



City of Santa Barbara
Public Works Department

Memorandum

DATE: November 17, 2022

TO: Water Commission

FROM: Gabriele Cook, Water Resources Financial Officer

VIA: Joshua Haggmark, Water Resources Manager

SUBJECT: Wastewater and Water Fiscal Year 2024-2028 Capital Programs

RECOMMENDATION:

That the Water Commission receive a presentation on the Wastewater and Water Fiscal Year 2024-2028 Capital Programs and recommend that the Water Resources Capital Programs be forward to the Planning Commission and City Council.

DISCUSSION:

The City of Santa Barbara Capital Improvement Program (CIP) presents a forecast of the City's capital needs over a five-year period, incorporating the goals, policies, and long-range plans of each program into the CIP document. Capital projects are generally large-scale endeavors in terms of cost, size, and benefit to the community. The goal of the CIP is to provide a city-wide planning document for capital improvements, identify unmet capital needs, and prioritize projects for funding in the next two-year budget cycle. Toward that end, both funded and unfunded projects are included in the CIP, showing the level of pay-as-you-go funding, debt financing, and unmet funding needs for the City. The first two years of the CIP form the basis of the upcoming capital budget for each department, with the three remaining years providing a forecast of future projects. The CIP is reviewed, updated, and adopted every two years.

The underlying strategy of the CIP is to plan for major renewal and replacement of public infrastructure necessary for the safe and efficient provision of services, and to identify future funding needs for staffing, long-term facility maintenance and repair, and revenue needs. Both the Wastewater and Water Funds have completed long-range infrastructure plans. The El Estero Facility Plan, which identifies over \$94 million in capital improvements in the next 20 years, has been incorporated into the CIP document for those projects that fall within the planning period – Fiscal Years 2024 through 2028. Similarly, the Water Distribution Infrastructure Plan (WDIP), a 30-year planning document for investment in the water system's aging infrastructure looking out to 2050, has also been included in the CIP. The long-range

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infrastructure planning efforts along with this five-year CIP planning effort are used to inform both Water and Wastewater rates studies, which are typically updated on a three-year cycle.

The major capital programs for the Water and Wastewater Funds are listed below. Staff's presentation will highlight notable projects within these programs. Additional detail has been provided in the attachment of this report.

Wastewater:

- Braemar Lift Station Rehabilitation
- El Estero Water Resource Center Electrical Distribution Renewal
- El Estero Water Resource Center Maintenance Program
- El Estero Water Resource Center Strategic Plan Implementation
- Lift Station Maintenance Program
- Sanitary Sewer Capacity Improvement Program
- Sanitary Sewer Overflow Compliance Program
- Sea-Level Rise Adaptation Program – Wastewater Infrastructure

Water:

- Cater Reservoir Resiliency Project
- Cater Treatment Plant Maintenance Program
- Desalination Program
- Groundwater Program
- Pump Station Program
- Recycled Water Program
- Reservoir Program
- Sea-Level Rise Adaptation Program – Water Infrastructure
- Vic Trace Reservoir Replacement and Resiliency Project
- Water Main Replacement Program
- Water Meter Program

ATTACHMENT: Draft Water and Wastewater Capital Improvement Plans

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Public Works Wastewater

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Braemar Lift Station Rehabilitation	Water & Wastewater	Proposed	\$4,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$7,000,000
El Estero Water Resource Center Electrical Distribution Renewal	Water & Wastewater	Proposed	\$5,000,000	\$10,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$30,000,000
El Estero Water Resource Center Maintenance Program	Water & Wastewater		\$500,000	\$800,000	\$1,000,000	\$4,000,000	\$4,000,000	\$2,500,000	\$12,800,000
		Proposed	\$500,000	\$800,000	\$1,000,000	\$1,600,000	\$1,000,000	\$2,500,000	\$7,400,000
		Unfunded	\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
El Estero Water Resource Center Strategic Plan Implementation	Water & Wastewater	Proposed	\$500,000	\$550,000	\$550,000	\$550,000	\$50,000	\$50,000	\$2,250,000
Lift Station Maintenance Program	Water & Wastewater	Proposed	\$500,000	\$1,300,000	\$350,000	\$500,000	\$500,000	\$500,000	\$3,650,000
Sanitary Sewer Capacity Improvement Program	Water & Wastewater	Proposed	\$300,000	\$1,000,000	\$1,300,000	\$1,050,000	\$3,000,000	\$800,000	\$7,450,000
Sanitary Sewer Overflow Compliance Program	Water & Wastewater	Proposed	\$2,065,000	\$2,225,000	\$2,330,000	\$2,490,000	\$2,600,000	\$4,900,000	\$16,610,000
Sea-Level Rise Adaptation Program - Wastewater Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
SRF Loan			\$9,000,000	\$13,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$37,000,000
Unfunded			\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
Wastewater			\$3,915,000	\$5,925,000	\$5,580,000	\$6,240,000	\$7,200,000	\$8,800,000	\$37,660,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000

Braemar Lift Station Rehabilitation

Infrastructure: Water & Wastewater

Description:

This is the largest wastewater lift station in the City's collection system with a pumping capacity of 1,000 gallons per minute. The purpose of this project is to make major upgrades to the mechanical and electrical equipment of the lift station and harden the facility against flooding. This lift station last saw major upgrades in 1991 and the aging mechanical and electrical equipment is nearing the end of its useful life.



Specific Plans or Policies Relating to this Project:

The Project is confirmed consistent with the City's Sea Level Rise program through hydrologic modeling of the site. The Project will provide continued environmental sustainability and reliability to the Arroyo Burro area. The Project will improve energy efficiency for the largest lift station in the collection system through modernization of mechanical and electrical equipment combined with control modifications that meet current best practice.

Status:

The project is currently at 100% design, and staff will execute an agreement for a State Water Resources Control Board State Revolving Fund (SRF) loan to fund the project at the appropriate time.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr.</u> <u>Expense</u>	<u>Current Yr.</u> <u>Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project</u> <u>Total</u>
SRF Loan	<input checked="" type="checkbox"/>	0	500,000	4,000,000	3,000,000	0	0	0	0	\$7,000,000	\$7,500,000
Total		0	500,000	4,000,000	3,000,000	0	0	0	0	\$7,000,000	\$7,500,000

Drivers: Maintain Infrastructure

El Estero Water Resource Center Electrical Distribution Renewal

Infrastructure: Water & Wastewater

Description:

The purpose of this project is to replace the existing electrical distribution system at El Estero Water Resource Center. The project will replace the nearly 50 year old electrical distribution system, including the main electrical panel and all five substations. It will be sized to meet future electrical demands, maximize use of renewable energy, designed to provide redundancy, and improve overall reliability.



