER DISTRICT

2023-24 CAPITAL BUDGET - EASEMENTS, VEHICLES & EQUIPMENT SCHEDULE

VEHICLES/MOBILE EQUIPMENT

Existing Vehicle #	Description	Project #	New or Replacement	*Funding Source:* Water	Sewer	Total Cost
	Water Operations:					
	NO-DES Potable Water Main Flushing Trailer	2023100041	New	280,000		$ 280,000
173	F-550 Flatbed with Gooseneck	2024100032	Replacement	150,000		150,000
	Engineering Inspection:					
199	Ford F-150 XL 4x4, SuperCab	2023100044	Replacement	33,200	31,800	65,000
	Construction:					
225	Kenworth T370 Truck with Service Body	2022100039	Replacement	117,400	112,600	230,000
249	F-250 XL 4WD SuperCab	2022100040	Replacement	25,500	24,500	50,000
205/206	Ford F-250 XL 4x4, Super Duty	2023100048	Replacement	30,600	29,400	60,000
231	Freightliner Dump Truck	2024100033	Replacement	104,600	100,400	205,000
	Maintenance Services:					
	40Ex-HD Brush Mower: Backhoe Attachment	2024100034	New	12,200	11,800	24,000
	Mechanical/Electrical:					
228	F-550 XL 2WD	2022100043	Replacement	33,200	31,800	65,000
218	Ford F-350 XL 4x4, Regular Cab/Long Bed Service with Crane	2023100054	Replacement	33,200	31,800	65,000
	F-550 Bucket Lift Truck	2024100035	New	102,000	98,000	200,000
	Meters:					
232	Ford F-150 XL, SuperCab	2023100056	Replacement	45,000		45,000
TOTAL VEHICLES						*$ 1,439,000*

FACILITIES AND EQUIPMENT

Requesting Dept.	Description	Project #	New or Replacement	*Funding Source:* Water	Sewer	Total Cost
	Mechanical/Electrical:					
	Twin Oaks: Maintenance Parts for Bleach System	2024100036	Replacement	50,000	-	$ 50,000
	Mahr: Maintenance Parts for Bleach System	2024100037	Replacement		40,000	40,000
	Lift Station #1 - Pump Replacement	2024100038	Replacement	-	50,000	50,000
TOTAL FACILITIES AND EQUIPMENT						*$ 140,000*

VEHICLES & EQUIPMENT TOTAL **$ 1,579,000**

DEBT SERVICE BUDGET FOR THE YEAR ENDING JUNE 30, 2024

	Water		Wastewater		
	Replacement	Capacity	Replacement	Capacity	Total
2015 Refunding [1]					
Outstanding principal as of July 1, 2023[2]	$ -	$ 17,672,000	$ -	$ 17,013,000	$ 34,685,000
2023/24 Principal Payments	-	(1,319,610)	-	(1,270,390)	(2,590,000)
Outstanding principal as of June 30, 2024	$ -	$ 16,352,390	$ -	$ 15,742,610	$ 32,095,000
2008 Private Placement [3]					
Outstanding principal as of July 1, 2023	$ -	$ -	$ -	$ 2,200,000	$ 2,200,000
2023/24 Principal Payments	-	-	-	(400,000)	(400,000)
Outstanding principal as of June 30, 2024	$ -	$ -	$ -	$ 1,800,000	$ 1,800,000
2021 Bonds [4]					
Outstanding principal as of July 1, 2023	$ -	$ 10,340,100	$ -	$ 15,209,900	$ 25,550,000
2023/24 Principal Payments	-	-	-	-	-
Outstanding principal as of June 30, 2024	$ -	$ 10,340,100	$ -	$ 15,209,900	$ 25,550,000
2023/24 Debt Service Budget					
2015 Revenue Refunding principal	$ -	$ 1,319,610	$ -	$ 1,270,390	$ 2,590,000
2015 Revenue Refunding interest	-	820,800	-	790,200	1,611,000
2021 Bonds Interest	-	318,000	-	468,000	786,000
2008 Private Placement - principal	-	-	-	400,000	400,000
2008 Private Placement - interest	-	-	-	89,000	89,000
Total 2023/24 Debt Service Budget	$ -	$ 2,458,410	$ -	$ 3,017,590	$ 5,476,000
Projected Debt Service Coverage Ratio [5]					413%
Excluding Capital Facility Fees					264%
Excluding Capital Facility Fees and Property Tax					161%
Days of Operating Expenses in Unrestricted Cash and Investments					546

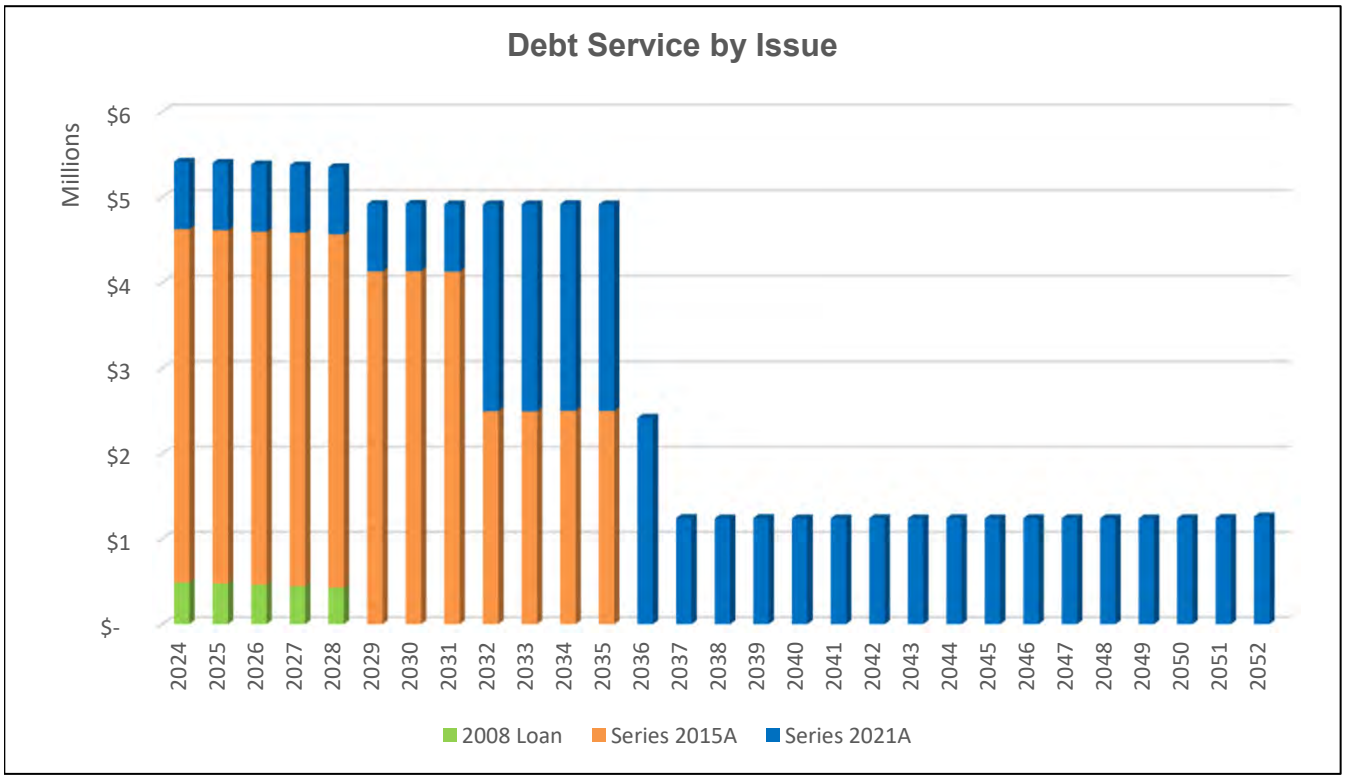
[1] The District issued Refunding Revenue Bonds on July 1, 2015, to prepay a portion of the previously outstanding COPS Series 2005A. The bonds have a 5% interest rate over the 20-year term.

[2] The 23/24 principal payment on the refunding bonds is due to bondholders on July 1, 2024. The District is obligated to transfer the payment before June 30, 2024, to a restricted account maintained by the Trustee, and, therefore, was deducted from the projected July 1, 2024 balance presented in the Reserve Budget.

