

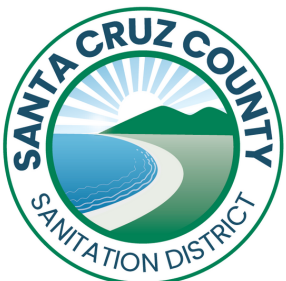
2024

SANTA CRUZ COUNTY SANITATION DISTRICT

CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS 2024-2028

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SANTA CRUZ COUNTY SANITATION DISTRICT

CAPITAL IMPROVEMENT PROGRAM



FISCAL YEARS 2024-2028

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SANTA CRUZ COUNTY SANITATION DISTRICT



INTRODUCTION



CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**

INTRODUCTION

The purpose of this Capital Improvement Program is to identify and prioritize needs and project costs, under the direction of the Santa Cruz County Sanitation District's Board of Directors, for planned improvements to the infrastructure that will serve the District's ratepayers in an efficient and cost-effective manner throughout the next four-plus years of growth and change.

Worn out and antiquated facilities must be repaired or replaced in a timely manner in order to protect public health and safety. This report will help identify and describe specific sanitary sewer projects for pump stations, transmission lines and collector lines which are planned to take place over the next four-plus years, along with their estimated project costs. It will help prevent sudden shifts in the debt service requirements, inform the Board and the public about future projects, provide coordination with other County projects, and plan budget allocations for the identified capital needs. This report may also aid the District in obtaining grants and may improve the District's credit rating.



D.A. Porath Facility overview

FACTS ABOUT UNDERGROUND CONSTRUCTION

Underground construction is complex and costly compared to other types of construction. According to the U. S. National Committee on Tunneling Technology, Subcommittee on Management of Major Underground Construction Projects, in their executive presentation, "Recommendations for Better Management of Major Underground Construction Projects," they state that "Among today's most complicated and costly large projects are those being built underground...because geotechnical considerations assume greater importance than in other types of construction, and because the nature of underground work requires special equipment, techniques, and skills."¹ Because of this, in 1976, three Federal agencies requested that the National Research Council obtain a set of guidelines that could be used to address the problems of underground construction.

Underground construction is quite unique among the different types of construction projects, mainly due to the fact that you cannot see, ahead of time, the exact conditions that you will be encountering during the construction of the project. You can't physically see if there are underground waterways, huge rocks, underground utilities, buried structures, or soft or hard soil conditions.

Prior to construction, various measures are typically used to investigate what may be hidden underground; however, it is nearly impossible and not cost effective to test every square inch of the project area, thus large rocks, underground streams, undocumented utilities, old septic tanks, tree roots, old contaminated soil, gases and other noxious waste, unsuitable soils, and other surprises often show up and lead to contract change orders and increased costs to deal with the obstacle or condition. From the time of testing to the time of actual construction, soil conditions may change appreciably². Thus, economic risk, geotechnical uncertainties, and complex technologies are inherent in underground projects.³

In addition, there is high wear and tear on equipment when having to bore or cut through rock, especially rock with high uniaxial compressive strength. This is illustrated in one project where the average strength of the rock was about 120 Megapascals and the average penetration rate was less than 1 meter/hour, sometimes going as slow as 0.36 meter/hour.³ The average cutter life was far less (37.3 cubic meters⁴/disc) than desired (100 cubic meters/disc) and cutter replacement led to a long downtime, contributing to higher costs and delays.

Even when an underground construction project is well-planned at its inception, conditions and requirements change during execution. The key to a project's ultimate success is the identification and management of risks during construction.⁵

1. U. S. National Committee on Tunneling Technology, Subcommittee on Management of Major Underground Construction Projects, in their executive presentation, "Recommendations for Better Management of Major Underground Construction Projects"

2. Problems of Underground Construction in a Dense Urban Setting.

3. Rock Mechanics in Underground Construction, at the 2006 International Society of Rock Mechanics* International Symposium

4. Contracting Practices for the Underground Construction of the Superconducting Super Collider.

5. Problems in Underground Construction: Lessons learned and Methods Developed for Success (M. Petrov and P. Galloway, 2004)

BOARD OF DIRECTORS

The Santa Cruz County Sanitation District Board of Directors is comprised of three elected officials plus alternates:

The County Supervisor from the Branciforte - Soquel (1st) District, plus an alternate;

The County Supervisor from the Aptos (2nd) District, plus an alternate;

A member of the Capitola City Council, plus an alternate.

The Chairperson of the Board is a member of the Capitola City Council. The Vice-Chairperson is the 1st District representative during even-numbered years and the 2nd District representative during odd-numbered years.

BOARD OF DIRECTORS

Chairperson Kristen Brown, *Representative from the City of Capitola*



Director Manu Koenig, *1st District Supervisor*



Director Zach Friend, *2nd District Supervisor*



DISTRICT PERSONNEL

Current District personnel include the following:

| | |
|--|------------------------------|
| District Engineer | Matt Machado |
| Assistant District Engineer | Vacant |
| Assistant Director of Administrative Services | Kim Moore |
| District Counsel | Michael De Smidt |
| Sanitation Engineer | Ashleigh Trujillo |
| Water/Wastewater Operations Manager | Beatriz Barranco |
| Environmental Programs Coordinator | Monica Tomlinson |
| Construction Managers | Carisa Duran and Katie Beach |
| District Secretary | Terra Prestwich |
| Deputy Secretary (part-time) | Andrea Gifford |



SANTA CRUZ COUNTY SANITATION DISTRICT



HISTORY & PURPOSE



CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS
2024-2028

HISTORY AND PURPOSE OF THE DISTRICT

The Santa Cruz County Sanitation District (District) was formed as an autonomous district under the State of California, on May 9, 1973, and encompasses the community of Live Oak, the City of Capitola and portions of the communities of Aptos and Soquel. It previously consisted of three separate districts: Aptos Sanitation District, Capitola Sanitation District, and East Cliff Sanitation District. At the time of formation, it was one of the largest of its type in the State and had the highest per capita assessed valuation of any Sanitation District.

The objectives of the formation were to:

- Merge resources to pay for improvements in order to be in compliance with federal orders to clean up the quality of wastewater discharged into the Pacific Ocean.
- Shut down individual sewage treatment facilities and build a sewage transmission line, from Aptos to the City of Santa Cruz's treatment facility at Neary Lagoon in the City of Santa Cruz.
- Join with the City of Santa Cruz in tripling the capacity of the City treatment facility and build a new outfall line into the Pacific Ocean.
- Secure a favorable bond rate (the larger District allowed bonds to sell at one-fourth to one-half percent lower interest rates than if they were issued by individual Districts).

The purpose of the District is to construct and maintain pipelines transporting waste from the District to the Santa Cruz City Wastewater Treatment Facility, located at Neary Lagoon, as well as to provide instruction, services, and monitoring for environmental compliance. To accomplish this last item, the District's Environmental Compliance Unit conducts programs to educate residents, professionals, and business owners about the proper use of their sewer and drainage systems in order to help preserve their own, as well as the District's, facilities and to help protect the environment.



**SANTA CRUZ COUNTY
SANITATION DISTRICT**



**REVENUE STUDY
& BUDGET**



**CAPITAL IMPROVEMENT
PROGRAM**

**FISCAL YEARS
2024-2028**

CAPITAL IMPROVEMENT BUDGET PROGRAM

Unlike the Capital Improvement Program, the Capital Improvement Budget normally only includes the current fiscal year's projects and is prepared each year as part of the overall budget of the District.

The Santa Cruz County Sanitation District funds its capital improvement projects through collection of sewer service fees, grants, bond sales, and various state and federal loan programs.

Of the fifty-four capital improvements planned for the 2024-2028 fiscal years, the most significant are the Arana Trunkline Replacement – Phase 1; Rodeo Pump Station Capacity Upgrade; Upper Rodeo Trunkline Replacements; Seacliff/Rio Del Mar Sewer Rehabilitation; Capitola Village Sewer Rehabilitation – Phase 1; Rio Del Mar Sewer Rehabilitation – Phases 2; Santa Cruz Harbor Area Sewer Rehabilitation – Phase 2; Soquel Village Sewer Rehabilitation – Phase 2; West Seacliff Sewer Rehabilitation – Phase 1; Soquel Pump Station Auxiliary Wet Well; and the 2027 Sewer Pipe Rehabilitation projects. Additionally, the East Cliff Transmission Main Relocation project will be a significant project when the City of Santa Cruz retrofits the Murray Street Bridge during the next couple of years. Design continues on the D.A. Porath Facility project which will provide necessary extra workspace and upgraded facility improvements at the District's operation's center.

Significant pipe projects recently completed include the Rio Sands Sewer Rehabilitation, Lower Rodeo Trunkline Replacement, and East Cliff Drive Sewer Replacement (pipe work is completed and final pavement work and striping will be completed in spring 2024). Together these projects installed approximately 8,990 linear feet of gravity sewer main. Manual transfer switch upgrades were completed at the D.A. Porath Facility, and we continue to work on Programmable Logic Controller (PLC) upgrades. Also, in the last year, construction has begun on the 2022 Sewer Rehabilitation Project, Arana Trunkline Replacement – Phase 1, Flush Truck Fill Station, and Valencia Creek Sewer Relocation projects.

For a more in-depth study of the District's financial outlook, attached is the 2023/24 Revenue Study prepared by Hornberger Engineering, which includes a projection of revenue requirements through the year 2025/26 fiscal year.

Also attached is the District's budget for the 2023/24 fiscal year. This budget is based on the sewer service charge rates which were adopted by the District's Board on May 18, 2023. The budget has expected expenditures and contingencies of \$91.1 million and reserves of \$3.9 million for a total of \$95 million. This includes expenditures of \$28.1 million in operating expenses (\$9 million of which is for the District's share of operating expenses at the City of Santa Cruz's wastewater treatment plant and ocean outfall), \$2.6 million in loan payments, \$11.9 million in wastewater capital improvement projects, and \$48.4 million in construction improvement projects.