Specific Plans or Policies Relating to this Project:

Replacement of the electrical distribution system was identified as the top priority in the El Estero Facility Master Plan. El Estero operates under a federal National Pollutant Discharge Elimination System Permit. This Permit requires regular assessment, refurbishment, and improvement of equipment in order to maintain continued compliance. In addition, El Estero's electrical infrastructure cannot currently support the development of additional potential renewable energy projects. This infrastructure upgrade would allow for the development of solar, battery, and additional cogeneration power plants that would help the City maintain its 100 percent renewable electricity goal.

Status:

The project is currently at 100% design, and staff will execute an agreement for a State Water Resources Control Board State Revolving Fund (SRF) loan to fund the project at the appropriate time.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
SRF Loan	<input checked="" type="checkbox"/>	415,876	641,368	5,000,000	10,000,000	10,000,000	5,000,000	0	0	\$30,000,000	\$31,057,244
Total		415,876	641,368	5,000,000	10,000,000	10,000,000	5,000,000	0	0	\$30,000,000	\$31,057,244

Drivers: Maintain Infrastructure, Modernize City Facilities, Compliance with regulatory requirements

El Estero Water Resource Center Maintenance Program

Infrastructure: Water & Wastewater

Description:

An annual program of capital maintenance to replace electrical and mechanical equipment in a timely manner to keep the El Estero Water Resource Center operating at a fully functional level. This program includes items such as an ongoing program of equipment rehabilitation or replacement, continued integration of plant processes to the Supervisory Control and Data Acquisition program, ongoing program of pipe replacement throughout the plant, and hardscape improvements.

Upcoming projects include rehabilitation and reconfiguration of the chlorine contact chamber and updates to El Estero's thickening process, such as a new dissolved air flotation thickener/gravity thickener and control building.



Specific Plans or Policies Relating to this Project:

Maintaining electrical and mechanical equipment at the treatment plant is important to remain in compliance with the City's Federal National Pollutant Discharge Elimination System Permit, and to upgrade the plant to current regulatory and sustainable standards.

Status:

This project will be ongoing annually to design and construct smaller capital funded maintenance-related projects at the El Estero Water Resource Center.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Wastewater	<input checked="" type="checkbox"/>	1,293,299	4,981,737	500,000	800,000	1,000,000	1,600,000	1,000,000	2,500,000	\$7,400,000	\$13,675,036
Wastewater Unfunded	<input type="checkbox"/>	0	0	0	0	0	2,400,000	3,000,000	0	\$5,400,000	\$5,400,000
Total		1,293,299	4,981,737	500,000	800,000	1,000,000	4,000,000	4,000,000	2,500,000	\$12,800,000	\$19,075,036

Drivers: Maintain Infrastructure, On-going Maintenance

El Estero Water Resource Center Strategic Plan Implementation

Infrastructure: Water & Wastewater

Description:

A capital program providing planning for the betterment of major equipment and process components used to treat wastewater at the El Estero Water Resource Center. The project is renewed annually to study alternative process options, updates to previous master plan studies, and other studies that support moving forward with the development of a Capital Improvement Project. Prior year projects have included flow monitoring and sampling, Inflow and Infiltration (I&I) studies, and asset management.



Specific Plans or Policies Relating to this Project:

El Estero operates under a Federal National Pollutant Discharge Elimination System Permit. This Permit requires regular assessment, refurbishment, and improvement of unit process equipment to maintain continued compliance with applicable requirements.

In the next three years our APCD (Air Pollution Control District) permit will need to be revised and a system wide study will need to be completed to support the new regulations and standards that will be incorporated in the revised permit.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Wastewater	<input checked="" type="checkbox"/>	38,157	390,956	500,000	550,000	550,000	550,000	50,000	50,000	\$2,250,000	\$2,679,113
Total		38,157	390,956	500,000	550,000	550,000	550,000	50,000	50,000	\$2,250,000	\$2,679,113

Drivers: Maintain Infrastructure

Lift Station Maintenance Program

Infrastructure: Water & Wastewater

Description:

An annual program of capital maintenance to keep all of our wastewater lift stations fully operational. Timely replacement of motor control centers, pumps, motors, water level sensors and other electrical and mechanical equipment prevents lift station failures that otherwise could result in wastewater collection system overflows.



Specific Plans or Policies Relating to this Project:

Proper operation and maintenance is a requirement of the City's waste discharge permit.

Work includes rerouting of the Via Lucero Lift Station force main, wet well lining, manhole linings, and concrete repairs for El Camino De La Luz, La Colina, Linda, and Via Lucero lift stations.

Status:

This Program involves annual construction projects to be located at the City's sewer lift stations. Individual projects' scope of work and cost will vary on an ongoing basis.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Wastewater	<input checked="" type="checkbox"/>	78,949	1,070,213	500,000	1,300,000	350,000	500,000	500,000	500,000	\$3,650,000	\$4,799,162
Total		78,949	1,070,213	500,000	1,300,000	350,000	500,000	500,000	500,000	\$3,650,000	\$4,799,162

Drivers: Maintain Infrastructure, On-going Maintenance

Sanitary Sewer Capacity Improvement Program

Infrastructure: Water & Wastewater

Description:

The Sanitary Sewer Capacity Improvement Program is comprised of projects that will help relieve capacity restraints during wet weather events and prevent sewage spills. This level of program funding primarily supports the design and construction of projects that reduce constrictions or maintenance within the collection system during wet weather events.



Specific Plans or Policies Relating to this Project:

Spills from the City's wastewater collection system are prohibited by the Clean Water Act and the State Water Resources Control Board Waste Discharge Requirements. In order to respond to the City's Master Development Plan, the City's collection system must be brought up to date to handle the additional flows generated from the further development of the community. The City's Sewer System Management Plan sets forth the manner in which the municipal wastewater collection system will be managed to prevent sanitary sewer overflows and the priorities of each constraint.

In the coming years the three major projects that will be addressed in this program will be revisiting and updating the Inflow & Infiltration Study and implementing priority improvements by FY27.