[3] The District and Union Bank of California executed an $8 million 20-Year tax-exempt private placement with variable rate interest tied to the SOFR. The District has the option of changing the SOFR term. The current term is six months. The current rate is 4.16%. 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.

[4] The District issued bonds on August 19, 2021 to fund capital projects in the amount of $28 million. A portion of the proceeds was used to fund replacement projects and subsequently transferred to the capacity fund along with the responsiblity for the debt service. The bonds were issued at a total all-in cost of 2.24% over a 30-year term.

[5] Per the 2015 Refunding Revenue Bonds 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".


Debt Service by Issue
Millions
$6
$5
$4
$3
$2
$1
$-
2024
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2026
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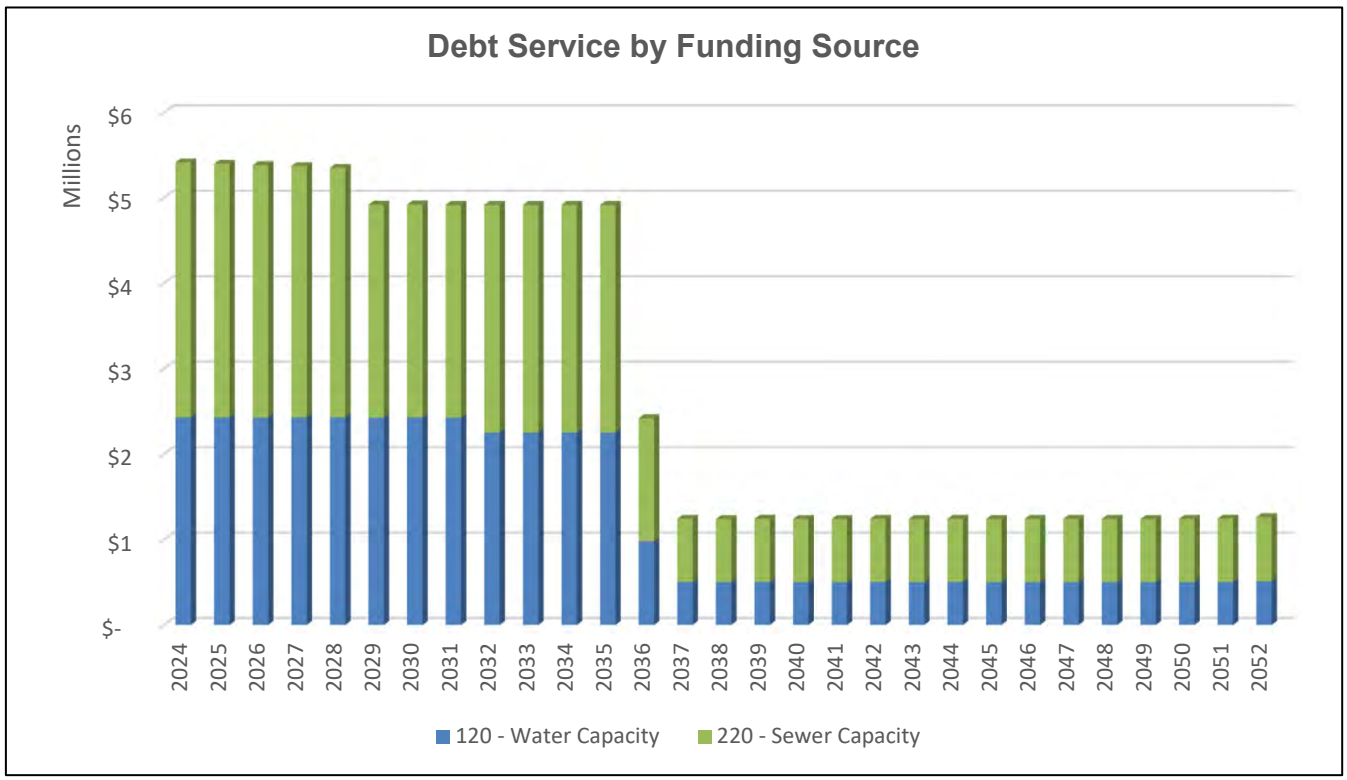
2051
2052
2008 Loan
Series 2015A
Series 2021A


Debt Service by Funding Source
Millions
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120 - Water Capacity
220 - Sewer Capacity

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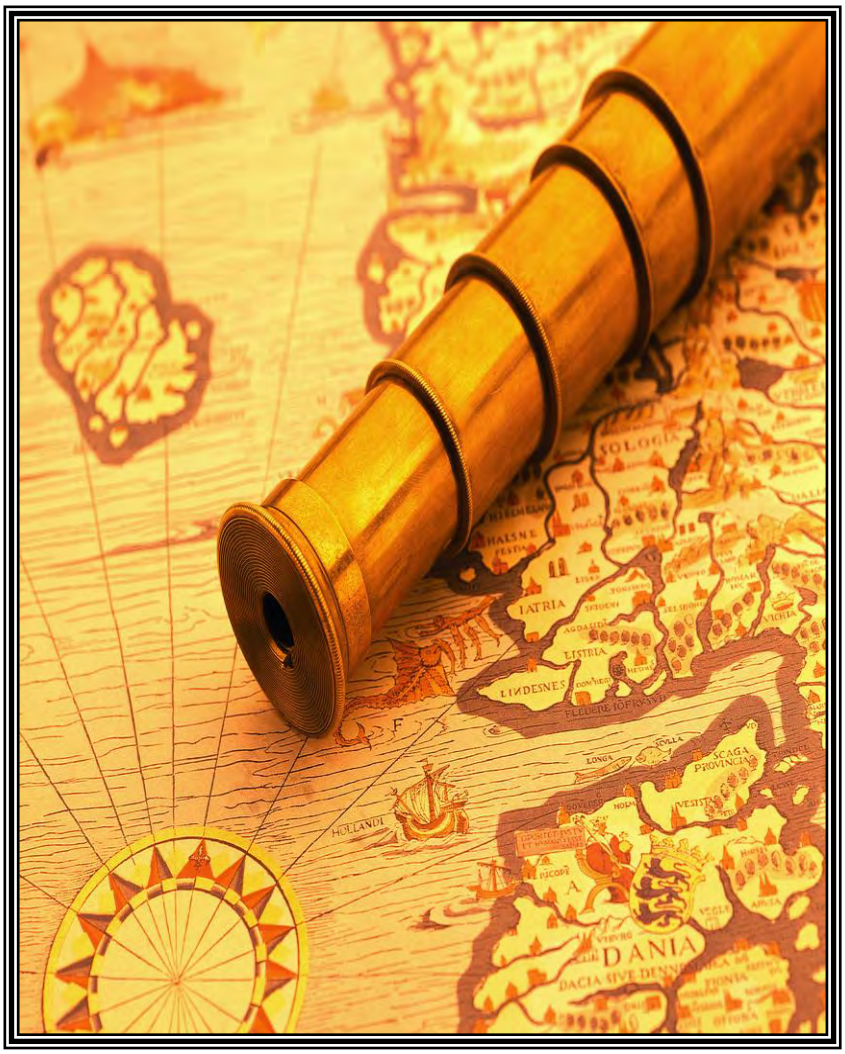
2023-24 LONG-RANGE PLANNING



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RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2024