SANTA CRUZ COUNTY SANITATION DISTRICT



2023-24 REVENUE STUDY



CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS
2024-2028

January 23, 2023

Mr. Matt Machado, P.E.
District Engineer
Santa Cruz County Sanitation District
701 Ocean Street
Santa Cruz, CA 95060

Subject: Santa Cruz County Sanitation District
2023/24 Revenue Study

Dear Mr. Machado,

We are pleased to submit this five-year program of sewer service charges for the Santa Cruz County Sanitation District. The purpose of this study is to incorporate the latest costs associated with the District's projects and programs and to project revenue requirements for the years 2023/24 through 2027/28. The study is based on the projected capital costs, operation and maintenance expenses and customer information prepared by the District staff.

This study assumes five bond issues will be issued as part of the District's Capital Improvement Program funding over the next ten years. The first bond will be for \$38.0 million in June 2024 to fund ten projects. A second bond will be for \$27.0 million in April 2025 to fund the D.A. Porath facility improvements. A third bond will be for \$34.1 million in June 2026 to fund eight projects. Additional bond issues would include \$25 million in June 2028 and \$20 million in June 2030. Additional staff will also be required for the administration of those projects.

As a result of this study, the overall fee increase for fiscal year 2023/24 is 6.1%. Proposed fees for the individual user groups are shown in the following table. Similar increases are projected for the following years of the study period.

We appreciate this opportunity to prepare this revenue study for the Santa Cruz County Sanitation District. Please do not hesitate to contact me if you have any questions or would like any additional information.

Sincerely,

Hornberger Engineering

Gary Hornberger

PROPOSED 2023/24 FEES

| User Group | Proposed 2023/24 Fees | | Existing 2022/23 Fees | | 2023/24 Increases | | |
|--|-----------------------|-------------------------|-----------------------|------------------------|--------------------|---------------------|------------|
| | Flat Fee (\$/year) | Volume Fee (\$/HCF) (1) | Flat Fee (\$/year) | Volume Fee (\$/HCF)(1) | Flat Fee (\$/year) | Volume Fee (\$/HCF) | Change (%) |
| Single Family | \$997.56 | | \$939.96 | | \$57.60 | | 6.1% |
| Townhomes & Condominiums | \$861.36 | | \$812.28 | | \$49.08 | | 6.0% |
| Multiple Family & ADUs | \$861.36 | | \$812.28 | | \$49.08 | | 6.0% |
| Mobile Homes | \$738.84 | | \$697.44 | | \$41.40 | | 5.9% |
| Bakeries/Donut Shops (1) | \$407.64 | \$18.68 | \$390.12 | \$17.41 | \$17.52 | \$1.27 | 7.0% |
| Restaurants/Catering (1) | \$407.64 | \$18.68 | \$390.12 | \$17.41 | \$17.52 | \$1.27 | 7.1% |
| Food Processing (1) | \$407.64 | \$22.05 | \$390.12 | \$20.43 | \$17.52 | \$1.63 | 7.9% |
| Mortuaries (1) | \$407.64 | \$22.05 | \$390.12 | \$20.43 | \$17.52 | \$1.63 | 7.9% |
| Hospitals/Convalescent Hospitals (1) | \$407.64 | \$14.72 | \$390.12 | \$13.27 | \$17.52 | \$1.46 | 10.9% |
| Other Businesses (1) | \$407.64 | \$14.11 | \$390.12 | \$13.27 | \$17.52 | \$0.85 | 5.8% |
| Schools (Sr. High ADA Basis) | \$407.64 | \$36.89 | \$390.12 | \$34.75 | \$17.52 | \$2.14 | 6.1% |
| Schools (Sr. High Usage Basis) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 6.1% |
| Schools (Elem. & Jr. High ADA Basis) | \$407.64 | \$24.63 | \$390.12 | \$23.20 | \$17.52 | \$1.43 | 5.8% |
| Schools (Elem. & Jr. High Usage Basis) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 5.8% |
| Junior Colleges (FTES Basis) | \$407.64 | \$32.50 | \$390.12 | \$30.61 | \$17.52 | \$1.89 | 5.9% |
| State Parks (1) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 6.0% |
| Dominican Hospital (1) | \$407.64 | \$14.72 | \$390.12 | \$13.83 | \$17.52 | \$0.90 | 6.5% |
| Chaminade (1) | \$407.64 | \$19.20 | \$390.12 | \$17.85 | \$17.52 | \$1.35 | 7.5% |
| Overall Increase | | | | | | | 6.1% |

(1) Annual volume charge based on January-September 2022 usage times volume fee.

SANTA CRUZ COUNTY SANITATION DISTRICT

2023/24 REVENUE STUDY



January 2023

Hornberger Engineering
San Jose, California

**SANTA CRUZ COUNTY SANITATION DISTRICT
2023/24 REVENUE STUDY**

Introduction

The Santa Cruz County Sanitation District will require approximately 6.1% to 7.6% annual increases in revenue from fees for sewer service in the next five fiscal years, 2023/24 through 2027/28. The overall fee increase for 2023/24 developed in this study is 6.1%. These increases are primarily related to increased operating expenses, increased capital projects at the wastewater treatment plant operated by the City of Santa Cruz, the District's capital program with an additional \$144 million in bonds, and general inflation.

The District staff has reviewed connection charge revenue, capital outlay needs, operation and maintenance expenses, debt service and miscellaneous revenues for the next five fiscal years. Based on this updated information, proposed fees for sewer service in 2023/24 and estimated fees through 2027/28 have been calculated. The development of these fees is discussed in the following sections.

Requirements for Sewer Service Fees

The District's fees for sewer service are subject to the requirements contained in the Revenue Program Guidelines issued by the California State Water Resources Control Board. This is a condition of the State and Federal grants and loans received by the District.

The Guidelines require that fees for sewer service be designed to recover adequate revenues for the operation and maintenance of the District's facilities. In addition, each user and user class must pay its proportional share of those costs, based on its proportional contribution to the total wastewater loadings from all users. The District's sewer service fees have been reviewed by the State Water Resources Control Board staff and are in compliance with the Guidelines.

The District's fees are also subject to the requirements of Proposition 218. This proposition, passed in 1996, requires that fees shall not exceed the proportional cost of service attributable to any parcel.

Customer Revenue

The projected revenue received for sewer service under the current 2022/23 fees has increased by \$418,000, as shown in Table 1. This is a combination of a \$143,000 increase in residential revenue and a \$275,000 increase in nonresidential revenue. The most significant usage increases in 2022 were for restaurants, which were up 11%, and Other Businesses, which were up 9%. This increase in customer revenue has the effect of decreasing the proposed 2023/24 sewer service fees by 1.4%.

Table 1
Customer Revenue at Current 2022/23 Fees

| Year | Residential Revenue (\$/year) | Nonresidential Revenue (\$/year) | Total Revenue (\$/year) |
|------------|----------------------------------|-------------------------------------|----------------------------|
| 2022/23 | \$25,511,000 | \$4,758,000 | \$30,269,000 |
| 2023/24 | \$25,654,000 | \$5,033,000 | \$30,687,000 |
| Difference | \$143,000 0.6% | \$275,000 5.8% | \$418,000 1.4% |

Connection Charge Revenue

Actual connection charge revenue the past two and one half years has averaged \$315,000. Based on actual revenues, connection charges of \$300,000 have been projected for 2023/24 and the following years.

Capital Improvement Program Funding

Connection charge revenue and contributions from rates are used to fund the District's Capital Improvement Program projects that are not funded by loans or grants. The funding for 2023/24 is \$3,422,000. This will be generated by \$300,000 in connection charge revenue and \$3,122,000 in sewer service fees. The funding for those projects in the five years of the study period is show in Table 2. The projects included in this program are listed in Table 3. Existing fund balances will be used for the additional costs of these projects.

**Table 2
Capital Improvement Program Funding**

| Item | Annual Capital Improvement Program Funding | | | | |
|-------------------------------------|--|----------------------|----------------------|----------------------|----------------------|
| | 2023/24 (\$/year) | 2024/25 (\$/year) | 2025/26 (\$/year) | 2026/27 (\$/year) | 2027/27 (\$/year) |
| Connection Charge Revenue | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 |
| Contribution from Rates | \$3,122,000 | \$2,594,000 | \$2,652,000 | \$2,540,000 | \$4,247,000 |
| Capital Improvement Program Funding | \$3,422,000 | \$2,894,000 | \$2,952,000 | \$2,840,000 | \$4,547,000 |

**Table 3
District Funded Capital Improvement Program**

| Project | 2023/24 | 2024/25 | 2025/26 | 2026/27 | 2027/28 |
|---|-------------|-------------|-------------|-------------|-------------|
| Upper Rodeo Trunkline Replacement & Pump Station | \$500,000 | | | | |
| East Cliff Trans. Main Replacement at Murray St. Bridge | \$200,000 | \$1,500,000 | | | |
| D.A. Porath Facility Improvements | \$1,390,000 | | | | |
| Flowmeter Replacements and Repairs | \$40,000 | | \$40,000 | | \$45,000 |
| Transmission Line Inspection | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| SCADA System Improvements | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 |
| Pump Station Sewage Level Monitoring | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 |
| Cathodic Protection | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| Road Repairs | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 |
| Consulting Engineering Services | \$200,000 | \$100,000 | \$100,000 | \$200,000 | \$300,000 |
| Minor Projects | \$700,000 | \$200,000 | \$200,000 | \$700,000 | \$1,000,000 |
| Soquel FM Inspection | | | \$200,000 | | |
| East Cliff Force Main Inspection | | | \$200,000 | | |
| East Cliff Force Main Repairs - II | | | | \$900,000 | |
| Arana Pump Station | | | \$360,000 | \$40,000 | |
| Soquel Village Phase 2 | \$20,000 | | | | |
| Townsend Area Sewer Rehab | \$25,000 | | | | |
| Santa Cruz Harbor Area Sewer Rehab Phase 2 | | \$100,000 | \$70,000 | | |
| Capitola Village | \$170,000 | \$40,000 | | | |
| Rio Del Mar Sewer Rehab Phase 2 | \$90,000 | \$30,000 | | | |
| Vienna Woods Phase 1 | | | | \$27,000 | |
| Seacliff/Rio Del Mar Sewer Rehabilitation | \$27,000 | | | | |
| West Seacliff Sewer Rehabilitation | \$110,000 | \$40,000 | | | |
| Electrical Upgrades - Hidden Beach Pump Station | | \$140,000 | | | |
| Capitola Pump Station Roof/Drainage | | \$400,000 | | | |
| Emergency Bypass Improvements (Soquel & Capitola) | | \$220,000 | | | |
| Concrete Stairs Rehab | | | \$360,000 | | |
| Access Hatch at Moran Pump Station | | \$50,000 | | | |
| Access Hatch Schwan Pump Station | | | \$250,000 | | |
| Soquel Pump Station Auxiliary Wet Well | | | \$395,000 | \$50,000 | |
| Rio Del Mar Sewer Rehabilitation Phase 3 | | | \$80,000 | \$100,000 | |
| 38th Avenue Area Sewer Rehabilitation | | | \$20,000 | | |
| 41st and Capitola Avenue Area Sewer Rehabilitation | | | \$25,000 | | |
| Live Oak Sewer Rehabilitation Phase 1 | | | \$20,000 | | |
| Beach Drive Sewer Rehabilitation | | | \$80,000 | | |
| Contingencies | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 |
| Total District Funded Capital Projects | \$4,222,000 | \$3,570,000 | \$3,150,000 | \$2,767,000 | \$2,095,000 |

Operation and Maintenance Expenses

The projected operation and maintenance expenses include treatment costs paid to the City of Santa Cruz and the District’s expenses for pump station and collection line maintenance, engineering, source control and fixed assets.