Status:

Projects associated with this Program are actively managed on an ongoing basis.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Wastewater	<input checked="" type="checkbox"/>	29,316	595,684	300,000	1,000,000	1,300,000	1,050,000	3,000,000	800,000	\$7,450,000	\$8,075,000
Total		29,316	595,684	300,000	1,000,000	1,300,000	1,050,000	3,000,000	800,000	\$7,450,000	\$8,075,000

Drivers: Maintain Infrastructure, Compliance with regulatory requirements, On-going Maintenance

Sanitary Sewer Overflow Compliance Program

Infrastructure: Water & Wastewater

Description:

The Sanitary Sewer Overflow (SSO) Compliance Program is comprised of projects that will help prevent sewage spills. This level of program funding primarily supports structural rehabilitation of approximately 1% of the public sewage collection system mains and manholes.



Specific Plans or Policies Relating to this Project:

Spills from the City's wastewater collection system are prohibited by the Clean Water Act and the State Water Resources Control Board Waste Discharge Requirements. The City's Sewer System Management Plan sets forth the manner in which the municipal wastewater collection system will be managed to prevent sanitary sewer overflows.

Status:

Projects associated with this Program are actively managed on an ongoing basis.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr.</u> <u>Expense</u>	<u>Current Yr.</u> <u>Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project</u> <u>Total</u>
Wastewater	<input checked="" type="checkbox"/>	1,593,824	3,985,127	2,065,000	2,225,000	2,330,000	2,490,000	2,600,000	4,900,000	\$16,610,000	\$22,188,951
Total		1,593,824	3,985,127	2,065,000	2,225,000	2,330,000	2,490,000	2,600,000	4,900,000	\$16,610,000	\$22,188,951

Drivers: Maintain Infrastructure, Support the City's Plans, Compliance with regulatory requirements

Sea-Level Rise Adaptation Program - Wastewater Infrastructure

Infrastructure: Water & Wastewater

Description:

This program supports ongoing planning efforts that are needed to adapt the wastewater system to the impacts of sea-level rise. The program will assist with the Wastewater and Water System Sea-Level Rise Adaptation Options feasibility study (see project in Sustainability and Resilience Department) and implement the chosen actions resulting from that study. Relocation and/or flood proofing of the sewer trunk main and associated sewer collection infrastructure currently located south of Cabrillo Boulevard will be the first and highest priority project.



Specific Plans or Policies Relating to this Project:

Sea-Level Rise Adaptation Plan

Status:

Sea-Level Rise Adaptation Plan was approved in February 2021. Wastewater system specific adaptation study is fully funded by grants and currently underway.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Wastewater	<input checked="" type="checkbox"/>	835	299,165	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000	\$600,000
Total		835	299,165	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000	\$600,000

Drivers: Sea-Level Rise Adaptation

Public Works Water

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Cater Clear Well Reservoir Resiliency Project	Water & Wastewater	Proposed	\$13,166,272	\$13,166,272	\$0	\$0	\$0	\$0	\$26,332,544
Cater Treatment Plant Maintenance Program	Water & Wastewater	Proposed	\$367,500	\$536,000	\$405,000	\$426,000	\$447,000	\$3,470,000	\$5,651,500
Desalination Program	Water & Wastewater		\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$50,810,400	\$61,317,150
		Proposed	\$600,000	\$4,200,000	\$700,000	\$735,000	\$771,750	\$810,400	\$7,817,150
		Unfunded	\$0	\$3,500,000	\$0	\$0	\$0	\$50,000,000	\$53,500,000
Groundwater Program	Water & Wastewater	Proposed	\$210,000	\$460,500	\$231,500	\$593,100	\$255,300	\$2,268,000	\$4,018,400
Pump Station Program	Water & Wastewater	Proposed	\$210,000	\$220,500	\$1,231,500	\$553,000	\$255,300	\$268,000	\$2,738,300
Recycled Water Program	Water & Wastewater	Proposed	\$105,000	\$110,000	\$116,000	\$122,500	\$128,000	\$134,000	\$715,500
Reservoir Program	Water & Wastewater	Proposed	\$655,000	\$1,090,500	\$1,275,000	\$567,000	\$492,000	\$516,000	\$4,595,500
Sea-Level Rise Adaptation Program - Water Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
Vic Trace Reservoir Replacement and Resiliency Project	Water & Wastewater	Proposed	\$5,400,000	\$0	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$43,400,000
Water Main Replacement Program	Water & Wastewater	Proposed	\$13,833,000	\$11,275,500	\$9,956,000	\$10,455,000	\$10,976,000	\$11,525,000	\$68,020,500
Water Meter Program	Water & Wastewater	Proposed	\$165,000	\$171,000	\$178,000	\$116,000	\$122,500	\$128,000	\$880,500
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Grant			\$0	\$0	\$0	\$0	\$0	\$0	\$0
SRF Loan			\$18,566,272	\$13,166,272	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$69,732,544
Unfunded			\$0	\$3,500,000	\$0	\$0	\$0	\$50,000,000	\$53,500,000
Water			\$16,195,500	\$18,114,000	\$14,143,000	\$13,617,600	\$13,497,850	\$19,169,400	\$94,737,350
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894

Cater Clear Well Reservoir Resiliency Project

Infrastructure: Water & Wastewater

Description:

The Cater Water Treatment Plant (Cater) clear well serves as the finished water reservoir for the plant and is a key facility. The Cater Clear Well Reservoir Resiliency Project addresses seismic deficiencies within the reservoir, ensures chlorine contact time for regulatory compliance, and adds storage capacity and redundancy. The existing clear well/reservoir was constructed in 1962, and studies have identified deficiencies and cost-effective solutions to increase the resiliency for this critical facility. The project includes modifications to the interior of the reservoir and increasing storage by an additional 2.5 million gallons. Total project costs are currently estimated at \$27 million.



Specific Plans or Policies Relating to this Project:

This project was identified in the Water Distribution Infrastructure Plan.

Status:

The design phase of the Cater Reservoir Resiliency Project (Project) is nearing completion. Staff are preparing an application for a Drinking Water State Revolving Fund (DWSRF) loan for planning, design, and construction costs.

*Note: Design will be cash funded in FY2023 - FY2024 and reimbursed at a later time.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr.</u> <u>Expense</u>	<u>Current Yr.</u> <u>Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project</u> <u>Total</u>
SRF Loan	<input checked="" type="checkbox"/>	0	667,456	13,166,272	13,166,272	0	0	0	0	\$26,332,544	\$27,000,000
Total		0	667,456	13,166,272	13,166,272	0	0	0	0	\$26,332,544	\$27,000,000

Drivers: Maintain Infrastructure, Modernize City Facilities

Cater Treatment Plant Maintenance Program

Infrastructure: Water & Wastewater

Description:

Program addresses baseline capital improvements such as filter media replacement, equipment upgrades, and process improvements.