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2023 Balance	$ 44,355,000	$ 3,636,000	$ 61,619,000	$ 2,210,000	$ 111,820,000
Revenues					
Operating Transfers	(520,000)	-	6,512,000	-	5,992,000
Capital Facility Fees	-	2,590,000	-	5,600,000	8,190,000
Debt Proceeds	1,161,000	-	4,714,000	422,000	6,297,000
Interfund Transfer	-	1,161,000	-	4,714,000	5,875,000
Property Tax	1,595,000	-	1,276,000	-	2,871,000
RDA pass-through	1,400,000	-	1,345,000	-	2,745,000
Investment Earnings	1,090,000	113,000	1,494,000	122,000	2,819,000
Available Balance	49,081,000	7,500,000	76,960,000	13,068,000	146,609,000
Less 23/24 Expenditures					
Encina Wastewater Authority Five Year Plan	-	-	5,343,000	-	5,343,000
City of San Marcos Creek District Phase 1	2,170,560	-	2,085,440	-	4,256,000
Meadowlark Failsafe Rehabilitation (Buena Reach)	-	-	3,500,000	-	3,500,000
Montiel Forcemain and Gravity Sewer Improvements	-	-	1,372,000	1,428,000	2,800,000
Montiel Lift Station Replacement	-	-	906,500	943,500	1,850,000
Vehicles	966,900	-	472,100	-	1,439,000
16-Inch Emergency Bypass and 12-Inch Failsafe Pipeline I	-	-	1,635,000	-	1,635,000
Coronado Hills Tank Interior and Exterior Refurbishment	1,000,000	-	-	-	1,000,000
MRF Stabilization and Maintenance Improvements	-	-	750,000	-	750,000
Replace Roofing on Admin and Operations Buildings	255,000	-	245,000	-	500,000
Pipeline Corrosion Protection Improvements	427,280	-	8,720	-	436,000
Richland I Tank Exterior Refurbishment	410,000	-	-	-	410,000
Maintenance Services Department - Offices	183,600	-	176,400	-	360,000
MRF Direct Potable Reuse	-	-	340,000	-	340,000
Ductile Iron Pipe Condition Assessment	335,000	-	-	-	335,000
City of San Marcos Joint Projects Relocate/Adjust	170,340	-	163,660	-	334,000
Meters Testing & Maintenance Building	40,800	-	39,200	-	80,000
Las Posas Water Line Replacement	305,000	-	-	-	305,000
Fire Services - Backflow Preventer Upgrades	300,000	-	-	-	300,000
Redundancy for Admin. Wireless Radio Network	152,490	-	146,510	-	299,000
Land Outfall Parallel Sewer Section A	-	-	60,000	190,000	250,000
Barham Drive Sewer Improvements Reimbursement	-	-	-	245,000	245,000
District-wide SCADA Upgrade Project	121,890	-	117,110	-	239,000
DHS- Upgrades for Critical Infrastructure Hardware	121,380	-	116,620	-	238,000
District-wide Valve Replacement Program	200,000	-	-	-	200,000
Lake San Marcos Lift Station Improvements	-	-	200,000	-	200,000
Tres-Amigos Water Line Replacement Phase 1	180,000	-	-	-	180,000
MRF Conversion to Sodium Hypochlorite	-	-	170,000	-	170,000
SCADA Instrumentation Control and Elect. Standards	86,700	-	83,300	-	170,000
Maximo Mobility	86,700	-	83,300	-	170,000
Building C: Repairs and Lighting Upgrades	81,590	-	78,410	-	160,000
Building A: Repairs and Lighting Upgrades	81,600	-	78,400	-	160,000
Technology Infrastructure Upgrades	81,600	-	78,400	-	160,000
Update Restrooms to ADA Compliance	77,010	-	73,990	-	151,000
Land Outfall West Repair and Rehabilition	-	-	150,000	-	150,000
Miscellaneous Projects	1,260,230	78,500	1,319,770	105,500	2,764,000
Interfund Transfer	1,161,000	-	4,714,000	-	5,875,000
Debt Service - 2008 Loan	-	-	-	489,000	489,000
Debt Service - 2021 Bonds	-	318,000	-	468,000	786,000
Debt Service - 2015 Refunding	-	2,140,000	-	2,061,000	4,201,000
Less Total Expenditures	10,256,660	2,536,500	24,506,840	5,930,000	43,230,000
Projected June 30, 2024 Balance	38,824,340	4,963,500	52,453,160	7,138,000	***$ 103,379,000***
Less Operating Reserves	7,050,100	-	7,511,700	-	14,561,800
Projected replacement reserve/restricted funds	$ 31,774,240	$ 4,963,500	$ 44,941,460	$ 7,138,000	$ 88,817,200
Adopted replacement reserve floor	$ 12,548,600		$ 24,434,700		
Adopted replacement reserve ceiling	$ 48,722,800		$ 78,792,000		

See significant assumptions on page 127

RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2025

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2024 Balance	$ 38,824,340	$ 4,963,500	$ 52,453,160	$ 7,138,000	$ 103,379,000
Revenues					
Operating Transfers	(1,636,000)	-	6,181,000	-	4,545,000
Capital Facility Fees	-	2,687,000	-	5,607,000	8,294,000
Project Reimbursements	-		2,927,000	-	2,927,000
Property Tax	1,629,000	-	1,303,000	-	2,932,000
RDA pass-through	1,442,000		1,385,000	-	2,827,000
Investment Earnings	936,000	128,000	1,303,000	178,000	2,545,000
Available Balance	41,195,340	7,778,500	65,552,160	12,923,000	127,449,000
Less 24/25 Expenditures					
Encina Wastewater Authority Five Year Plan	-	-	6,421,000	-	6,421,000
Chlorine Contact Tank Expansion	-	-	5,825,000	-	5,825,000
Tres-Amigos Water Line Replacement Phase 1	5,630,000	-	-	-	5,630,000
Montiel Lift Station Replacement	-	-	2,021,250	2,103,750	4,125,000
Meadowlark Failsafe Rehabilitation (Buena Reach)	-	-	1,275,000	-	1,275,000
Coronado Hills Tank Interior and Exterior Refurbishment	900,000	-	-	-	900,000
Water, Wastewater, and Recycled Water Master Plan	-	341,000	-	341,000	682,000
Twin Oaks Valley Road Sewer Improvement Phase 1	-	-	221,000	429,000	650,000
San Marcos Blvd at Pacific Street Sewer Relocation	-	-	648,000	-	648,000
Land Outfall Parallel Sewer Section A	-	-	144,000	456,000	600,000
Future Projects	192,000	-	151,750	118,250	462,000
Ductile Iron Pipe Condition Assessment	340,000	-	-	-	340,000
Lake San Marcos Lift Station Improvements	-	-	320,000	-	320,000
Rock Springs Valve Replacement	300,000	-	-	-	300,000
MRF Direct Potable Reuse	-	-	300,000	-	300,000
Pipeline Corrosion Protection Improvements	269,500	-	5,500	-	275,000
MRF - Tertiary Influent Basin Rehabilitation	-	-	200,000	-	200,000
Wulff Waterline Improvements	-	180,000	-	-	180,000
SCADA Business Integration & Digital Transform	89,250	-	85,750	-	175,000
Technology Infrastructure Upgrades	81,600	-	78,400	-	160,000
Fleet Electrification Project	79,050	-	75,950	-	155,000
Land Outfall West Repair and Rehabilition	-	-	120,000	-	120,000
Maximo Mobility	51,000	-	49,000	-	100,000
Asset Management Replacement Schedule	45,900	-	44,100	-	90,000
SCADA Instrumentation Control and Elect. Standards	45,900	-	44,100	-	90,000
HVAC System for District Headquarters	38,250	-	36,750	-	75,000
PC / Laptop Refresh Plan	38,250	-	36,750	-	75,000
Energy Management Systems	35,700	-	34,300	-	70,000
Miscellaneous Projects	128,350	-	111,150	5,500	245,000
Vehicles and Equipment	332,000	-	318,000	-	650,000
Debt Service - 2008 Loan	-	-	-	476,000	476,000
Debt Service - 2021 Bonds	-	318,000	-	468,000	786,000
Debt Service - 2015 Refunding	-	2,140,900	-	2,061,100	4,202,000
Less Total Expenditures	8,596,750	2,979,900	18,566,750	6,458,600	36,602,000
Projected June 30, 2025 Balance	32,598,590	4,798,600	46,985,410	6,464,400	***$ 90,847,000***
Less Operating Reserves	7,368,700	-	7,890,400	-	15,259,100
Projected replacement reserve/restricted funds	$ 25,229,890	$ 4,798,600	$ 39,095,010	$ 6,464,400	$ 75,587,900
Adopted replacement reserve floor	$ 13,493,800		$ 27,110,800		
Adopted replacement reserve ceiling	$ 50,011,200		$ 82,574,700		

Debt service coverage	*387%*
Debt service coverage without cap fees	*235%*
Debt service coverage without cap fees or property tax & RDA	*130%*
Days of Operating Expenses in Unrestricted Cash and Investments	*452*