As shown in Table 4, projected treatment expenses have increased from those used in the 2022/23 fees. The District’s share of treatment operations costs has increased by \$148,000 due to inflation. Significant increases in projects at the treatment plant are projected for the five-year study period. These projects are shown in Table 5. The District’s 8/17 share of capital projects has increased by \$930,000. The total increase in City treatment costs for 2023/24 is \$1,078,000.

**Table 4
2023/24 City Treatment Expenses**

| Year | Operations (\$/year) | Capital (\$/year) | Total (\$/year) |
|------------|----------------------|--------------------|----------------------|
| 2022/23 | \$5,660,000 | \$2,227,000 | \$7,887,000 |
| 2023/24 | \$5,808,000 | \$3,157,000 | \$8,965,000 |
| Difference | \$148,000 2.6% | \$930,000 41.8% | \$1,078,000 13.7% |

As shown in Table 6, the District’s O&M expense projections for the next fiscal year have increased by \$943,000 from those used in the 2022/23 fees. This includes increases of 5.1%, or \$756,000, in operating costs and a \$187,000 increase in routine capital expenses.

..

**Table 5
Treatment Plant Capital Improvement Program**

| Project | 2023/24 | 2024/25 | 2025/26 | 2026/27 | 2027/28 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| Equipment Replacement | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 |
| Nearby Park Mitigation CIP | \$250,000 | \$250,000 | \$250,000 | \$250,000 | \$250,000 |
| Jessie Street Park CIP | \$200,000 | | | | |
| Upgrade Digester Equipment | | \$500,000 | | \$500,000 | |
| Modernize Laboratory | \$2,000,000 | | | | |
| WWTP Infrastructure and Major Equipment | \$3,000,000 | \$3,000,000 | \$3,000,000 | \$3,000,000 | \$3,000,000 |
| Total Treatment Plant Capital Projects (1) | \$6,450,000 | \$4,750,000 | \$4,250,000 | \$4,750,000 | \$4,250,000 |

(1) Excluding \$40 million Electrical Project.

**Table 6
2023/24 District Operation and Maintenance Expenses**

| Year | Operations (\$/year) | Capital (\$/year) | Total (\$/year) |
|------------|-------------------------|----------------------|--------------------|
| 2022/23 | \$14,800,000 | \$1,670,000 | \$16,470,000 |
| 2023/24 | \$15,556,000 | \$1,857,000 | \$17,413,000 |
| Difference | \$756,000 5.1% | \$187,000 11.2% | \$943,000 5.7% |

Debt Service

The District currently has three projects funded by State Revolving Fund (SRF) loans. These include \$12 million for the Aptos Transmission Relocation Project, \$5 million for the Soquel Creek Pump Station Force Main and \$1.4 million for the Valencia Creek Sewer Relocation. The Capitola/Jewel Box Sewer project was funded by a \$7 million California Infrastructure and Economic Development Bank (IBank) loan.

In June 2022 the District issued \$19.9 million in revenue bonds to fund three projects. These included the East Cliff, Portola and Richmond Drive Trunklines, the Upper and Lower Rodeo Gulch Trunklines and Pump Station and the Arana Trunkline.

An assessment in 2021 of the condition of the District determined sewer infrastructure requires over \$143 million in capital improvement projects to rehabilitate

and/or replace all infrastructure poorly rated. Another \$80 million in capital improvements is required to address capacity issues that put the system at risk of overflowing in large storm events. The District's 10-year plan included \$31 million in funding for these projects in 2022/23. An additional \$190 million in capital projects for the following nine years would fix approximately 95% of the significant deficiencies identified in 2021. The District plans to issue four revenue bonds starting in 2023/24. These include a \$38 million issue in June of 2024 to fund ten projects, a \$27 million issue in April 2025 to fund the D.A. Porath Facility improvements, a \$34 million issue in June of 2026 to fund eight projects, a \$25 million issue in 2028 and a \$20 million issue in 2030. An additional \$46 million would be generated from sewer service fees.

The District is participating in a \$3.5 million IBank loan for the Ultraviolet System Replacement project at the City wastewater treatment plant. In addition, the District will be participating in the funding for the Electrical System Upgrade at the plant. The latter project is under design with a preliminary cost of \$40 million. The actual project cost and funding have not been established at this time. Estimated debt service for this project has been included for the study period but is subject to change at a later date. The District will pay 8/17 of the debt service for both those projects.

The proposed projects funded by these loans and bonds over the next five fiscal years are shown in Table 7. The debt service schedules for all the District's loans and bonds for the study period are shown in Table 8.

**Table 7
District Loan and Bond Funded Capital Improvement Program**

| Project | Prior Years | 2023/24 | 2024/25 | 2025/26 | 2026/27 | 2027/28 |
|---|---|--|---------------------|--|------------|---------------------|
| State Revolving Fund Loans: Aptos Transmission Relocation Soquel Ck. PS FM Replacement Valencia Creek Sewer Relocation | \$11,982,000 \$5,002,000 \$1,393,000 | | | | | |
| lbank Loans: Capitola / Jewel Box Sewer | \$7,000,000 | | | | | |
| 2022 Bond Issue: East Cliff, Portola, & Richmond Dr. Rodeo Gulch Trunklines/Pump Station Arana Trunkline Non Project | \$7,300,000 \$8,500,000 \$4,100,000 \$45,000 | | | | | |
| Total 2022 Bond Issue | \$19,945,000 | | | | | |
| 2024 Bond Issue: Capitola Village Sewer Rehabilitation Santa Cruz Harbor Area Sewer Rehab. - Ph. 2 Soquel Village Sewer Rehabilitation Townsend Area Sewer Rehabilitation Rio Del Mar Sewer Rehabilitation Phase 2 Seacliff/Rio Del Mar Sewer Rehabilitation Hidden Beach Bypass Emergency Bypass Improvements DA Porath Bypass West Seaciff Sewer Rehabilitation | | \$5,900,000 \$3,820,200 \$4,700,000 \$2,650,000 \$8,486,240 \$2,173,000 \$668,000 \$135,000 \$1,129,000 \$8,292,000 | | | | |
| Total 2024 Bond Issue | | \$37,953,440 | | | | |
| 2025 Bond Issue: DA Porath Facility | | | \$27,000,000 | | | |
| 2026 Bond Issue: Arana Pump Station Vienna Woods Phase 1 Soquel Pump Station Auxillary Wet Well Rio Del Mar Sewer Rehabilitation Phase 3 Beach Drive Sewer Rehabilitation 38th Avenue Area Sewer Rehabilitation 41st Avenue Area Sewer Rehabilitation Live Oak Area Sewer Rehabilitation Phase 1 | | | | \$4,587,000 \$1,690,000 \$2,558,100 \$8,342,000 \$5,874,400 \$2,744,000 \$5,528,000 \$2,744,000 | | |
| Total 2026 Bond Issue | | | | \$34,067,500 | | |
| 2028 Bond Issue: | | | | | | \$25,000,000 |
| City WWTP Projects: UV Replacement (\$3.5 million X 8/17) Electrical System (\$40.0 million X 8/17) | \$1,647,000 | | \$18,824,000 | | | |
| Total City WWTP Projects | \$1,647,000 | \$0 | \$18,824,000 | \$0 | \$0 | \$0 |
| Total Loan and Bond Funded Projects | \$46,969,000 | \$37,953,440 | \$45,824,000 | \$34,067,500 | \$0 | \$25,000,000 |

**Table 8
District Debt Service**

| Item | Annual Debt Service | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 2023/24 (\$/year) | 2024/25 (\$/year) | 2025/26 (\$/year) | 2026/27 (\$/year) | 2027/28 (\$/year) |
| SRF Loan - Aptos Transmission Project | \$790,000 | \$790,000 | \$790,000 | \$790,000 | \$790,000 |
| SRF Loan - Soquel Creek Pump Station | \$219,000 | \$219,000 | \$219,000 | \$219,000 | \$219,000 |
| SRF Loan - Valencia Creek Sewer Relocation | \$53,000 | \$53,000 | \$53,000 | \$53,000 | \$53,000 |
| IBank Loan - Capitola/Jewel Box | \$403,000 | \$403,000 | \$402,000 | \$401,000 | \$401,000 |
| 2022 Bond Issue - 3 Projects | \$1,196,000 | \$1,199,000 | \$1,197,000 | \$1,199,000 | \$1,200,000 |
| 2024 Bond Issue - 10 Projects | | \$2,530,000 | \$2,530,000 | \$2,530,000 | \$2,530,000 |
| 2025 Bond Issue - D.A. Porath Facility | | | \$1,855,000 | \$1,855,000 | \$1,855,000 |
| 2026 Bond Issue - 8 Projects | | | | \$2,340,000 | \$2,340,000 |
| City WWTP Ultraviolet System Replacement | \$83,000 | \$83,000 | \$83,000 | \$83,000 | \$83,000 |
| City WWTP Electrical System Upgrade | | \$1,200,000 | \$1,200,000 | \$1,200,000 | \$1,200,000 |
| Total Debt Service | \$2,744,000 | \$6,477,000 | \$8,329,000 | \$10,670,000 | \$10,671,000 |

Revenue Trust Interest Income

The District uses the investment income received in the Revenue Trust Fund to fund a portion of its operating expenses every year. This reduces the total revenues required from fees for sewer service. Based on actual earnings, the projected annual interest income for 2023/24 and the following years is \$100,000.