Specific Plans or Policies Relating to this Project:

Routine equipment rehabilitation is an important part of asset management at Cater.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	547,190	1,474,342	367,500	536,000	405,000	426,000	447,000	3,470,000	\$5,651,500	\$7,673,032
Total		547,190	1,474,342	367,500	536,000	405,000	426,000	447,000	3,470,000	\$5,651,500	\$7,673,032

Drivers: Modernize City Facilities, On-going Maintenance

Desalination Program

Infrastructure: Water & Wastewater

Description:

Program addresses capital improvements for the Desalination Plant and Conveyance System. Projects include expanding the Desalination Plant, upgrading the Desal Pump Station, hardening the Desal pump platform using FEMA grant funds (75%), and constructing the Desal administration building.



Specific Plans or Policies Relating to this Project:

Construction of the desalination conveyance system will improve supply reliability, water quality, and add resiliency. Additionally, the new conveyance system will support the Water Supply Agreement with the Montecito Water District.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	11,666,301	17,635,476	600,000	4,200,000	700,000	735,000	771,750	810,400	\$7,817,150	\$37,118,927
Grant	<input type="checkbox"/>	0	0	0	3,500,000	0	0	0	0	\$3,500,000	\$3,500,000
Water Unfunded	<input type="checkbox"/>	0	0	0	0	0	0	0	50,000,000	\$50,000,000	\$50,000,000
Total		11,666,301	17,635,476	600,000	7,700,000	700,000	735,000	771,750	50,810,400	\$61,317,150	\$90,618,927

Drivers: Modernize City Facilities, Support the City's Plans, Revenue-generating possibilities

Groundwater Program

Infrastructure: Water & Wastewater

Description:

Program addresses capital improvements for the City's groundwater system, which is an important water supply. Specific projects include well cleaning, pump and motor upgrades, well rehabilitation, and consultation for groundwater program projects and management.



Specific Plans or Policies Relating to this Project:

Groundwater is part of the City's adopted Long-Term Water Supply Plan and Water Supply portfolio. It is an important water source, especially during times of drought when surface water supplies are dwindling.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	218,020	412,304	210,000	460,500	231,500	593,100	255,300	2,268,000	\$4,018,400	\$4,648,724
Total		218,020	412,304	210,000	460,500	231,500	593,100	255,300	2,268,000	\$4,018,400	\$4,648,724

Drivers: Maintain Infrastructure, Modernize City Facilities

Pump Station Program

Infrastructure: Water & Wastewater

Description:

Program addresses baseline capital improvements for the City's Water Distribution Pump Stations. Major work includes replacing large electrical, mechanical, and control components at various pump stations.



Specific Plans or Policies Relating to this Project:

The City's water pump stations are critical infrastructure that require routine rehabilitation and maintenance.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	24,472	323,864	210,000	220,500	1,231,500	553,000	255,300	268,000	\$2,738,300	\$3,086,636
Total		24,472	323,864	210,000	220,500	1,231,500	553,000	255,300	268,000	\$2,738,300	\$3,086,636

Drivers: Maintain Infrastructure, Modernize City Facilities, On-going Maintenance

Recycled Water Program

Infrastructure: Water & Wastewater

Description:

Program addresses capital improvements for the City's recycled water system, which is an important water supply for the City. Specific projects include upgrades to the Recycled Water Treatment Plant, pump stations, recycled water reservoirs, and distribution system.



Specific Plans or Policies Relating to this Project:

The Recycled Water Program is an important part of the City's adopted Long-Term Water Supply Plan.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	482,664	3,315,806	105,000	110,000	116,000	122,500	128,000	134,000	\$715,500	\$4,513,970
Total		482,664	3,315,806	105,000	110,000	116,000	122,500	128,000	134,000	\$715,500	\$4,513,970

Drivers: Maintain Infrastructure, Modernize City Facilities, On-going Maintenance

Reservoir Program

Infrastructure: Water & Wastewater

Description:

Program addresses capital improvements for the Water Distribution potable storage reservoirs and Gibraltar reservoir. Major efforts include consolidating storage in the Water Distribution System and replacing control systems that supply water to and from the reservoirs.



Specific Plans or Policies Relating to this Project:

Maintenance of the City's Distribution Reservoirs is necessary to ensure that the City has safe drinking water supplies in compliance with Federal and State drinking water standards.

Status:

Annual, ongoing program.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	156,409	666,161	655,000	1,090,500	1,275,000	567,000	492,000	516,000	\$4,595,500	\$5,418,070
Total		156,409	666,161	655,000	1,090,500	1,275,000	567,000	492,000	516,000	\$4,595,500	\$5,418,070

Drivers: Maintain Infrastructure, Modernize City Facilities, On-going Maintenance

Sea-Level Rise Adaptation Program - Water Infrastructure

Infrastructure: Water & Wastewater

Description:

This program supports ongoing planning efforts that are needed to adapt the water system to the impacts of sea-level rise. The study will identify at triggers for action and potential mid and long-term adaptation options for the water system, including but not limited to the Charles E. Meyer Desalination plant, Storage Unit 1 groundwater wells, the Ortega Groundwater Treatment Plant, and distribution piping and appurtenances located in low lying areas.



Specific Plans or Policies Relating to this Project:

Sea-Level Rise Adaptation Plan

Status:

The Draft Sea-Level Rise Adaptation Plan was adopted by City Council in month 2021. The Adaptation Plan acknowledged impacts to water infrastructure and additional study is needed to identify triggers and actions for both mid and long-term adaptation options.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr.</u> <u>Expense</u>	<u>Current Yr.</u> <u>Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project</u> <u>Total</u>
Water	<input checked="" type="checkbox"/>	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000	\$350,000
Total		0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000	\$350,000

Drivers: Sea-Level Rise Adaptation

Vic Trace Reservoir Replacement and Resiliency Project

Infrastructure: Water & Wastewater

Description:

Vic Trace reservoir is the City's second largest reservoir and serves as a ten million gallon distribution hub for the downtown and West side area. The reservoir was originally constructed in 1952. Through condition assessment, careful study, and analysis the reservoir has been prioritized for replacement. The reservoirs elevation, size, and location make it a key asset for the City.