See significant assumptions on page 127

RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2026

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2025 Balance	$ 32,598,590	$ 4,798,600	$ 46,985,410	$ 6,464,400	$ 90,847,000
Revenues					
Operating Transfers	(1,944,000)	-	6,320,000	-	4,376,000
Capital Facility Fees	-	2,778,000	-	5,759,000	8,537,000
Property Tax	1,664,000	-	1,331,000	-	2,995,000
RDA pass-through	1,485,000	-	1,427,000	-	2,912,000
Project Reimbursements	-	-	2,380,000	-	2,380,000
Investment Earnings	789,000	127,000	1,182,000	148,000	2,246,000
Available Balance	34,592,590	7,703,600	59,625,410	12,371,400	114,293,000
Less 25/26 Expenditures					
Encina Wastewater Authority Five Year Plan	-	-	5,886,000	-	5,886,000
Twin Oaks Valley Road Sewer Improvement Phase 1	-	-	1,445,000	2,805,000	4,250,000
Future Projects	3,503,000	-	402,500	247,500	4,153,000
Chlorine Contact Tank Expansion	-	-	3,425,000	-	3,425,000
MRF Conversion to Sodium Hypochlorite	-	-	1,800,000	-	1,800,000
Montiel Lift Station Replacement	-	-	698,250	726,750	1,425,000
Coggan Pump Station Improvements	1,200,000	-	-	-	1,200,000
HVAC System for District Headquarters	510,000	-	490,000	-	1,000,000
Sewer Lining and Rehab 2024	-	-	760,000	-	760,000
Water, Wastewater, and Recycled Water Master Plan	-	359,000	-	359,000	718,000
Land Outfall West Repair and Rehabilition	-	-	520,000	-	520,000
Steel Pipeline Condition Assessment	385,000	-	-	-	385,000
Richland Invert Replacement	-	-	150,750	184,250	335,000
Land Outfall Parallel Sewer Section A	-	-	72,000	228,000	300,000
Ductile Iron Pipe Condition Assessment	300,000	-	-	-	300,000
Pipeline Corrosion Protection Improvements	246,960	-	5,040	-	252,000
Meters Testing & Maintenance Building	127,500	-	122,500	-	250,000
Technology Infrastructure Upgrades	66,300	-	63,700	-	130,000
SCADA Business Integration & Digital Transform	55,590	-	53,410	-	109,000
Fleet Electrification Project	51,000	-	49,000	-	100,000
Corte Lupe Waterline Replacement	100,000	-	-	-	100,000
PC / Laptop Refresh Plan	38,250	-	36,750	-	75,000
Miscellaneous Projects	71,400	-	78,600	-	150,000
Vehicles and Equipment	332,000	-	318,000	-	650,000
Debt Service - 2008 Loan	-	-	-	462,000	462,000
Debt Service - 2021 Bonds	-	318,000	-	468,000	786,000
Debt Service - 2015 Refunding	-	2,146,000	-	2,065,000	4,211,000
Less Total Expenditures	6,987,000	2,823,000	16,376,500	7,545,500	33,732,000
Projected June 30, 2026 Balance	27,605,590	4,880,600	43,248,910	4,825,900	***$ 80,561,000***
Less Operating Reserves	7,712,900	-	8,086,200	-	15,799,100
Projected replacement reserve/restricted funds	$ 19,892,690	$ 4,880,600	$ 35,162,710	$ 4,825,900	$ 64,761,900
Adopted replacement reserve floor	$ 13,981,300		$ 29,832,000		
Adopted replacement reserve ceiling	$ 51,268,500		$ 85,321,600		

Debt service coverage	*386%*
Debt service coverage without cap fees	*230%*
Debt service coverage without cap fees or property tax & RDA	*121%*
Days of Operating Expenses in Unrestricted Cash and Investments	*378*

See significant assumptions on page 127

RESERVE PROJECTION FOR THE YEARS ENDING JUNE 30, 2027

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2026 Balance	$ 27,605,590	$ 4,880,600	$ 43,248,910	$ 4,825,900	$ 80,561,000
Revenues					
Operating Transfers	(1,093,000)	-	6,270,000	-	5,177,000
Capital Facility Fees	-	2,779,000	-	5,763,000	8,542,000
Property Tax	1,700,000	-	1,360,000	-	3,060,000
RDA pass-through	1,529,000	-	1,470,000	-	2,999,000
Debt Proceeds	-	-	6,542,750	9,062,250	15,605,000
Investment Earnings	722,000	134,000	1,139,000	135,000	2,130,000
Available Balance	30,463,590	7,793,600	60,030,660	19,786,150	118,074,000
Less 26/27 Expenditures					
Land Outfall Parallel Sewer Section A	-	-	2,088,000	6,612,000	8,700,000
Encina Wastewater Authority Five Year Plan	-	-	6,072,000	-	6,072,000
Future Projects	950,000	-	1,890,750	2,264,250	5,105,000
MRF Conversion to Sodium Hypochlorite	-	-	3,000,000	-	3,000,000
Twin Oaks Valley Road Sewer Improvement Phase 1	-	-	935,000	1,815,000	2,750,000
Meters Testing & Maintenance Building	1,045,500	-	1,004,500	-	2,050,000
Richland Invert Replacement	-	-	519,750	635,250	1,155,000
Steel Pipeline Condition Assessment	360,000	-	-	-	360,000
Rancheros Drive Sewer Rehabilitation	-	-	285,000	-	285,000
Technology Infrastructure Upgrades	66,300	-	63,700	-	130,000
SCADA Business Integration & Digital Transform	64,770	-	62,230	-	127,000
PC / Laptop Refresh Plan	38,250	-	36,750	-	75,000
Fleet Electrification Project	25,500	-	24,500	-	50,000
Energy Management Systems	25,500	-	24,500	-	50,000
Managed Operating System Patching Services	20,400	-	19,600	-	40,000
Vehicles and Equipment	332,000	-	318,000	-	650,000
Debt Service - 2008 Loan	-	-	-	445,000	445,000
Debt Service - 2021 Bonds	-	318,000	-	468,000	786,000
Debt Service - 2015 Refunding	-	2,146,000	-	2,066,000	4,212,000
Less Total Expenditures	2,928,220	2,464,000	16,344,280	14,305,500	36,042,000
Projected June 30, 2027 Balance	27,535,370	5,329,600	43,686,380	5,480,650	***$ 82,032,000***
Less Operating Reserves	8,077,300	-	8,381,600	-	16,458,900
Projected replacement reserve/restricted funds	$ 19,458,070	$ 5,329,600	$ 35,304,780	$ 5,480,650	$ 65,573,100
Adopted replacement reserve floor	$ 14,507,400		$ 32,318,300		
Adopted replacement reserve ceiling	$ 52,628,300		$ 87,129,200		

Debt service coverage	*402%*
Debt service coverage without cap fees	*246%*
Debt service coverage without cap fees or property tax & RDA	*134%*
Days of Operating Expenses in Unrestricted Cash and Investments	*366*

See significant assumptions on page 127

RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2028

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
Projected July 1, 2027 Balance	$ 27,535,370	$ 5,329,600	$ 43,686,380	$ 5,480,650	$ 82,032,000
Revenues					
Operating Transfers	494,000	-	6,316,000	-	6,810,000
Capital Facility Fees	-	2,780,000	-	5,767,000	8,547,000
Property Tax	1,737,000	-	1,389,000	-	3,126,000
RDA pass-through	1,575,000	-	1,514,000	-	3,089,000
Debt Proceeds	-	-	-	1,140,000	1,140,000
Investment Earnings	928,000	190,000	1,544,000	232,000	2,894,000
Available Balance	32,269,370	8,299,600	54,449,380	12,619,650	107,638,000
Less 27/28 Expenditures					
Future Projects	4,840,000	-	128,000	32,000	5,000,000
Encina Wastewater Authority Five Year Plan	-	-	6,271,000	-	6,271,000
Land Outfall Parallel Sewer Section A	-	-	360,000	1,140,000	1,500,000
Technology Infrastructure Upgrades	66,300	-	63,700	-	130,000
Vehicles and Equipment	332,000	-	318,000	-	650,000
Debt Service - 2027	-	-	162,000	338,000	500,000
Debt Service - 2008 Loan	-	-	-	427,000	427,000
Debt Service - 2021 Bonds	-	318,000	-	468,000	786,000
Debt Service - 2015 Refunding	-	2,146,000	-	2,066,000	4,212,000
Less Total Expenditures	5,238,300	2,464,000	7,302,700	4,471,000	19,476,000
Projected June 30, 2028 Balance	27,031,070	5,835,600	47,146,680	8,148,650	***$ 88,162,000***
Less Operating Reserves	8,483,200	-	8,682,900	-	17,166,100
Projected replacement reserve/restricted funds	$ 18,547,870	$ 5,835,600	$ 38,463,780	$ 8,148,650	$ 70,995,900
Adopted replacement reserve floor	$ 14,382,200		$ 32,715,600		
Adopted replacement reserve ceiling	$ 53,436,400		$ 83,503,100		