Reserve Fund

The District’s Reserve Fund will have a balance of \$4,200,000 at the beginning of 2023/24. The District’s plan is to continue annual increases of \$100,000 over the next ten years, which will bring the balance to \$4,700,000 by the end of 2027/28. This amount will be recovered annually in the sewer service fees.

Total Revenues

Projected revenues required for 2023/24 through 2027/28 from fees for sewer service are shown in Table 9. The total revenue required in 2023/24 is \$32,570,000, which will require an overall fee increase of \$1,883,000 or 6.1%. Annual fee increases for the following four years are projected to be 7.0% to 7.6%

**Table 9
Total Revenue Requirements**

| Item | Annual Revenue Requirement | | | | |
|----------------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|
| | 2023/24 (\$/year) | 2024/25 (\$/year) | 2025/26 (\$/year) | 2026/27 (\$/year) | 2027/28 (\$/year) |
| Capital Improvement Funding | \$3,122,000 | \$2,594,000 | \$2,652,000 | \$2,540,000 | \$4,247,000 |
| Debt Service | \$2,744,000 | \$6,477,000 | \$8,329,000 | \$10,670,000 | \$10,671,000 |
| City Treatment | \$8,965,000 | \$8,365,000 | \$8,362,000 | \$8,858,000 | \$8,875,000 |
| District O&M | \$17,413,000 | \$17,258,000 | \$17,954,000 | \$17,951,000 | \$19,028,000 |
| Reserve Fund | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| Revenue Collection Expense | \$326,000 | \$351,000 | \$377,000 | \$405,000 | \$433,000 |
| Interest Earnings | (\$100,000) | (\$100,000) | (\$100,000) | (\$100,000) | (\$100,000) |
| Total Revenue Requirement | \$32,570,000 | \$35,045,000 | \$37,674,000 | \$40,424,000 | \$43,254,000 |
| Fee Increase | 6.1% | 7.6% | 7.5% | 7.3% | 7.0% |

Sewer Service Fees

The proposed 2023/24 fees for sewer service, based on increased customer usage and total revenue requirements, are shown in Table 10. The overall 2023/24 fee increase is 6.1%. Residential increases are in the range of 5.9% to 6.1%.

These proposed fees are based the average wastewater discharges for the three residential classifications, as adopted by the District Board in January 2022. The discharge by customers in the single family classification is 5.1 HCF per month. The discharge by customers in the combined multiple family classification is 4.1 HCF per month. Mobile home discharge is 3.2 HCF per month.

Nonresidential fee increases vary based on customer size and strength of wastewater discharged. Restaurants, which have high strength wastewater, will have higher increases. Pollutant costs are a significant portion of their fees and those costs are increased as total City treatment costs increase in 2023/24. Increases for other high strength customers are similar.

The Hospital/Convalescent Hospital classification is new and those customers were previously included in the Other Business classification. The volume fee for this classification reflects higher pollutant strengths for hospitals and convalescent hospitals.

A five-year fee program for the study period is shown in Table 11. This table includes adopted fees since 1991/92 and proposed increases through 2027/28.

**Table 10
Proposed 2023/24 Fees**

| User Group | Proposed 2023/24 Fees | | Existing 2022/23 Fees | | 2023/24 Increases | | |
|--|-----------------------|-------------------------|-----------------------|------------------------|--------------------|---------------------|------------|
| | Flat Fee (\$/year) | Volume Fee (\$/HCF) (1) | Flat Fee (\$/year) | Volume Fee (\$/HCF)(1) | Flat Fee (\$/year) | Volume Fee (\$/HCF) | Change (%) |
| Single Family | \$997.56 | | \$939.96 | | \$57.60 | | 6.1% |
| Townhomes & Condominiums | \$861.36 | | \$812.28 | | \$49.08 | | 6.0% |
| Multiple Family & ADUs | \$861.36 | | \$812.28 | | \$49.08 | | 6.0% |
| Mobile Homes | \$738.84 | | \$697.44 | | \$41.40 | | 5.9% |
| Bakeries/Donut Shops (1) | \$407.64 | \$18.68 | \$390.12 | \$17.41 | \$17.52 | \$1.27 | 7.0% |
| Restaurants/Catering (1) | \$407.64 | \$18.68 | \$390.12 | \$17.41 | \$17.52 | \$1.27 | 7.1% |
| Food Processing (1) | \$407.64 | \$22.05 | \$390.12 | \$20.43 | \$17.52 | \$1.63 | 7.9% |
| Mortuaries (1) | \$407.64 | \$22.05 | \$390.12 | \$20.43 | \$17.52 | \$1.63 | 7.9% |
| Hospitals/Convalescent Hospitals (1) | \$407.64 | \$14.72 | \$390.12 | \$13.27 | \$17.52 | \$1.46 | 10.9% |
| Other Businesses (1) | \$407.64 | \$14.11 | \$390.12 | \$13.27 | \$17.52 | \$0.85 | 5.8% |
| Schools (Sr. High ADA Basis) | \$407.64 | \$36.89 | \$390.12 | \$34.75 | \$17.52 | \$2.14 | 6.1% |
| Schools (Sr. High Usage Basis) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 6.1% |
| Schools (Elem. & Jr. High ADA Basis) | \$407.64 | \$24.63 | \$390.12 | \$23.20 | \$17.52 | \$1.43 | 5.8% |
| Schools (Elem. & Jr. High Usage Basis) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 5.8% |
| Junior Colleges (FTES Basis) | \$407.64 | \$32.50 | \$390.12 | \$30.61 | \$17.52 | \$1.89 | 5.9% |
| State Parks (1) | \$407.64 | \$13.63 | \$390.12 | \$12.84 | \$17.52 | \$0.79 | 6.0% |
| Dominican Hospital (1) | \$407.64 | \$14.72 | \$390.12 | \$13.83 | \$17.52 | \$0.90 | 6.5% |
| Chaminade (1) | \$407.64 | \$19.20 | \$390.12 | \$17.85 | \$17.52 | \$1.35 | 7.5% |
| Overall Increase | | | | | | | 6.1% |

(1) Annual volume charge based on January-September 2022 usage times volume fee.

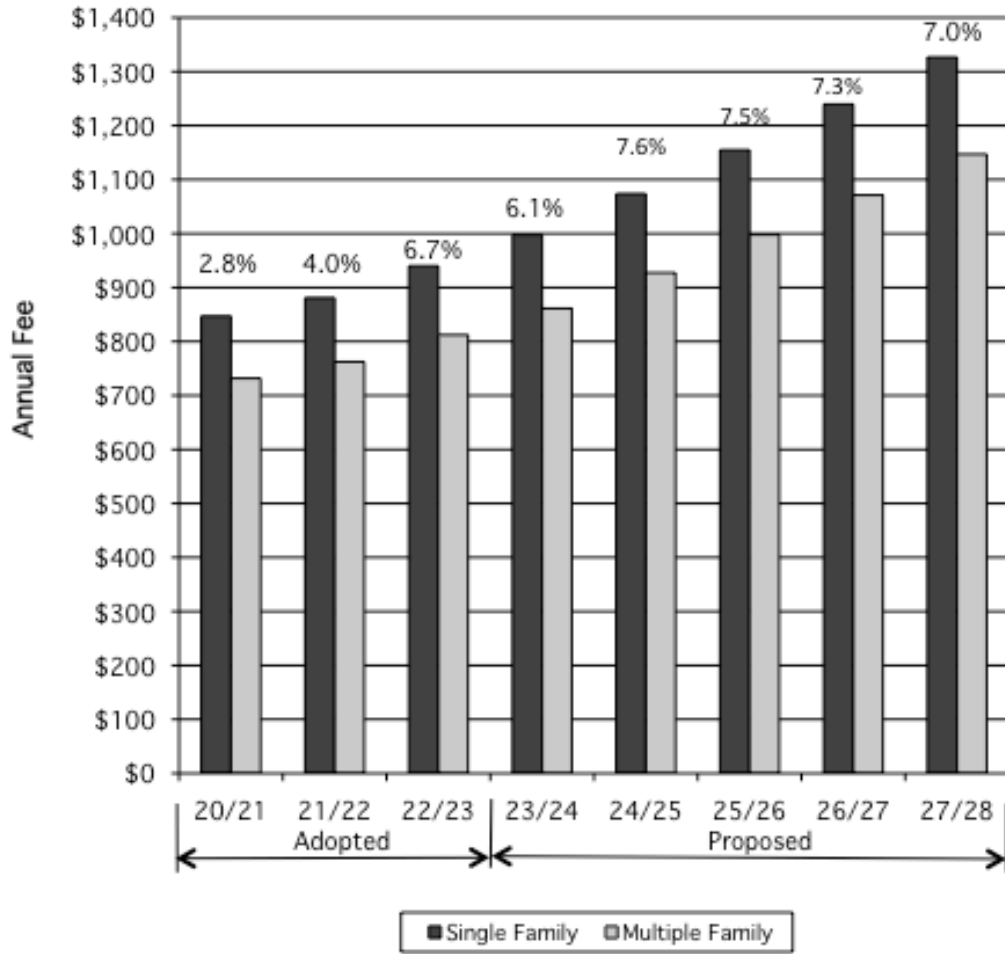
Summary

The overall projected increase in fees for sewer service for fiscal year 2023/24 is 6.1%. The annual increases for the following four years are 7.0% to 7.6%. These increases reflect increased customer usage, additional debt service, treatment plant operating costs and capital improvements and District operating costs and capital improvements. The proposed single family and multiple family annual fees are shown in Figure 1. Future fee increases are dependent upon the magnitude of treatment and collection operating costs, general inflationary trends, interest rates and customer usage.