Specific Plans or Policies Relating to this Project:

This project was identified in the Water Distribution Infrastructure Plan.

Status:

Environmental review will continue this year followed by standard City design and construction processes. Staff will prepare an application for Council approval for a Drinking Water State Revolving Fund (DWSRF) loan for planning, design, and construction costs.

*Note: Design will be cash funded in FY2024 and reimbursed at a later time.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr.</u> <u>Expense</u>	<u>Current Yr.</u> <u>Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project</u> <u>Total</u>
SRF Loan	<input checked="" type="checkbox"/>	0	0	5,400,000	0	12,700,000	12,700,000	12,600,000	0	\$43,400,000	\$43,400,000
Total		0	0	5,400,000	0	12,700,000	12,700,000	12,600,000	0	\$43,400,000	\$43,400,000

Drivers: Modernize City Facilities

Water Main Replacement Program

Infrastructure: Water & Wastewater

Description:

Program addresses capital improvements for the City's approximately 307 miles of water mains and related appurtenances, such as valves, fire hydrants, and pressure reducing stations. City Council has set a goal of annually replacing approximately 2%, or 6 miles, of the City's water mains.



Specific Plans or Policies Relating to this Project:

Council's goal is to annually replace 2% of the distribution system infrastructure.

Status:

Annual, ongoing program to replace aging water mains.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	<input checked="" type="checkbox"/>	4,173,561	27,200,999	13,833,000	11,275,500	9,956,000	10,455,000	10,976,000	11,525,000	\$68,020,500	\$99,395,060
Total		4,173,561	27,200,999	13,833,000	11,275,500	9,956,000	10,455,000	10,976,000	11,525,000	\$68,020,500	\$99,395,060

Drivers: Maintain Infrastructure, Modernize City Facilities, On-going Maintenance

Water Meter Program

Infrastructure: Water & Wastewater

Description:

Program addresses improvements for the City's water metering system. Specific projects include an Advance Metering Infrastructure (AMI) Project. Baseline capital work includes ongoing replacement of the City's water meters and associated improvements, including replacing meter boxes and related infrastructure as needed.



Specific Plans or Policies Relating to this Project:

Accurate measurement of customer water use is the foundation for sustaining a trust and high regard of our customers and a best management practice for operation of a water system. Ongoing maintenance and replacement of water meters will ensure water measurement accuracy, which will provide customers with an accurate accounting and billing of water use, and will enable the City to accurately account for water sales.

Status:

The City is scheduled to complete AMI implementation by fiscal year 2024.

Capital Costs:

<u>Funding Sources</u>	<u>Proposed</u>	<u>Prior Yr. Expense</u>	<u>Current Yr. Budget</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>Future Needs</u>	<u>Total</u>	<u>Project Total</u>
Water	☑	1,919,320	8,375,746	165,000	171,000	178,000	116,000	122,500	128,000	\$880,500	\$11,175,566
Grant	☑	0	1,250,000	0	0	0	0	0	0	\$0	\$1,250,000
Total		1,919,320	9,625,746	165,000	171,000	178,000	116,000	122,500	128,000	\$880,500	\$12,425,566

Drivers: Modernize City Facilities, Revenue-generating possibilities



PUBLIC WORKS DEPARTMENT
WATER RESOURCES DIVISION

WATER AND WASTEWATER 5-YEAR CAPITAL IMPROVEMENT PROGRAMS FOR FISCAL YEARS 2024 - 2028

Water Commission
November 17, 2022

Capital Improvement Plan (CIP)

- CIP
 - Forecast of the City's capital needs over the next five years
 - *First two years are incorporated into budget appropriations*
 - Prioritize projects for funding and identify unmet capital needs
 - Identify potential funding sources: pay-as-you-go capital, debt financing (i.e. SRF loans), or grants
 - Incorporate Water and Wastewater infrastructure plans
 - *El Estero Facility Plan*
 - *Water Distribution Infrastructure Plan*

CIP Adoption Schedule



Baseline Capital

- Small Capital – outside major capital projects
- Addresses unplanned replacement needs
- Covers occasional SCADA, process, and equipment upgrades
- Bridges the gap between operations and large capital project budgets

WASTEWATER CIP

Wastewater System Capital Programs

- Braemar Lift Station Rehabilitation
- El Estero Water Resource Center (EEWRC) Strategic Plan Implementation
- EEWRC Electrical Distribution Renewal
- EEWRC Plant Maintenance Program
- Lift Station Maintenance Program
- Sanitary Sewer Capacity Improvement Program
- Sanitary Sewer Overflow Compliance Program
- Sea Level Rise Adaptation Program

Proposed FY 24-28 Wastewater CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Braemar Lift Station Rehabilitation	Water & Wastewater	Proposed	\$4,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$7,000,000
El Estero Water Resource Center Electrical Distribution Renewal	Water & Wastewater	Proposed	\$5,000,000	\$10,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$30,000,000
El Estero Water Resource Center Maintenance Program	Water & Wastewater		\$500,000	\$800,000	\$1,000,000	\$4,000,000	\$4,000,000	\$2,500,000	\$12,800,000
		Proposed	\$500,000	\$800,000	\$1,000,000	\$1,600,000	\$1,000,000	\$2,500,000	\$7,400,000
		Unfunded	\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
El Estero Water Resource Center Strategic Plan Implementation	Water & Wastewater	Proposed	\$500,000	\$550,000	\$550,000	\$550,000	\$50,000	\$50,000	\$2,250,000
Lift Station Maintenance Program	Water & Wastewater	Proposed	\$500,000	\$1,300,000	\$350,000	\$500,000	\$500,000	\$500,000	\$3,650,000
Sanitary Sewer Capacity Improvement Program	Water & Wastewater	Proposed	\$300,000	\$1,000,000	\$1,300,000	\$1,050,000	\$3,000,000	\$800,000	\$7,450,000
Sanitary Sewer Overflow Compliance Program	Water & Wastewater	Proposed	\$2,065,000	\$2,225,000	\$2,330,000	\$2,490,000	\$2,600,000	\$4,900,000	\$16,610,000
Sea-Level Rise Adaptation Program - Wastewater Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
SRF Loan			\$9,000,000	\$13,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$37,000,000
Unfunded			\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
Wastewater			\$3,915,000	\$5,925,000	\$5,580,000	\$6,240,000	\$7,200,000	\$8,800,000	\$37,660,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000