Debt service coverage	*413%*
Debt service coverage without cap fees	*269%*
Debt service coverage without cap fees or property tax & RDA	*164%*
Days of Operating Expenses in Unrestricted Cash and Investments	*374*

See significant assumptions on page 127

LONG RANGE RESERVE PROJECTION

	2028/29	2029/30	2030/31	2031/32	2032/33
Projected Beginning Balance	$ 88,162,000	$ 100,224,000	$ 112,794,000	$ 125,971,000	$ 137,896,000
Revenues					
Operating transfers	6,946,000	7,085,000	7,227,000	7,372,000	7,519,000
Capital facility fees	7,265,000	7,265,000	7,265,000	5,449,000	5,449,000
Property tax	3,193,000	3,262,000	3,332,000	3,404,000	3,477,000
Investment earnings	2,468,000	2,791,000	3,128,000	3,457,000	3,776,000
Capital outlay	(1,030,000)	(1,051,000)	(1,072,000)	(1,093,000)	(1,115,000)
Debt service	(6,780,000)	(6,782,000)	(6,703,000)	(6,664,000)	(6,632,000)
Projected Ending Balance	$ 100,224,000	$ 112,794,000	$ 125,971,000	$ 137,896,000	$ 150,370,000
Operating reserves	17,595,000	18,035,000	18,486,000	18,948,000	19,422,000
Projected replacement reserve/restricted funds	$ 82,629,000	$ 94,759,000	$ 107,485,000	$ 118,948,000	$ 130,948,000
Adopted replacement reserve floor	$ 48,381,000	$ 50,239,000	$ 50,269,000	$ 49,266,000	$ 44,022,000
Adopted replacement reserve ceiling	$ 128,395,000	$ 134,559,000	$ 134,729,000	$ 134,015,000	$ 133,342,000

Significant Assumptions

Operating Transfers - the result of operating activity transferred from the disbursements fund during the year. Operating transfers from FY 2029 through 2033 will increase by 2%.

Rates - For budget purposes combined water and sewer rates for the average single family resident are expected to increase approximately 5.0% to 5.5% January 1, 2024 pending results from the San Diego County Water Authority. Rate increases and are estimated to increase by approximately 5.0% to 6.0% January 1, 2025 and beyond.

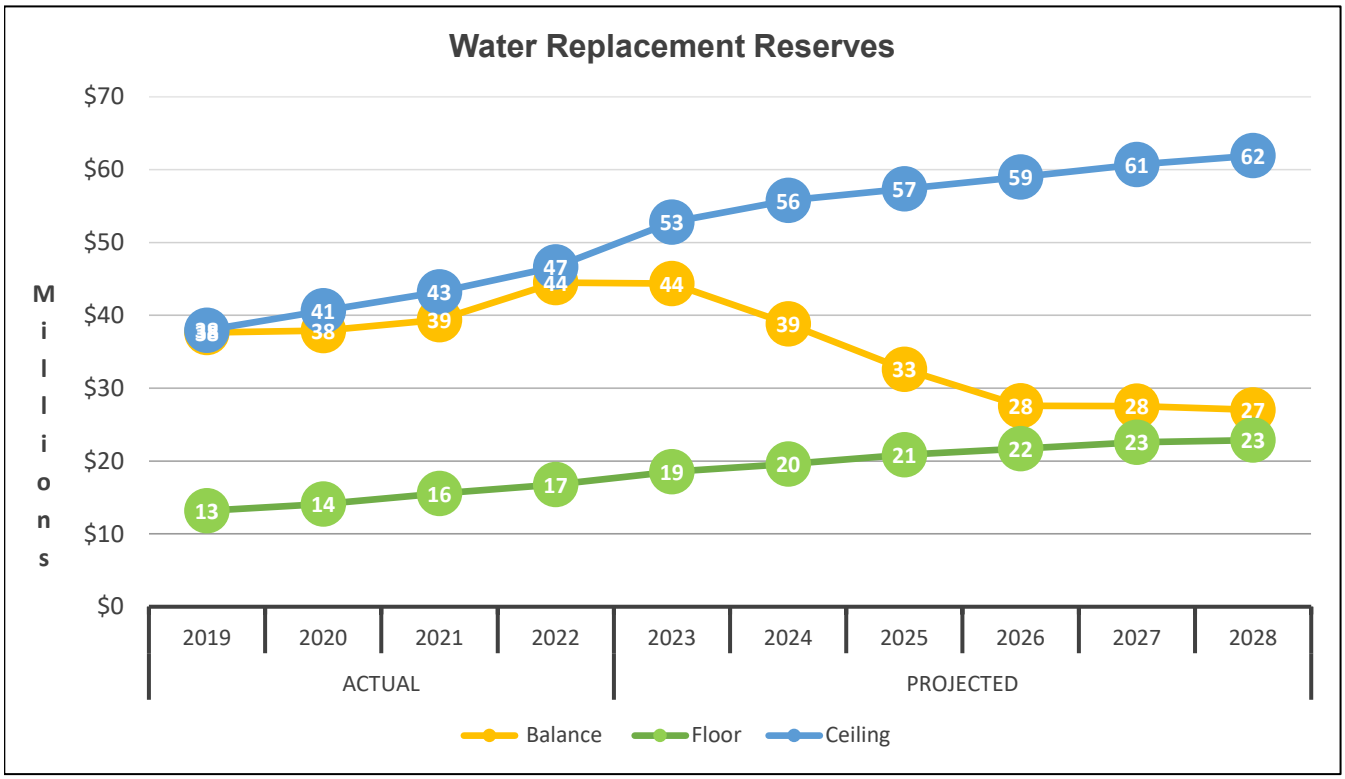
Operating Expense Assumptions - Over the next five years, cost of wholesale water commodity will increase by approximately 40% and wholesale fixed charges will increase by approximately 35%. Power, fuel, and chemical costs will increase by 4.5% per year, while most other operating costs will increase by 2% from year-to-year on average. The District will add 100 to 120 water accounts in 2023/24, and 100 to 120 in 2024/25 and every year thereafter. The District will add 100 to 120 sewer accounts in 2023/24 and approximately 100 to 120 in 2024/25 and each year thereafter.