**Table 11
Five-Year Fee Program**

| Fiscal Year | Average Increase | | | | | |
|-----------------|------------------|-----------------|-------------|------------------------|--------------------|-------------------|
| | Single Family | Multiple Family | Mobile Home | Average Other Business | Average Restaurant | Elementary School |
| | 5.1 HCF/mo. | 4.1 HCF/mo. | 3.2 HCF/mo. | 12 HCF/mo. | 44 HCF/mo. | 369 ADA |
| Adopted | | | | | | |
| 1991/92 | 27.1% | 23.9% | 23.9% | | | |
| 1992/93 | 4.2% | 13.5% | 13.5% | 4.5% | 8.2% | 0.4% |
| 1993/94 | 22.4% | 35.7% | 35.7% | 25.9% | 30.3% | 19.4% |
| 1994/95 | 5.6% | 5.4% | 5.4% | 5.9% | 9.5% | 5.5% |
| 1995/96 | 5.3% | 5.7% | 5.7% | 5.5% | -1.1% | 5.9% |
| 1996/97 | 4.4% | 4.3% | 4.3% | 3.5% | 9.6% | -25.8% |
| 1997/98 | 3.1% | 2.1% | 2.1% | 2.6% | 12.5% | -2.0% |
| 1998/99 | 2.9% | 3.3% | 3.3% | 2.6% | 2.2% | 1.7% |
| 1999/00 | 2.9% | 3.3% | 3.3% | 3.2% | 0.3% | 2.1% |
| 2000/01 | 4.7% | 3.9% | 3.9% | 4.9% | 7.9% | 6.3% |
| 2001/02 | 3.3% | 3.0% | 3.0% | 3.8% | 4.7% | 4.0% |
| 2002/03 | 9.8% | 20.6% | -5.4% | -1.1% | -2.3% | -1.1% |
| 2003/04 | 4.1% | 4.1% | 4.0% | 4.6% | 3.4% | 5.1% |
| 2004/05 | 4.9% | 5.1% | 5.3% | 4.6% | 3.7% | 4.3% |
| 2005/06 | 3.7% | 1.2% | 6.8% | 5.7% | 1.6% | 4.9% |
| 2006/07 | 2.3% | 2.3% | 2.5% | 2.2% | -1.1% | 2.7% |
| 2007/08 | 3.2% | 2.9% | 2.6% | 3.1% | 6.5% | 3.2% |
| 2008/09 | 1.3% | 0.9% | 2.5% | 7.2% | 10.0% | 7.8% |
| 2009/10 | 5.2% | 5.1% | 5.0% | 5.0% | 4.3% | -30.6% |
| 2010/11 | 4.2% | 4.0% | 4.0% | 3.9% | 5.5% | 4.3% |
| 2011/12 | 1.6% | 3.9% | 4.3% | 11.0% | 10.7% | 10.6% |
| 2012/13 | 3.7% | 3.7% | 3.7% | 3.4% | 2.0% | 4.0% |
| 2013/14 | 2.7% | 2.8% | 2.9% | 2.0% | 2.6% | 2.0% |
| 2014/15 | 0.2% | 1.5% | 3.9% | 8.3% | 9.9% | 8.2% |
| 2015/16 | 4.8% | 4.9% | 5.0% | 2.3% | 1.3% | 2.4% |
| 2016/17 | 2.7% | 2.7% | 2.7% | 3.1% | 1.1% | 3.9% |
| 2017/18 | 1.2% | 4.5% | 3.6% | 8.7% | 7.2% | 9.3% |
| 2018/19 | 3.3% | 3.5% | 3.7% | 5.2% | 0.7% | 3.4% |
| 2019/20 | 5.3% | 5.3% | 5.4% | 5.2% | 2.0% | 5.7% |
| 2020/21 | 2.8% | 2.7% | 2.6% | 1.3% | 2.2% | 2.4% |
| 2021/22 | 4.0% | 4.2% | 4.4% | 4.3% | -0.4% | 4.4% |
| 2022/23 | 6.7% | 6.5% | 6.3% | 6.4% | 8.5% | -3.7% |
| Proposed | | | | | | |
| 2023/24 | 6.1% | 6.0% | 5.9% | 5.9% | 7.2% | 6.1% |
| 2024/.5 | 7.6% | 7.7% | 7.7% | 7.4% | 7.3% | 7.6% |
| 2025/26 | 7.5% | 7.6% | 7.7% | 7.5% | 5.9% | 7.9% |
| 2026/27 | 7.3% | 7.3% | 7.3% | 7.2% | 6.9% | 7.5% |
| 2027/28 | 7.0% | 7.1% | 7.2% | 7.1% | 5.6% | 7.3% |

Figure 1
Annual Residential Fees



SANTA CRUZ COUNTY SANITATION DISTRICT

2023-24 BUDGET



CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS
2024-2028



SANTA CRUZ COUNTY SANITATION DISTRICT

701 OCEAN STREET, SUITE 410 · SANTA CRUZ, CA · 95060-4073
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MATT MACHADO, DISTRICT ENGINEER

AGENDA DATE: OCTOBER 19, 2023

BOARD OF DIRECTORS
 SANTA CRUZ COUNTY SANITATION DISTRICT
 701 Ocean Street, Room 410
 Santa Cruz, California 95060

Adopted by the
 Board of Directors, SCCSD
 on *October 19, 2023*

ATTEST: *[Signature]*
 Secretary

SUBJECT: ADOPTION OF 2023-24 SANTA CRUZ COUNTY SANITATION DISTRICT FINAL BUDGET

Members of the Board:

Attached is the Santa Cruz County Sanitation District Final Budget for the 2023-24 fiscal year. This budget has been adjusted to include the fiscal year 2023-24 year-end revenues, expenditures, and fund balances.

Minor adjustments from the Proposed Budget, presented to the Board in June, to the Final Budget, were made based on year-end expenditure data for the 2023-24 fiscal year. More significant adjustments are summarized in the following tables. Overall expenditures for 2023-24 have increased from \$58.8M to \$91.1M. These additional expenditures will be funded by a new Bond measure, proposed for April 2024, in the amount of \$22.6M, \$1.8M in increased loan funding for the Valencia Creek Sewer Relocation project, \$0.8M from the Department of Community Development & Infrastructure Roads Division for their portion of the East Cliff Drive Sewer Rehabilitation project, \$5.1M in excess fund balance from fiscal year 2022-23, and \$2M from reserves.

625175 OPERATING FUND – FIXED ASSETS (50/175)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|---------------------|----------------|----------------|---------------------|-----------------|---|
| P53194 | Operations Lab Work | \$6,704 | \$12,498 | \$28,080 | \$20,000 | This decrease is due to the completion of the Local Limits Study in collaboration with the City of Santa Cruz. |
| P53352 | M&O Training | \$0 | \$0 | \$25,000 | \$50,000 | This increase is due to the added employee safety trainings and trainings for revised Waste Discharge Requirements. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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625175 OPERATING FUND – FIXED ASSETS (50/175) - CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|-----------------------|----------------|----------------|---------------------|-----------------|--|
| P53178 | Legal Costs and Fees | \$97,775 | \$91,503 | \$20,000 | \$75,000 | This increase covers legal review of upcoming code changes and negotiations with landowners for easement rights. |
| P53246 | Motorized Valves | \$130,603 | \$272,933 | \$150,000 | \$75,000 | This decrease is a result of motorized valve purchases completed in prior fiscal years. |
| P53357 | PLC Upgrades | \$90,564 | \$300,236 | \$350,000 | \$650,478 | This increase is due to the long lead times for PLCs ordered in 2022-23 and includes PLC upgrades for 2023-24. |
| P53358 | VFD Replacements | \$149,564 | \$161,478 | \$75,000 | \$95,343 | This increase is due to the long lead time for the VFD replacements ordered in 2022-23 and includes VFD replacements for 2023-24 |
| P53361 | Pump Station Grinders | \$188,760 | \$305,308 | \$90,000 | \$40,000 | This decrease is due to a majority of grinder replacements completed in prior fiscal years. |
| P53375 | Air Relief Valves | -\$1,458 | \$0 | \$90,000 | \$45,000 | This decrease is due to the reduced costs for the air relief valve model that will be utilized for the replacements. |
| P29053 | Combo Truck | \$0 | \$0 | \$0 | \$567,938 | This increase is due to the long lead time for the combo truck ordered in 2022-23. |
| P53285 | F550 Truck with Boom | \$0 | \$0 | \$0 | \$166,496 | This increase is due to the long lead time for the boom truck ordered in 2022-23. |

625195 WASTEWATER CAPITAL IMPROVEMENT FUND – FIXED ASSETS (50/195)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|--|----------------|----------------|---------------------|-----------------|--|
| P54002 | D.A. Porath Lode St. Facility Improvements | \$164,207 | \$338,785 | \$600,000 | \$1,811,000 | \$1.8M was budgeted fiscal year 2022-23 but \$1.46M was not spent, so this increase allows spending of the previously budgeted amount in 2023-24 to cover design costs, project oversight, constructability review, and permits costs. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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625195 WASTEWATER CAPITAL IMPROVEMENT FUND – FIXED ASSETS (50/195) – CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|--|----------------|----------------|---------------------|-----------------|---|
| P54062 | E. Cliff Transmission Secondary Force Main Feasibility Study | \$0 | \$0 | \$0 | \$228,654 | The original scope of work for this contract included work for a flow meter to be installed on the E. Cliff force main; this contract has been reactivated to allow a portion of the unused budget to cover the new flow meter that will be installed on the new force main as part of the force main relocation project led by the City of Santa Cruz. |
| P54119 | Bypass (Capitola & Soquel) | \$0 | \$0 | \$0 | \$500,000 | This project will be funded by Bonds. The Bonds are targeted to close in 2023-24 instead of 2024-25 as originally planned, to move along high priority projects, such as installing emergency bypass systems at these two pump stations. |
| P54120 | Hidden Beach Bypass | \$0 | \$0 | \$0 | \$800,000 | This project will be funded by Bonds. The Bonds are targeted to close in 2023-24 instead of 2024-25 as originally planned, to move along high priority projects, such as installing an emergency bypass system at this pump station. |