Braemar Lift Station Rehabilitation

- Project will make major upgrades to the mechanical and electrical equipment and harden the facility against flooding
- Project SRF loan funded (~\$7.5M)

FY 2024 Budget

\$4,000,000

FY 2025 Budget

\$3,000,000



EEWRC Electrical Distribution Renewal

- Project will replace the existing electrical distribution system, including the main electrical panel and all five substations
- Project will allow for the development of solar, battery, and additional cogeneration power plants that would help the City meet its 100 % renewable electricity goals
- Project SRF loan funded (~\$30M)

FY 2024 Budget

\$5,000,000

FY 2025 Budget

\$10,000,000



EEWRC Plant Maintenance Program

- Ongoing program of equipment rehabilitation or replacement
- Maintain compliance with the City's federal National Pollutant Discharge Elimination System permit

FY 2024 Budget

\$500,000

FY 2025 Budget

\$800,000



EEWRC Strategic Plan Implementation

- Planning for the renewal, replacement, and betterment of EEWRC process components and major equipment
- Study alternative process options, updates to previous master plan studies, and other studies that support the development of CIP

FY 2024 Budget

\$500,000

FY 2025 Budget

\$550,000



Lift Station Maintenance Program

- An annual program of capital maintenance to keep wastewater lift stations in fully operational status
- Via Lucero force main
 - FY24 design
 - FY25 construction

FY 2024 Budget

\$500,000

FY 2025 Budget

\$1,300,000



Sanitary Sewer Capacity Improvement Program

- Addresses capacity constraints during wet weather events and prevent sewage spills
- Bring collection system up to date to meet increasing wastewater flows as a result of development

FY 2024 Budget

\$300,000

FY 2025 Budget

\$1,000,000



SSO Compliance Program

- This program is comprised of projects that will help prevent sewage spills
- Funding primarily supports structural rehabilitation of approximately 1% of the public sewage collection system mains and manholes

FY 2024 Budget

\$2,065,000

FY 2025 Budget

\$2,225,000



Sea-Level Rise Adaptation Program

- Funds a feasibility study and the implementation of actions from that study
- Relocation and/or flood-proofing of wastewater infrastructure south of Cabrillo is the highest priority

FY 2024 Budget

\$50,000

FY 2025 Budget

\$50,000



Proposed FY 24-28 Wastewater CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Braemar Lift Station Rehabilitation	Water & Wastewater	Proposed	\$4,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$7,000,000
El Estero Water Resource Center Electrical Distribution Renewal	Water & Wastewater	Proposed	\$5,000,000	\$10,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$30,000,000
El Estero Water Resource Center Maintenance Program	Water & Wastewater		\$500,000	\$800,000	\$1,000,000	\$4,000,000	\$4,000,000	\$2,500,000	\$12,800,000
		Proposed	\$500,000	\$800,000	\$1,000,000	\$1,600,000	\$1,000,000	\$2,500,000	\$7,400,000
		Unfunded	\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
El Estero Water Resource Center Strategic Plan Implementation	Water & Wastewater	Proposed	\$500,000	\$550,000	\$550,000	\$550,000	\$50,000	\$50,000	\$2,250,000
Lift Station Maintenance Program	Water & Wastewater	Proposed	\$500,000	\$1,300,000	\$350,000	\$500,000	\$500,000	\$500,000	\$3,650,000
Sanitary Sewer Capacity Improvement Program	Water & Wastewater	Proposed	\$300,000	\$1,000,000	\$1,300,000	\$1,050,000	\$3,000,000	\$800,000	\$7,450,000
Sanitary Sewer Overflow Compliance Program	Water & Wastewater	Proposed	\$2,065,000	\$2,225,000	\$2,330,000	\$2,490,000	\$2,600,000	\$4,900,000	\$16,610,000
Sea-Level Rise Adaptation Program - Wastewater Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
SRF Loan			\$9,000,000	\$13,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$37,000,000
Unfunded			\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
Wastewater			\$3,915,000	\$5,925,000	\$5,580,000	\$6,240,000	\$7,200,000	\$8,800,000	\$37,660,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000

Proposed FY 24-28 Wastewater CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Braemar Lift Station Rehabilitation	Water & Wastewater	Proposed	\$4,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$7,000,000
El Estero Water Resource Center Electrical Distribution Renewal	Water & Wastewater	Proposed	\$5,000,000	\$10,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$30,000,000
El Estero Water Resource Center Maintenance Program	Water & Wastewater		\$500,000	\$800,000	\$1,000,000	\$4,000,000	\$4,000,000	\$2,500,000	\$12,800,000
		Proposed	\$500,000	\$800,000	\$1,000,000	\$1,600,000	\$1,000,000	\$2,500,000	\$7,400,000
		Unfunded	\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
El Estero Water Resource Center Strategic Plan Implementation	Water & Wastewater	Proposed	\$500,000	\$550,000	\$550,000	\$550,000	\$50,000	\$50,000	\$2,250,000
Lift Station Maintenance Program	Water & Wastewater	Proposed	\$500,000	\$1,300,000	\$350,000	\$500,000	\$500,000	\$500,000	\$3,650,000
Sanitary Sewer Capacity Improvement Program	Water & Wastewater	Proposed	\$300,000	\$1,000,000	\$1,300,000	\$1,050,000	\$3,000,000	\$800,000	\$7,450,000
Sanitary Sewer Overflow Compliance Program	Water & Wastewater	Proposed	\$2,065,000	\$2,225,000	\$2,330,000	\$2,490,000	\$2,600,000	\$4,900,000	\$16,610,000
Sea-Level Rise Adaptation Program - Wastewater Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
SRF Loan			\$9,000,000	\$13,000,000	\$10,000,000	\$5,000,000	\$0	\$0	\$37,000,000
Unfunded			\$0	\$0	\$0	\$2,400,000	\$3,000,000	\$0	\$5,400,000
Wastewater			\$3,915,000	\$5,925,000	\$5,580,000	\$6,240,000	\$7,200,000	\$8,800,000	\$37,660,000
TOTAL:			\$12,915,000	\$18,925,000	\$15,580,000	\$13,640,000	\$10,200,000	\$8,800,000	\$80,060,000

WATER CIP

Water System Capital Programs

- Cater Reservoir Resiliency
- Cater Treatment Plant Maintenance
- Desalination
- Groundwater
- Pump Station
- Recycled Water
- Reservoir
- Sea-Level Rise Adaptation
- Vic Trace Reservoir Replacement & Resiliency
- Water Main Replacement
- Water Meter