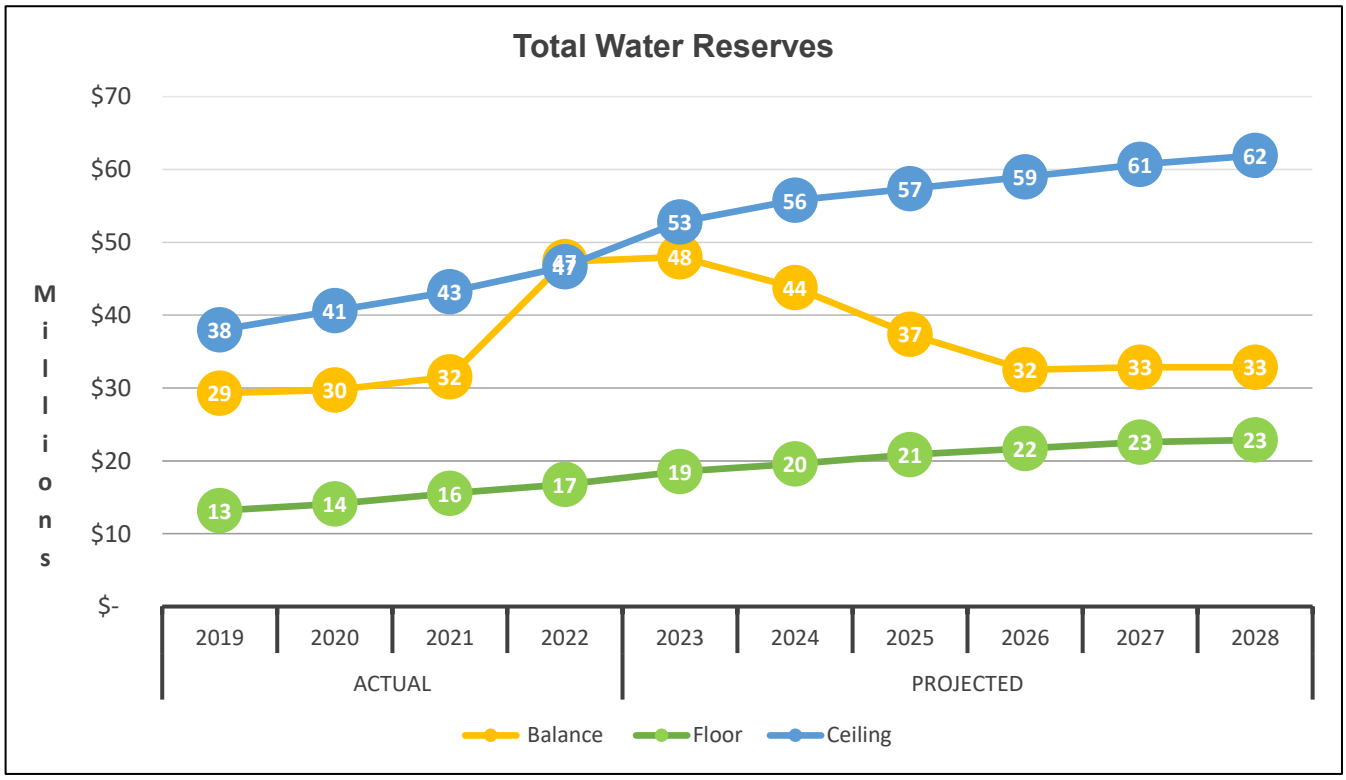
Capital Facility Fees – The District will collect capacity charges for 270 water EDUs in fiscal year 2023/24 and between 225 and 300 EDUs in each fiscal year, 2024/25 through 2027/28. The District will collect capacity charges for 350 sewer EDUs in 2023/24 and between 300 and 375 sewer EDUs from 2024/25 through 2027/28. The rate per EDU will increase by the ENR each year.

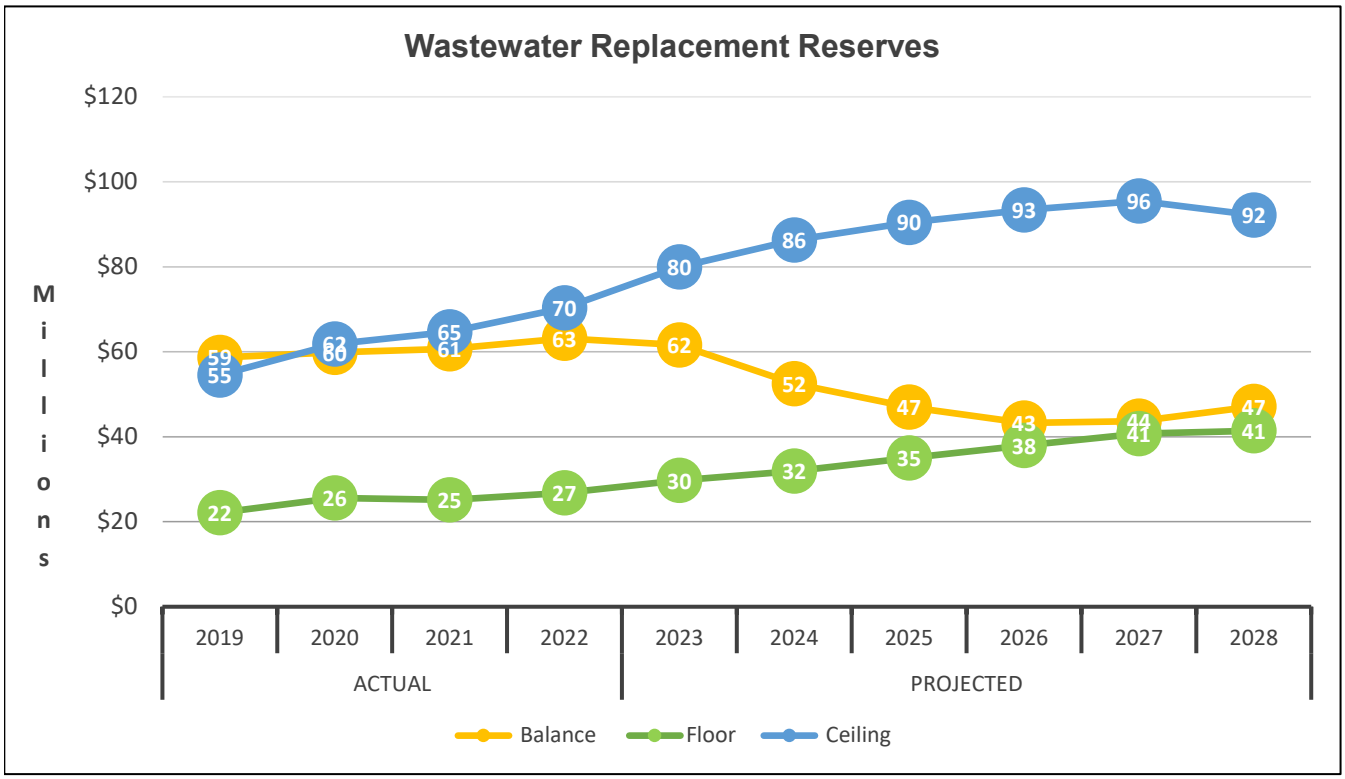
Property Tax - revenue from the 1% allocation will increase by 2.15% each year.

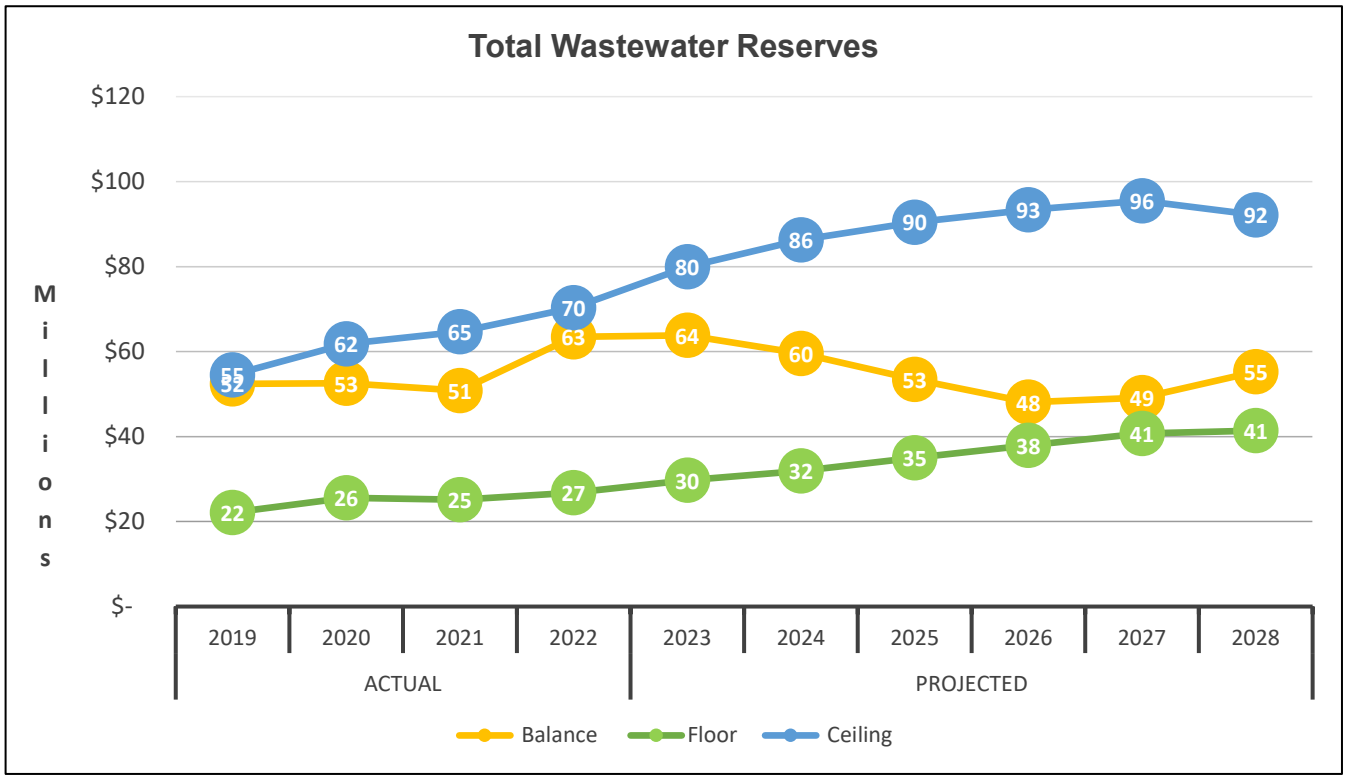
Investment Earnings - assumed at 2.60%.