136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|--------------------------------|----------------|----------------|---------------------|-----------------|--|
| P53601 | Rio Sands Sewer Rehabilitation | \$4,032 | \$234,566 | \$0 | \$10,000 | The sewer work was completed in 2022-23 but the contractor's retention payment has not been released yet. These funds will cover this for 2023-24. |
| P53610 | 2022 Sewer Pipe Repair | \$0 | \$15,585 | \$280,000 | \$977,861 | \$920,000 was budgeted in 2022-23 but the project construction did not start until 2023-24. These funds will cover construction and construction management. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185) - CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|---|----------------|----------------|---------------------|-----------------|---|
| P53611 | Hidden Beach Sewer/PS Upgrade | \$0 | \$5,740 | \$0 | \$150,000 | This increase is to cover a hoist (structural design and construction) and other necessary upgrades at the pump station. |
| P53613 | Flush Truck Fill Station | \$0 | \$249,758 | \$0 | \$289,000 | \$350,000 was budgeted in 2022-23 but the project construction was only partially completed. These funds will cover construction and construction management in 2023-24. |
| P53616 | Seacliff/Rio Del Mar Sewer Rehabilitation | \$0 | \$17,915 | \$800,000 | \$2,700,000 | This project will be funded by Bonds. The Bonds are targeted to close in 2023-24 instead of 2024-25 as originally planned to move along high priority projects which will enable this project to be constructed in 2023-24 rather than split over two fiscal years as originally planned. |
| P53618 | 22-23 Seacliff A1 PS Protection | \$0 | \$124,266 | \$0 | \$60,000 | The temporary rip-rap protection that was installed during the 2022-23 storms must be removed; this will cover removal costs. |
| P53619 | 22-23 Estates Dr. Trunk Line Emergency | \$0 | \$223,269 | \$0 | \$25,000 | Some construction management time for this emergency project was not paid in 2022-23 and must be paid in 2023-24. |
| P53620 | Phase 2 Soquel Village Sewer | \$0 | \$0 | \$0 | \$6,000,000 | This project will be funded by Bonds. The Bonds are targeted to close in 2023-24 instead of 2024-25 as originally planned, to move along high priority projects, such as rehabilitating sewers in the Soquel Village area. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185) - CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|---|----------------|----------------|---------------------|-----------------|--|
| P53622 | Seacliff at Oakdale Sewer Emergency | \$0 | \$799,227 | \$0 | \$70,000 | Some construction management time for this emergency project was not paid in 2022-23 and must be paid in 2023-24. |
| P53633 | Gross Rd. Sewer Repair E18/E19 | \$0 | \$0 | \$0 | \$70,000 | This emergency occurred after the proposed budget was presented; this will cover the construction and other project costs. |
| P53634 | R2 6560 Muriel Dr. Sewer Repair | \$0 | \$0 | \$0 | \$78,400 | This emergency occurred after the proposed budget was presented; this will cover the construction and other project costs. |
| P53636 | 2023 JOC No. 1 Pipe Repairs | \$0 | \$0 | \$0 | \$640,000 | These required repairs were identified after the proposed budget was presented; this will cover the repairs and other project costs. |
| P53637 | 2023 JOC No. 3 Slurry Seal and Power Wash | \$0 | \$0 | \$0 | \$21,000 | The pavement restoration work was not completed for the Rio Sands project due to wet weather; these funds will cover this work in 2023-24. |
| P53638 | R3 0262 El Dorado Sewer Repair | \$0 | \$0 | \$0 | \$44,800 | This emergency occurred after the proposed budget was presented; this will cover the construction and other project costs. |
| P53812 | Minor Projects | \$0 | \$0 | \$500,000 | \$785,352 | Due to cost escalation, more funds are set aside for future emergency work. |
| P53817 | Consulting Engineering Services | \$0 | \$0 | \$200,000 | \$579,875 | Due to cost escalation in consultants' fees, more funds are set aside for consultants to assist with tasks outside the area of expertise of District staff. |
| P53824 | Cabrillo Park Sewer Replacement | \$3,748 | \$1,764 | \$0 | \$173,794 | The design contract for the second phase of this work has been on hold but may be reactivated in 2023-24 to complete work adjacent to the W. Seacliff Sewer Rehab project. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185) - CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ACTUAL | 2023-24 RECOMMENDED | 2023-24 ADOPTED | EXPLANATION |
|------------|--|----------------|----------------|---------------------|-----------------|--|
| P53630 | W. Seacliff Sewer Rehab Phase 1 | \$0 | \$0 | \$90,000 | \$8,300,000 | This project will be funded by Bonds. The Bonds are targeted to close in 2023-24 instead of 2024-25 as originally planned to move along high priority projects, such as sewer rehabilitation work in West Seacliff that must occur before Measure D paving. |
| P53870 | Valencia Creek Sewer Relocation | \$22,587 | \$177,323 | \$2,310,000 | \$3,500,000 | Bid costs were higher than expected; this increase will cover the construction and management costs for the project. This project is loan funded and additional loan funding is expected to cover the additional costs. |
| P53881 | East Cliff Drive Sewer Replacement | \$645,061 | \$5,563,193 | \$300,000 | \$7,100,000 | \$1.8M budgeted in 2022-23 was not expended and has been added here; the remaining increase is due to unforeseen site conditions. The Board approved an additional \$3M of contingencies in August. Additional funds are required to cover construction management and other associated project costs. |
| P53890 | Capitola Pump Station Pumps, Motors & Controls | \$0 | \$0 | \$0 | \$300,000 | This increase is to cover upgrades required at this critical pump station. |

BOARD OF DIRECTORS – SCCSD

OCTOBER 19, 2023

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It is therefore recommended that the Board of Directors take the following actions:

1. Approve the 2023-24 Final Budget as presented; and
2. Adopt the attached resolution adopting the Final Budget.

Yours truly,

DocuSigned by:

Matt Machado

60EBAC64454G48C
MATT MACHADO

District Engineer

AT/BB/tp:B2636.docx

Attachments:

- A. Resolution Adopting Final Budget
- B. Final 2023-24 Budget
- C. Board letter of May 18, 2023

Copy to:

Nathan Nguyen, Director, City of Santa Cruz, Public Works
Auditor Controller
Business Services

SANTA CRUZ COUNTY SANITATION DISTRICT 2023-24 *FINAL* BUDGET



SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625175 SCCSD OPERATING FUND (50/175)

The Operating Fund is responsible for funding the expenses for the general operations of the District. No sewer connection fee revenue can be used to fund these operations.