Proposed FY 24-28 Water CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Cater Reservoir Resiliency Project	Water & Wastewater	Proposed	\$13,166,272	\$13,166,272	\$0	\$0	\$0	\$0	\$26,332,544
Cater Treatment Plant Maintenance Program	Water & Wastewater	Proposed	\$367,500	\$536,000	\$405,000	\$426,000	\$447,000	\$3,470,000	\$5,651,500
Desalination Program	Water & Wastewater		\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$50,810,400	\$61,317,150
		Proposed	\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$810,400	\$11,317,150
		Unfunded	\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Groundwater Program	Water & Wastewater	Proposed	\$210,000	\$460,500	\$231,500	\$593,100	\$255,300	\$2,268,000	\$4,018,400
Pump Station Program	Water & Wastewater	Proposed	\$210,000	\$220,500	\$1,231,500	\$553,000	\$255,300	\$268,000	\$2,738,300
Recycled Water Program	Water & Wastewater	Proposed	\$105,000	\$110,000	\$116,000	\$122,500	\$128,000	\$134,000	\$715,500
Reservoir Program	Water & Wastewater	Proposed	\$655,000	\$1,090,500	\$1,275,000	\$567,000	\$492,000	\$516,000	\$4,595,500
Sea-Level Rise Adaptation Program - Water Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
Vic Trace Reservoir Replacement and Resiliency Project	Water & Wastewater	Proposed	\$5,400,000	\$0	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$43,400,000
Water Main Replacement Program	Water & Wastewater	Proposed	\$13,833,000	\$11,275,500	\$9,956,000	\$10,455,000	\$10,976,000	\$11,525,000	\$68,020,500
Water Meter Program	Water & Wastewater	Proposed	\$165,000	\$171,000	\$178,000	\$116,000	\$122,500	\$128,000	\$880,500
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Grant			\$0	\$3,500,000	\$0	\$0	\$0	\$0	\$3,500,000
SRF Loan			\$18,566,272	\$13,166,272	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$69,732,544
Unfunded			\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Water			\$16,195,500	\$18,114,000	\$14,143,000	\$13,617,600	\$13,497,850	\$19,169,400	\$94,737,350
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894

Cater Reservoir Resiliency Project

- This project will add a second finished water reservoir and provide seismic upgrades to the existing reservoir
- Pursuing SRF loan funding (~\$27M)

FY 2024 Budget

\$13,166,272

FY 2025 Budget

\$13,166,272



Cater Treatment Plant Maintenance Program

- Ongoing program for equipment rehabilitation or replacement
- FY25 Cater Master Plan

FY 2024 Budget

\$367,500

FY 2025 Budget

\$536,000



Desalination Program

- \$600k annually for capital maintenance
- FY25 includes:
 - Hardening of the Desal pump platform using FEMA grants funds (75%)
 - Construction of the Desal administration building (\$3M)

FY 2024 Budget

\$600,000

FY 2025 Budget

\$7,700,000



Groundwater Program

- Addresses the capital maintenance and improvements of the City's groundwater system, including the Ortega Groundwater Treatment Plant

FY 2024 Budget

\$210,000

FY 2025 Budget

\$460,500



Pump Station Program

- This program provides for regular maintenance of the distribution pump stations
- Major work includes replacing large electrical, mechanical, and control components of the pump stations

FY 2024 Budget

\$210,000

FY 2025 Budget

\$220,500



Recycled Water Program

- Funds ongoing renewal and replacement of the recycled water treatment plant and distribution system

FY 2024 Budget

\$105,000

FY 2025 Budget

\$110,000



Reservoir Program

- Potable water reservoir and Gibraltar Reservoir improvements
- FY24-25 includes Gibraltar caretaker residence repair

FY 2024 Budget

\$655,000

FY 2025 Budget

\$1,090,500



Sea-Level Rise Adaptation Program

- Funds feasibility study
- Study will identify triggers for mid- and long-term adaption of water system including
 - Desal Plant
 - Storage Unit 1 groundwater wells
 - Ortega Groundwater Treatment Plant

FY 2024 Budget

\$50,000

FY 2025 Budget

\$50,000



Vic Trace Reservoir Replacement and Resiliency

- Design of the Vic Trace Reservoir replacement will begin in FY24
- Construction anticipated to begin in FY27
- Pursuing funding from SRF Loan (~\$43M)

FY 2024 Budget

\$5,400,000

FY 2025 Budget

\$0



Water Main Replacement Program

- City's Largest Asset
 - 300 miles of water main
- Supports City Council's goal to replace 2% annually