Capital Outlay - scheduled after Fiscal Year 2028 will be expended evenly over six years.


Water Replacement Reserves
Millions
$70
$60
$50
$40
$30
$20
$10
$0
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
ACTUAL
PROJECTED
Balance
Floor
Ceiling


Total Water Reserves
Millions
$70
$60
$50
$40
$30
$20
$10
$-
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
ACTUAL
PROJECTED
Balance
Floor
Ceiling

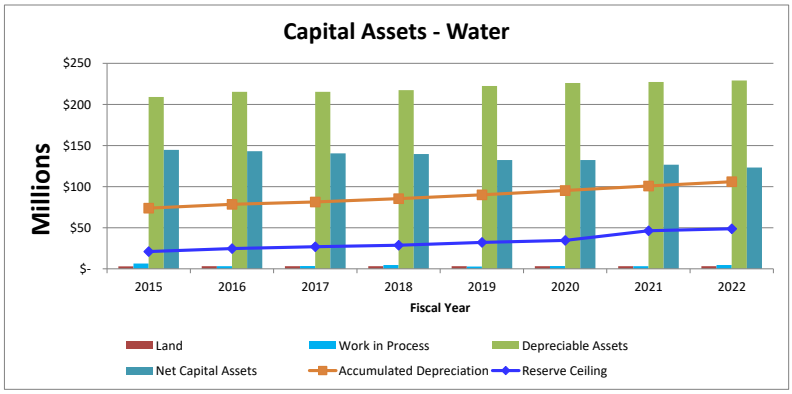

Wastewater Replacement Reserves
Millions
$120
$100
$80
$60
$40
$20
$0
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
ACTUAL
PROJECTED
Balance
Floor
Ceiling


Total Wastewater Reserves
Millions
$120
$100
$80
$60
$40
$20
$-
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
ACTUAL
PROJECTED
Balance
Floor
Ceiling

Vallecitos Water District
Replacement Reserve Limits - Water System
For the 2023-24 Budget year

ENR Index (as of March 2023)	13177

Year Added	Original Cost	ENR Factor	2023 Costs	Year of Replacement 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1957	$ 923,038	18.20	$ 16,799,547	541,921	541,921	541,921	541,921	-	-	-	-	-	-
1958	134,201	17.36	2,329,864	75,157	75,157	75,157	75,157	75,157	-	-	-	-	-
1963	2,067,687	14.62	30,239,636	975,472	975,472	975,472	975,472	975,472	975,472	975,472	975,472	975,472	-
1964	181,560	14.08	2,556,000	82,452	82,452	82,452	82,452	82,452	82,452	82,452	82,452	82,452	82,452
1965	256,377	13.57	3,479,176	112,231	112,231	112,231	112,231	112,231	112,231	112,231	112,231	112,231	112,231
1966	107,429	12.93	1,389,197	44,813	44,813	44,813	44,813	44,813	44,813	44,813	44,813	44,813	44,813
1967	122,039	12.27	1,497,307	48,300	48,300	48,300	48,300	48,300	48,300	48,300	48,300	48,300	48,300
1968	37,421	11.41	426,923	13,772	13,772	13,772	13,772	13,772	13,772	13,772	13,772	13,772	13,772
1969	39,742	10.38	412,672	13,312	13,312	13,312	13,312	13,312	13,312	13,312	13,312	13,312	13,312
1970	37,955	9.54	362,153	11,682	11,682	11,682	11,682	11,682	11,682	11,682	11,682	11,682	11,682
1971	90,080	8.33	750,781	24,219	24,219	24,219	24,219	24,219	24,219	24,219	24,219	24,219	24,219
1972	77,091	7.52	579,480	18,693	18,693	18,693	18,693	18,693	18,693	18,693	18,693	18,693	18,693
1973	169,427	6.95	1,178,121	38,004	38,004	38,004	38,004	38,004	38,004	38,004	38,004	38,004	38,004
1974	141,987	6.52	926,219	29,878	29,878	29,878	29,878	29,878	29,878	29,878	29,878	29,878	29,878
1975	230,530	5.96	1,373,279	44,299	44,299	44,299	44,299	44,299	44,299	44,299	44,299	44,299	44,299
1976	296,066	5.49	1,624,849	52,414	52,414	52,414	52,414	52,414	52,414	52,414	52,414	52,414	52,414
1977	303,133	5.12	1,550,615	50,020	50,020	50,020	50,020	50,020	50,020	50,020	50,020	50,020	50,020
1978	3,353,752	4.75	15,919,449	513,531	513,531	513,531	513,531	513,531	513,531	513,531	513,531	513,531	513,531
1979	933,794	4.39	4,097,437	132,175	132,175	132,175	132,175	132,175	132,175	132,175	132,175	132,175	132,175
1980	390,894	4.07	1,591,230	51,330	51,330	51,330	51,330	51,330	51,330	51,330	51,330	51,330	51,330
1981	397,944	3.73	1,483,369	47,851	47,851	47,851	47,851	47,851	47,851	47,851	47,851	47,851	47,851
1982	1,933,811	3.44	6,661,916	214,901	214,901	214,901	214,901	214,901	214,901	214,901	214,901	214,901	214,901
1983	3,393,243	3.24	10,996,744	354,734	354,734	354,734	354,734	354,734	354,734	354,734	354,734	354,734	354,734
1984	5,435,002	3.18	17,273,763	557,218	557,218	557,218	557,218	557,218	557,218	557,218	557,218	557,218	557,218
1985	675,452	3.14	2,121,676	68,441	68,441	68,441	68,441	68,441	68,441	68,441	68,441	68,441	68,441
1986	611,788	3.07	1,876,957	-	60,547	60,547	60,547	60,547	60,547	60,547	60,547	60,547	60,547
1987	799,052	2.99	2,389,720	-	-	77,088	77,088	77,088	77,088	77,088	77,088	77,088	77,088
1988	8,585,267	2.92	25,033,871	-	-	-	807,544	807,544	807,544	807,544	807,544	807,544	807,544
1989	1,572,104	2.86	4,488,757	-	-	-	-	144,799	144,799	144,799	144,799	144,799	144,799
1990	2,124,484	2.78	5,915,961	-	-	-	-	-	190,837	190,837	190,837	190,837	190,837
1991	1,777,396	2.73	4,844,001	-	-	-	-	-	-	156,258	156,258	156,258	156,258
1992	8,263,508	2.64	21,843,179	-	-	-	-	-	-	-	704,619	704,619	704,619
1993	3,727,844	2.53	9,428,369	-	-	-	-	-	-	-	-	304,141	304,141
1994	2,198,280	2.44	5,356,275	-	-	-	-	-	-	-	-	-	172,783
1995	4,438,365	2.41	10,689,880	-	-	-	-	-	-	-	-	-	-
1996	1,872,216	2.34	4,389,714	-	-	-	-	-	-	-	-	-	-
1997	3,075,659	2.26	6,956,395	-	-	-	-	-	-	-	-	-	-
1998	4,236,142	2.23	9,428,994	-	-	-	-	-	-	-	-	-	-
1999	1,216,379	2.17	2,645,358	-								-	-
2000	33,016,987	2.12	69,934,872	-								-	-
2001	1,599,452	2.08	3,322,715	-								-	-
2002	2,243,174	2.02	4,521,001	-								-	-
2003	8,148,602	1.97	16,038,820	-								-	-
2004	4,803,706	1.85	8,896,615	-								-	-
2005	4,945,039	1.77	8,751,135	-								-	-
2006	6,296,020	1.70	10,703,478	-								-	-
2007	9,123,102	1.65	15,091,026	-								-	-
2008	7,200,501	1.59	11,417,690	-								-	-
2009	32,403,360	1.54	49,822,529	-								-	-
2010	4,510,327	1.50	6,752,168	-								-	-
2011	2,053,547	1.45	2,983,417	-								-	-
2012	1,249,525	1.42	1,768,907	-								-	-
2013	3,574,225	1.39	4,980,180	-								-	-
2014	1,464,242	1.34	1,967,603	-								-	-
2015	1,950,156	1.31	2,563,312	-								-	-
2016	6,131,372	1.31	8,059,161	-								-	-
2017	-	1.28	-	-	-	-	-	-	-	-	-	-	-
2018	3,142,674	1.18	3,717,660	-	-	-	-	-	-	-	-	-	-
2019	4,082,656	1.17	4,791,339	-	-	-	-	-	-	-	-	-	-
2020	3,806,843	1.16	4,401,401	-	-	-	-	-	-	-	-	-	-
2021	1,437,411	1.12	1,611,980	-	-	-	-	-	-	-	-	-	-
2022	1,895,153	1.03	1,952,344	-	-	-	-	-	-	-	-	-	-
	$ 211,306,213		$ 486,958,185	4,116,819	4,177,366	4,254,454	5,061,998	4,664,876	4,780,557	4,936,815	5,641,433	5,945,574	5,142,885