| EXPENDITURES: | | | | 21/22 | 22/23 | 23/24 | 23/24 | % Change |
|--|-------|--|------|-------------------|-------------------|-------------------|-------------------|-----------|
| | | | | Actual | Actual | Recommended | Adopted | |
| P53378 | 62330 | SCCSD-Sewage Treatment - City Of Santa Cruz | Engr | 7,292,875 | 8,507,420 | 8,965,000 | 8,965,000 | 0% |
| Maintenance and Operations: | | | | | | | | |
| P53107 | 62330 | Public Outreach | Opns | 27,831 | 64,912 | 60,240 | 60,240 | 0% |
| P53110 | 62330 | Permit Reviews | Opns | 18,142 | 15,538 | 20,000 | 20,000 | 0% |
| P53113 | 62330 | Spill Response-Private Prop | Opns | 3,213 | 5,335 | 10,710 | 10,710 | 0% |
| P53115 | 62330 | Spill Response-Main Sewer Spill | Opns | 29,548 | 11,484 | 35,000 | 35,000 | 0% |
| P53128 | 62330 | Pump Stations | Opns | 2,302,409 | 2,197,222 | 2,255,060 | 2,255,060 | 0% |
| P53130 | 62330 | Collection System | Opns | 2,026,418 | 2,340,144 | 2,744,950 | 2,744,950 | 0% |
| P53132 | 62330 | East Cliff Facility | Opns | 1,436,776 | 1,516,316 | 1,815,700 | 1,815,700 | 0% |
| P53133 | 62330 | Electrical | Opns | 1,626,694 | 1,586,534 | 1,933,330 | 1,933,330 | 0% |
| P53136 | 62330 | Sulfide Control | Opns | 1,214,491 | 1,307,296 | 1,643,000 | 1,643,000 | 0% |
| P53138 | 62330 | Utilities | Opns | 629,272 | 686,585 | 780,000 | 730,000 | -6% |
| P53140 | 62330 | Tree Trimming | Opns | 58,206 | 63,149 | 131,040 | 131,040 | 0% |
| P53142 | 62330 | Source Control Lab Work | Opns | 5,773 | 3,262 | 37,860 | 37,860 | 0% |
| P53174 | 62330 | Source Control Program | Opns | 556,676 | 500,272 | 558,250 | 558,250 | 0% |
| P53193 | 62330 | Green Business Program | Opns | 98,318 | 109,041 | 124,800 | 124,800 | 0% |
| P53194 | 62330 | Operations Lab Work | Opns | 6,704 | 12,498 | 28,080 | 20,000 | -29% |
| P53195 | 62330 | Annual Cathodic Protection Testing & Repairs | Opns | 16,240 | - | 53,920 | 53,920 | 0% |
| P53198 | 62330 | Permit Fees | Opns | 53,966 | 71,856 | 49,280 | 49,280 | 0% |
| P53352 | 62330 | M&O Training | Opns | - | - | 25,000 | 50,000 | 100% |
| P53367 | 62330 | TLC Truck Fill Station | Opns | 5,664 | 42,520 | - | - | 0% |
| P53372 | 62330 | Monarch Butterfly Habitat Plan | Opns | 65,598 | 11,200 | 10,000 | 10,000 | 0% |
| Engineering: | | | | | | | | |
| Various | 62330 | Permit Reviews | Engr | 1,486 | 146 | - | - | 100% |
| P53259 | 62330 | SCCSD Encroachment Permits | Engr | - | 8,662 | 7,000 | 7,000 | 0% |
| P53164 | 62330 | General Engineering | Engr | 1,654,244 | 2,065,199 | 2,430,000 | 2,350,000 | -3% |
| P53168 | 62330 | Service Charge Administration | Engr | 1,895 | - | - | - | 100% |
| Salaries and Wages: | | | | | | | | |
| P53102 | 62330 | Salaries-Secretaries | Engr | 216,368 | 269,042 | 453,455 | 453,455 | 0% |
| P53104 | 62330 | Salaries-Directors | Engr | 5,040 | 4,368 | 5,000 | 5,000 | 0% |
| Miscellaneous: | | | | | | | | |
| P53105 | 62330 | Printing & Mailing | Engr | 22,628 | 27,575 | 40,000 | 40,000 | 0% |
| P53106 | 62330 | Office Expenses | Engr | 6,313 | 13,746 | 12,100 | 12,100 | 0% |
| P53108 | 62330 | Telephone & Communications | Engr | 35,189 | 36,560 | 37,080 | 37,080 | 0% |
| P53170 | 62330 | Accounting & Audit Fees | Engr | 9,492 | 9,492 | 16,500 | 16,500 | 0% |
| P53178 | 62330 | Legal Costs & Fees | Engr | 97,775 | 91,503 | 20,000 | 75,000 | 275% |
| P53182 | 62330 | Travel & Transportation | Both | - | - | - | - | 100% |
| P53171 | 62330 | IRWM Coordination | Engr | 11,200 | 11,200 | 11,250 | 11,250 | 0% |
| P53188 | 62330 | Codification Of Ordinances | Engr | 4,776 | 1,306 | 7,500 | 7,500 | 0% |
| P53165 | 62330 | SSMP | Opns | - | 7,392 | - | - | 100% |
| P53196 | 62330 | Revenue Study | Engr | 26,068 | 16,366 | 28,000 | 28,000 | 0% |
| P29057 | 62330 | SCCSD 22-23 Storm Response | Engr | - | 146 | - | - | 100% |
| Computers: | | | | | | | | |
| P53180 | 62330 | Systems & Programming | MIS | 11,123 | (3,300) | 51,500 | 51,500 | 0% |
| P53186 | 62330 | Computers-Software | MIS | 77,973 | 84,063 | 82,400 | 82,400 | 0% |
| P53192 | 62330 | Computers-Facility Computer Mapping | MIS | 52,059 | 103,178 | 61,800 | 61,800 | 0% |
| Routine Equipment Repair & Replacement: | | | | | | | | |
| P53152 | 62330 | East Cliff Pump Station and Line Equip | Opns | 140,480 | 107,592 | 200,000 | 200,000 | 0% |
| Fixed Assets: | | | | | | | | |
| See Pg2 | 86204 | Equipment | | 813,668 | 1,148,881 | 1,367,000 | 1,517,821 | 11% |
| See Pg2 | 86209 | Mobile Equipment | | 360,084 | 224,808 | 1,150,000 | 1,884,434 | 64% |
| Contingencies: | | | | | | | | |
| P53499 | 98700 | Contingencies | | - | - | 50,000 | 50,000 | 0% |
| TOTAL EXPENDITURES | | | | 21,040,639 | 23,280,509 | 27,311,805 | 28,138,979 | 3% |
| SOURCE OF FUNDS: | | | | | | | | |
| 34400 | | Fund Balance | | 826,088 | 3,180,588 | - | (126,980) | 100% |
| 41308 | | In-Lieu Development Fees | | 10,000 | - | - | - | 0% |
| 41322 | | Plan Checking Fees | | 13,827 | 8,577 | 2,000 | 2,000 | 0% |
| 42047 | | Other Charges Current Services | | 23,597 | 4,465 | 5,000 | 5,000 | 0% |
| 42384 | | Other Revenues, Transfers and Adjustments | | 878,842 | 1,456,144 | - | - | 0% |
| 42450 | | Sales of Fixed Assets-Non Taxable | | - | 9,409 | - | - | 0% |
| 42462 | | Transfer from Revenue Trust | | 22,468,873 | 18,494,346 | 27,304,805 | 28,258,959 | 3% |
| AVAILABLE FUNDS | | | | 24,221,227 | 23,153,530 | 27,311,805 | 28,138,979 | 6% |

Engr = Engineering
Opns = Operations
Both = Engineering & Operations
MIS = Management Information Services

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625175 SCCSD OPERATING FUND - SCHEDULE OF FIXED ASSETS

| | | | | | 21/22 | 22/23 | 23/24 | 23/24 | % Change |
|-------------------------|-------|---------------------------------|---|------|------------------|------------------|------------------|------------------|------------|
| <u>Equipment</u> | | | | | Actual | Actual | Recommended | Adopted | |
| P53226 | 86204 | Emergency Diesel Generators (4) | R | Opns | - | 87,684 | 90,000 | 90,000 | 0% |
| P53240 | 86204 | Network Equipment | R | MIS | - | - | 40,000 | 40,000 | 0% |
| P53246 | 86204 | Motorized Valves | N | Opns | 130,603 | 272,933 | 150,000 | 75,000 | -50% |
| P53256 | 86204 | Radios | R | Opns | - | - | 12,000 | 12,000 | 0% |
| P29054 | 86204 | Cameras -TV'ing Sewer Mains | R | Opns | - | - | 40,000 | 40,000 | 0% |
| P29055 | 86204 | Mixers | R | Opns | - | - | 100,000 | 100,000 | 0% |
| P53357 | 86204 | PLC Upgrades | R | Opns | 90,564 | 300,236 | 350,000 | 650,478 | 86% |
| P53358 | 86204 | VFD Replacements | R | Opns | 149,564 | 161,478 | 75,000 | 95,343 | 27% |
| P53359 | 86204 | Pumps | R | Opns | 255,636 | - | 75,000 | 75,000 | 0% |
| P53361 | 86204 | PS Grinders | R | Opns | 188,760 | 305,308 | 90,000 | 40,000 | -56% |
| P53375 | 86204 | Air Relief Valves | R | Opns | (1,458) | - | 90,000 | 45,000 | -50% |
| P53376 | 86204 | Electrical Equipment | R | Opns | - | - | 200,000 | 200,000 | 0% |
| P53377 | 86204 | Smartcovers | R | Opns | - | 21,242 | 40,000 | 40,000 | 0% |
| P53381 | 86204 | Smart UPS | R | Opns | - | - | 15,000 | 15,000 | 0% |
| Subtotal | | | | | 813,668 | 1,148,881 | 1,367,000 | 1,517,821 | 11% |
| | | | | | | | | | |
| <u>Mobile Equipment</u> | | | | | | | | | |
| P53293 | 86209 | Ford F250 Pickups | R | Opns | 60,151 | - | - | - | 100% |
| P53287 | 86209 | Vac Truck | R | Opns | - | - | 500,000 | 500,000 | 0% |
| P53285 | 86209 | F550 Trucks w/ Boom | R | Opns | - | - | - | 166,496 | 100% |
| P53292 | 86209 | Fleet Pickups | R | Engr | - | 224,808 | - | - | 100% |
| P29053 | 86209 | Combination Vacuum Truck | N | Opns | - | - | - | 567,938 | 100% |
| P53353 | 86209 | Fleet - Vehicle | R | Opns | - | - | 125,000 | 125,000 | 0% |
| P53354 | 86209 | Flush Truck Reel | R | Opns | 35,159 | - | - | - | 100% |
| P53355 | 86209 | Line Equipment | R | Opns | - | - | 525,000 | 525,000 | 0% |
| P53374 | 86209 | Replace CCTV Van | R | Opns | 264,774 | - | - | - | 100% |
| Subtotal | | | | | 360,084 | 224,808 | 1,150,000 | 1,884,434 | 64% |
| | | | | | | | | | |
| TOTAL | | | | | 1,173,752 | 1,373,689 | 2,517,000 | 3,402,255 | 35% |

N = New
R = Replacement
E = Existing

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625195 SCCSD WASTEWATER CAPITAL IMPROVEMENT FUND (50/195)

The Wastewater Capital Improvement fund is required by the provisions of the Clean Water Grants we accepted to build the East Cliff and Aptos Transmission Projects. The fund receives cash, which represents the depreciation on the facilities constructed with Clean Water grant funds. These funds are accumulated so that the facilities can be repaired or reconditioned to insure continued use.

| EXPENDITURES: | | | | 21/22 | 22/23 | 23/24 | 23/24 | % Change |
|---------------------------|-------|--|------|------------------|------------------|------------------|-------------------|------------|
| | | | | Actual | Actual | Recommended | Adopted | |
| P54002 | 86110 | DA Porath - Facility Improvements | Opns | 164,207 | 338,785 | 600,000 | 1,811,000 | 202% |
| P54005 | 86110 | Transmission Line Inspection | Both | - | - | 100,000 | 100,000 | 0% |
| P54023 | 86110 | SCADA System Improvements | Opns | - | - | 248,570 | 248,570 | 0% |
| P54038 | 86110 | Pump Station Sewage Level Monitoring Improvement | Opns | - | - | 50,000 | 50,000 | 0% |
| P54041 | 86110 | Concrete Repairs at Various Pump Stations | Engr | - | - | 150,000 | 150,000 | 0% |
| P54048 | 86110 | Santa Cruz Harbor Transmission Main Rehabilitation | Engr | 489,179 | 6,316 | 6,000,000 | 6,012,707 | 0% |
| P54051 | 86110 | Soquel Pump Station Force Main Replacement | Engr | 60,860 | - | - | - | 0% |
| P54062 | 86110 | E. Cliff Trans Secondary Forcemain Feasibility Study | Engr | - | - | - | 228,654 | 100% |
| P54110 | 86110 | DA Porath Valve Replacement | Engr | 10,094 | 13,492 | - | 1,700,000 | 100% |
| P54111 | 86110 | DA Porath Access Hatch | Engr | - | 50,225 | 291,000 | 291,000 | 0% |
| P54119 | 86110 | Bypass (Capitola & Soquel) | | - | - | - | 500,000 | 100% |
| P54120 | 86110 | Hidden Beach Bypass | | - | - | - | 800,000 | 100% |
| P54099 | 86110 | Wastewater Capital Reserves | Engr | - | - | 200,000 | 200,000 | 0% |
| P54018 | 86110 | Flow Meter Replacement & Repairs | Opns | - | - | 40,000 | 40,000 | 0% |
| TOTAL EXPENDITURES | | | | 724,339 | 408,818 | 7,679,570 | 12,131,930 | 58% |
| SOURCE OF FUNDS: | | | | | | | | |
| 34400 | | Fund Balance | | 1,016,550 | 1,467,960 | 200,085 | 1,248,815 | 524% |
| 40810 | | ST-Natural Disastor Assistance | | - | - | 68,000 | - | -100% |
| 40877 | | SWRCB Prop 84 - Soquel P.S. (P54051) | | 104,436 | 189,673 | 100,000 | - | -100% |
| 41093 | | FED-FEMA | | - | - | 275,000 | - | -100% |
| 42384 | | Other Revenues, Transfers and Adjustments | | (218,411) | - | 4,000,000 | 4,000,000 | 0% |
| 42500 | | Bond Proceeds(P54110,P54119,P54120) | | - | - | - | 3,000,000 | 100% |
| 42462 | | Transfer from Revenue Trust Fund | | 803,801 | - | 3,036,485 | 3,883,115 | 28% |
| AVAILABLE FUNDS | | | | 1,706,375 | 1,657,633 | 7,679,570 | 12,131,930 | 58% |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185)