FY 2024 Budget

\$13,833,000

FY 2025 Budget

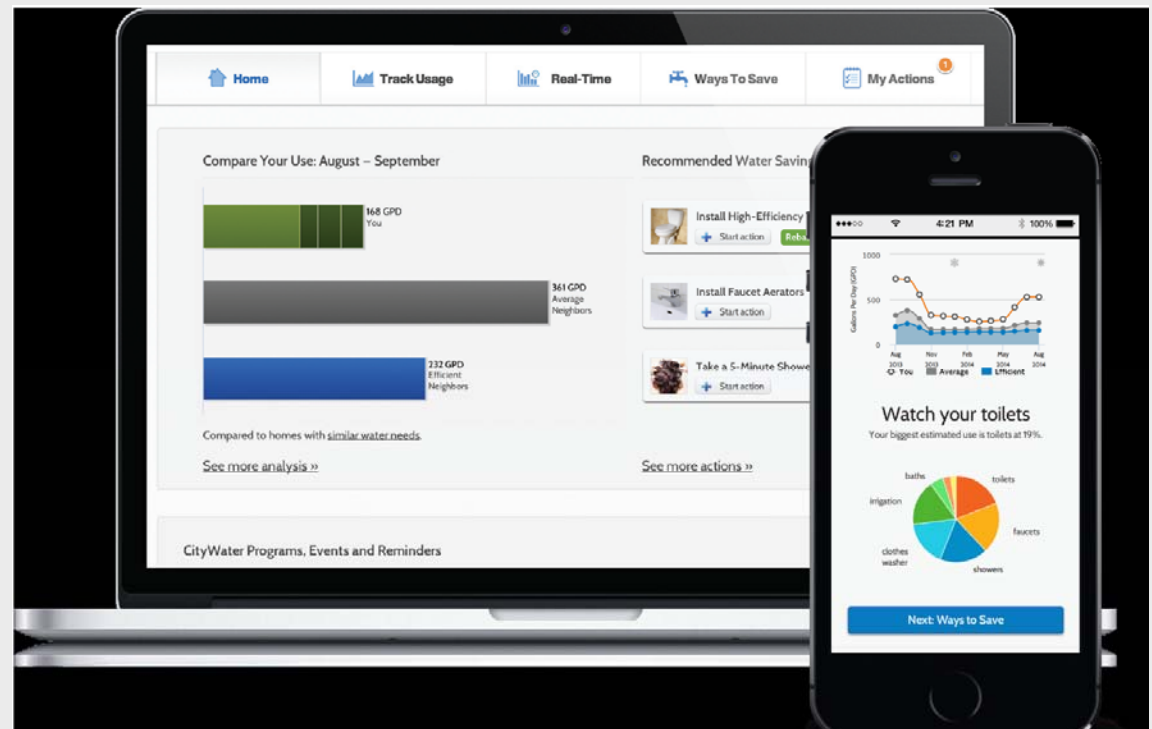
\$11,275,500



Water Meter Program

- Includes ongoing Advanced Metering Infrastructure (AMI) contracts
- Ongoing replacement of meters and related infrastructure needs

FY 2024 Budget	FY 2025 Budget
\$165,000	\$171,000



Proposed FY 24-28 Water CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Cater Reservoir Resiliency Project	Water & Wastewater	Proposed	\$13,166,272	\$13,166,272	\$0	\$0	\$0	\$0	\$26,332,544
Cater Treatment Plant Maintenance Program	Water & Wastewater	Proposed	\$367,500	\$536,000	\$405,000	\$426,000	\$447,000	\$3,470,000	\$5,651,500
Desalination Program	Water & Wastewater		\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$50,810,400	\$61,317,150
		Proposed	\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$810,400	\$11,317,150
		Unfunded	\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Groundwater Program	Water & Wastewater	Proposed	\$210,000	\$460,500	\$231,500	\$593,100	\$255,300	\$2,268,000	\$4,018,400
Pump Station Program	Water & Wastewater	Proposed	\$210,000	\$220,500	\$1,231,500	\$553,000	\$255,300	\$268,000	\$2,738,300
Recycled Water Program	Water & Wastewater	Proposed	\$105,000	\$110,000	\$116,000	\$122,500	\$128,000	\$134,000	\$715,500
Reservoir Program	Water & Wastewater	Proposed	\$655,000	\$1,090,500	\$1,275,000	\$567,000	\$492,000	\$516,000	\$4,595,500
Sea-Level Rise Adaptation Program - Water Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
Vic Trace Reservoir Replacement and Resiliency Project	Water & Wastewater	Proposed	\$5,400,000	\$0	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$43,400,000
Water Main Replacement Program	Water & Wastewater	Proposed	\$13,833,000	\$11,275,500	\$9,956,000	\$10,455,000	\$10,976,000	\$11,525,000	\$68,020,500
Water Meter Program	Water & Wastewater	Proposed	\$165,000	\$171,000	\$178,000	\$116,000	\$122,500	\$128,000	\$880,500
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Grant			\$0	\$3,500,000	\$0	\$0	\$0	\$0	\$3,500,000
SRF Loan			\$18,566,272	\$13,166,272	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$69,732,544
Unfunded			\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Water			\$16,195,500	\$18,114,000	\$14,143,000	\$13,617,600	\$13,497,850	\$19,169,400	\$94,737,350
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894

Proposed FY 24-28 Water CIP Budget

Project Description	Infrastructure		2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Cater Reservoir Resiliency Project	Water & Wastewater	Proposed	\$13,166,272	\$13,166,272	\$0	\$0	\$0	\$0	\$26,332,544
Cater Treatment Plant Maintenance Program	Water & Wastewater	Proposed	\$367,500	\$536,000	\$405,000	\$426,000	\$447,000	\$3,470,000	\$5,651,500
Desalination Program	Water & Wastewater		\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$50,810,400	\$61,317,150
		Proposed	\$600,000	\$7,700,000	\$700,000	\$735,000	\$771,750	\$810,400	\$11,317,150
		Unfunded	\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Groundwater Program	Water & Wastewater	Proposed	\$210,000	\$460,500	\$231,500	\$593,100	\$255,300	\$2,268,000	\$4,018,400
Pump Station Program	Water & Wastewater	Proposed	\$210,000	\$220,500	\$1,231,500	\$553,000	\$255,300	\$268,000	\$2,738,300
Recycled Water Program	Water & Wastewater	Proposed	\$105,000	\$110,000	\$116,000	\$122,500	\$128,000	\$134,000	\$715,500
Reservoir Program	Water & Wastewater	Proposed	\$655,000	\$1,090,500	\$1,275,000	\$567,000	\$492,000	\$516,000	\$4,595,500
Sea-Level Rise Adaptation Program - Water Infrastructure	Water & Wastewater	Proposed	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
Vic Trace Reservoir Replacement and Resiliency Project	Water & Wastewater	Proposed	\$5,400,000	\$0	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$43,400,000
Water Main Replacement Program	Water & Wastewater	Proposed	\$13,833,000	\$11,275,500	\$9,956,000	\$10,455,000	\$10,976,000	\$11,525,000	\$68,020,500
Water Meter Program	Water & Wastewater	Proposed	\$165,000	\$171,000	\$178,000	\$116,000	\$122,500	\$128,000	\$880,500
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894
Source of Funds - Totals			2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Future Needs	Total
Grant			\$0	\$3,500,000	\$0	\$0	\$0	\$0	\$3,500,000
SRF Loan			\$18,566,272	\$13,166,272	\$12,700,000	\$12,700,000	\$12,600,000	\$0	\$69,732,544
Unfunded			\$0	\$0	\$0	\$0	\$0	\$50,000,000	\$50,000,000
Water			\$16,195,500	\$18,114,000	\$14,143,000	\$13,617,600	\$13,497,850	\$19,169,400	\$94,737,350
TOTAL:			\$34,761,772	\$34,780,272	\$26,843,000	\$26,317,600	\$26,097,850	\$69,169,400	\$217,969,894

Recommendation

That the Water Commission receive a presentation on the Wastewater and Water Fiscal Year 2024-2028 Capital Programs and recommend that the Water Resources Capital Programs be moved to the Planning Commission and City Council.

Questions?