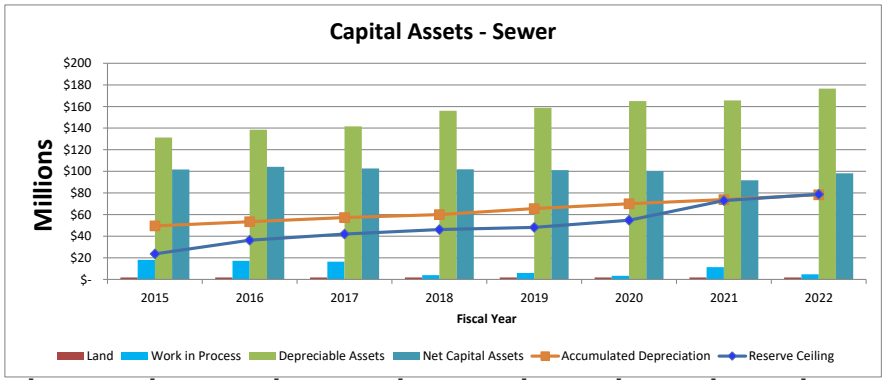
Three-Year Minimum Reserve Balance <-------$12,548,640------->

Ten-Year Maximum Reserve Balance <---------- $48,722,779 ---------->

Vallecitos Water District
Replacement Reserve Limits - Wastewater System
For the 2023-24 Budget year

ENR Index (as of March 2023)	13177

Year Added	Original Cost	ENR Factor	2023 Costs	Year of Replacement 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
1964	$ 1,421,340	14.08	$ 20,009,612	-	-	-	-	-	-	-	-	-	-
1965	394,116	13.57	5,348,369	-	-	-	-	-	-	-	-	-	-
1966	110,183	12.93	1,424,810	-	-	-	-	-	-	-	-	-	-
1967	41,816	12.27	513,044	-	-	-	-	-	-	-	-	-	-
1968	24,352	11.41	277,824	-	-	-	-	-	-	-	-	-	-
1969	28,784	10.38	298,886	-	-	-	-	-	-	-	-	-	-
1970	1,617,466	9.54	15,433,273	-	-	-	-	-	-	-	-	-	-
1971	53,601	8.33	446,743	-	-	-	-	-	-	-	-	-	-
1972	78,755	7.52	591,988	-	-	-	-	-	-	-	-	-	-
1973	149,279	6.95	1,038,021	-	-	-	-	-	-	-	-	-	-
1974	409,501	6.52	2,671,284	166,955	-	-	-	-	-	-	-	-	-
1975	189,378	5.96	1,128,135	70,508	70,508	-	-	-	-	-	-	-	-
1976	151,559	5.49	831,775	51,986	51,986	51,986	-	-	-	-	-	-	-
1977	394,775	5.12	2,019,391	126,212	126,212	126,212	126,212	-	-	-	-	-	-
1978	930,683	4.75	4,417,727	276,108	276,108	276,108	276,108	276,108	-	-	-	-	-
1979	697,184	4.39	3,059,205	191,200	191,200	191,200	191,200	191,200	191,200	-	-	-	-
1980	139,384	4.07	567,397	35,462	35,462	35,462	35,462	35,462	35,462	35,462	-	-	-
1981	192,586	3.73	717,880	44,867	44,867	44,867	44,867	44,867	44,867	44,867	44,867	-	-
1982	4,772,279	3.44	16,440,345	1,027,522	1,027,522	1,027,522	1,027,522	1,027,522	1,027,522	1,027,522	1,027,522	1,027,522	-
1985	5,149,309	3.14	16,174,599	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912	1,010,912
1986	19,355,791	3.07	59,383,296	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456	3,711,456
1987	381,136	2.99	1,139,861	71,241	71,241	71,241	71,241	71,241	71,241	71,241	71,241	71,241	71,241
1988	1,232,431	2.92	3,593,659	224,604	224,604	224,604	224,604	224,604	224,604	224,604	224,604	224,604	224,604
1989	2,001,761	2.86	5,715,537	357,221	357,221	357,221	357,221	357,221	357,221	357,221	357,221	357,221	357,221
1990	3,031,169	2.78	8,440,768	527,548	527,548	527,548	527,548	527,548	527,548	527,548	527,548	527,548	527,548
1991	1,864,618	2.73	5,081,711	-	317,607	317,607	317,607	317,607	317,607	317,607	317,607	317,607	317,607
1992	3,162,421	2.64	8,359,322	-	-	522,458	522,458	522,458	522,458	522,458	522,458	522,458	522,458
1993	13,446,724	2.53	34,009,114	-	-	-	2,125,570	2,125,570	2,125,570	2,125,570	2,125,570	2,125,570	2,125,570
1994	2,113,222	2.44	5,149,025	-	-	-	-	321,814	321,814	321,814	321,814	321,814	321,814
1995	3,276,618	2.41	7,891,792	-	-	-	-	-	493,237	493,237	493,237	493,237	493,237
1996	1,199,768	2.34	2,813,050	-	-	-	-	-	-	175,816	175,816	175,816	175,816
1997	988,964	2.26	2,236,797	-	-	-	-	-	-	-	139,800	139,800	139,800
1998	4,670,391	2.23	10,395,565	-	-	-	-	-	-	-	-	649,723	649,723
1999	1,047,495	2.17	2,278,073	-	-	-	-	-	-	-	-	-	142,380
2000	3,954,391	2.12	8,375,986	-	-	-	-	-	-	-	-	-	-
2001	2,705,995	2.08	5,621,456									-	-
2002	109,018	2.02	219,720									-	-
2003	9,260,829	1.97	18,228,007									-	-
2004	3,031,642	1.85	5,614,696									-	-
2005	2,984,298	1.77	5,281,252									-	-
2006	7,245,244	1.70	12,317,195									-	-
2007	(10,129,834)	1.65	(16,756,317)									-	-
2008	9,022,922	1.59	14,307,466									-	-
2009	37,476,922	1.54	57,623,501									-	-
2010	3,860,825	1.50	5,779,833									-	-
2011	1,487,477	1.45	2,161,024									-	-
2012	3,612,924	1.42	5,114,686									-	-
2013	(1,398,127)	1.38	(1,929,729)									-	-
2014	2,007,273	1.34	2,697,311									-	-
2015	(1,576,814)	1.31	(2,072,586)									-	-
2016	792,086	1.31	1,041,129									-	-
2017	1,984,324	1.28	2,544,020									-	-
2018	1,984,324	1.18	2,347,377	-	-	-	-	-	-	-	-	-	-
2019	1,422,607	1.17	1,669,549	-	-	-	-	-	-	-	-	-	-
2020	6,155,403	1.16	7,116,763	-	-	-	-	-	-	-	-	-	-
2021	1,301,392	1.12	1,459,442	-	-	-	-	-	-	-	-	-	-
2022	11,177,760	1.03	11,515,077	-	-	-	-	-	-	-	-	-	-
	$ 173,191,720		$400,174,736	7,893,804	8,044,455	8,496,405	10,569,988	10,765,590	10,982,719	10,967,335	11,071,672	11,676,528	10,791,386



Three-Year Minimum Reserve Balance <-------$24,434,664------->

Eight-Year Maximum Reserve Balance <---------- $78,791,969 ---------->