The Construction Improvement Fund was established to construct needed improvements in the District.

| EXPENDITURES: | | | 21/22 | 22/23 | 23/24 | 23/24 | % Change |
|---------------------------|--|---|------------------|-------------------|-------------------|-------------------|-------------|
| | | | Actual | Actual | Recommended | Adopted | |
| P53601 | 86110 | Rio Sands Sewer Rehab | 4,032 | 234,566 | - | 10,000 | 100% |
| P53602 | 86110 | Cliff Drive Sewer Trench Rep | 187,090 | - | - | - | 0% |
| P53603 | 86110 | Eddy Lane Sewer Relocations | 424 | 5,565 | 1,000,000 | 1,000,000 | 0% |
| P53604 | 86110 | Rodriguez Street Sewer Rehab | 3,402 | 635,152 | - | - | 0% |
| P53606 | 86110 | Portath Parking Improvements | 6,828 | - | - | - | 0% |
| P53608 | 86110 | R3-0180 & R3-0181 38th Ave (MH EK 16 to Exit) | - | 540,474 | - | - | 0% |
| P53609 | 86110 | Rodeo PS Capacity Upgrade | - | - | 2,600,000 | 2,600,000 | 0% |
| P53610 | 86110 | 2022 Sewer Pipe Repair | - | 15,585 | 280,000 | 977,861 | 249% |
| P53611 | 86110 | Hidden Beach Sewer/PS Upgrade | - | 5,740 | - | 150,000 | 100% |
| P53612 | 86110 | Sanitation Sewer Trench Work | - | 30,891 | 30,000 | 30,000 | 0% |
| P53613 | 86110 | Flush Truck Fill Station | - | 249,758 | - | 289,000 | 100% |
| P53616 | 86110 | Seacliff/RDM Sewer Rehab | - | 17,915 | 800,000 | 2,700,000 | 238% |
| P53618 | 86110 | 22-23 Seacliff A1 Ps Protection | - | 124,266 | - | 60,000 | 100% |
| P53619 | 86110 | 22-23 Estates Dr Trunk Line Emerg. | - | 223,269 | - | 25,000 | 100% |
| P53620 | 86110 | Phase 2 Soquel Village Sewer | - | - | - | 6,000,000 | 100% |
| P53622 | 86110 | Seacliff @ Oakdale Sewer Emergency | - | 799,227 | - | 70,000 | 100% |
| P53625 | 86110 | Sccsd Capitola Ave Ce18-Ce27 Emerg. | - | 178,635 | - | - | 0% |
| P53632 | 86110 | CD1/CD2 Clean Out Installation | - | - | - | 5,000 | 100% |
| P53633 | 86110 | Gross Rd Sewer Repair E18/E19 | - | - | - | 70,000 | 100% |
| P53634 | 86110 | R2 6560 Muriel Dr Sewer Repair | - | - | - | 78,400 | 100% |
| P53636 | 86110 | 2023 JOC No. 1 - Pipe Repairs | - | - | - | 640,000 | 100% |
| P53637 | 86110 | 2023 JOC No. 3 - Slurry Seal and Power Wash | - | - | - | 21,000 | 100% |
| P53638 | 86110 | R3 0262 EL Dorado Sewer Repair | - | - | - | 44,800 | 100% |
| P53802 | 86110 | Pump Station Repair/Modifications | 169,703 | 44,430 | - | - | 0% |
| P53804 | 86110 | Cathodic Protection Construction | - | - | 100,000 | 100,000 | 0% |
| P53812 | 86110 | Minor Projects | - | - | 500,000 | 785,352 | 57% |
| P53816 | 86110 | Arana Trunkline Emergency Repair | 890 | - | - | - | 0% |
| P53817 | 86110 | Consulting Engineering Services | - | - | 200,000 | 579,875 | 190% |
| P53824 | 86110 | Cabrillo Park Sewer Replacement | 3,748 | 1,764 | - | 173,794 | 100% |
| P53626 | 86110 | Capitola Village Sewer Rehab | - | - | 170,000 | 170,000 | 0% |
| P53627 | 86110 | Townsend Area Sewer Rehab | - | - | 25,000 | 25,000 | 0% |
| P53628 | 86110 | Rio Del Mar Sewer Rehab Ph 2 | - | - | 90,000 | 90,000 | 0% |
| P53630 | 86110 | W. Seacliff Sewer Rehab Ph 1 | - | - | 90,000 | 8,300,000 | 9122% |
| P53827 | 86110 | Lower Rodeo Trunkline | 32,179 | 214,216 | 2,200,000 | 2,200,000 | 0% |
| P53840 | 86110 | Road/Trench Repairs | - | 86,016 | 50,000 | 50,000 | 0% |
| P53854 | 86110 | 2021 Pipe Rehabilitation | 1,106,584 | - | - | - | 0% |
| P53870 | 86110 | Valencia Creek Sewer Relocation | 22,587 | 177,323 | 2,310,000 | 3,500,000 | 52% |
| P53876 | 86110 | Upper Rodeo Gulch Trunkline & Soquel Sewer Bridge | 135,708 | 234,449 | 5,800,000 | 5,800,000 | 0% |
| P53881 | 86110 | East Cliff Drive Sewer Replacement Project | 645,061 | 5,563,193 | 300,000 | 7,100,000 | 2267% |
| P53890 | 86110 | Capitola Pump Station Pumps, Motors & Controls | - | - | - | 300,000 | 100% |
| P53892 | 86110 | Arana Trunkline Replacement | 328,052 | 208,582 | 4,850,000 | 4,470,000 | -8% |
| P53997 | 74425 | Interest Expense (Valencia and Jewel Box) | - | (4,685) | - | - | 0% |
| P53999 | 98700 | Contingencies | - | - | 75,768 | 75,769 | 0% |
| TOTAL EXPENDITURES | | | 2,646,288 | 9,586,328 | 21,470,768 | 48,490,851 | 126% |
| SOURCE OF FUNDS: | | | | | | | |
| 34400 | Fund Balance | | 4,938,401 | 25,474,961 | 12,105,000 | 16,061,413 | 33% |
| 40435 | Interest-Non County Treasurer | | - | 52 | - | - | 0% |
| 40894 | ST-Other (Natural Disaster) | | - | - | - | 50,994 | 100% |
| 41,093 | Fed - FEMA | | - | - | - | 305,961 | 100% |
| 42384 | Other Revenue | | 400,000 | - | - | 800,000 | 100% |
| 42,500 | Bond Proceeds 2024 | | - | - | - | 19,600,000 | 100% |
| 42506 | Loan Proceeds - SRF for Valencia (53870) | | - | - | 1,393,000 | 3,265,220 | 134% |
| 42462 | Transfer from Revenue Trust | | 3,466,525 | 172,728 | 7,972,768 | 8,407,264 | 5% |
| AVAILABLE FUNDS | | | 8,804,926 | 25,647,741 | 21,470,768 | 48,490,851 | 126% |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625177 SCCSD CLEAN WATER STATE REVOLVING FUND DEBT SERVICE FUND (50/177)

This fund was established to receive the transfers from the Revenue Trust for the payment of principle and interest to repay money borrowed under various Clean Water State Revolving Installment Agreements.

For Finance Agreement No. 09-848-550-0, the total amount borrowed was \$11,981,910 and the principal balance on June 30, 2023 was \$6,299,477. This debt will be retired in 2032.

| EXPENDITURES: | | | 21/22 | 22/23 | 23/24 | 23/24 |
|---------------------------|-------|-----------|----------------|----------------|----------------|----------------|
| | | | Actual | Actual | Recommended | Adopted |
| P54610 | 74110 | Principal | 602,333 | 617,391 | 632,826 | 632,826 |
| P54611 | 74310 | Interest | 187,980 | 172,922 | 157,487 | 157,487 |
| TOTAL EXPENDITURES | | | 790,313 | 790,313 | 790,313 | 790,313 |

SOURCE OF FUNDS:

| | | | | | |
|------------------------|---------------------------------|----------------|----------------|----------------|----------------|
| 34400 | Fund Balance | 588,655 | 128,598 | - | 132,919 |
| 40430 | Interest | 2,902 | 3,276 | 2,000 | 2,000 |
| 42384 | Other Rev, T-fers & Adjustments | (65,927) | - | - | - |
| 42462 | Transfer from Revenue Trust | 393,281 | 791,358 | 788,313 | 655,394 |
| AVAILABLE FUNDS | | 918,911 | 923,232 | 790,313 | 790,313 |

For Finance Agreement No. D17-01046, the total amount borrowed was \$5,000,000 and the principal balance on June 30, 2023 was \$4,788,079. This debt will be retired in 2051.

| EXPENDITURES: | | | 21/22 | 22/23 | 23/24 | 23/24 |
|---------------------------|-------|-----------|----------------|----------------|----------------|----------------|
| | | | Actual | Actual | Recommended | Adopted |
| P54610 | 74110 | Principal | 135,700 | 130,665 | 133,017 | 133,017.33 |
| P54611 | 74310 | Interest | 137,947 | 88,537 | 86,185 | 86,185.43 |
| TOTAL EXPENDITURES | | | 273,647 | 219,203 | 219,203 | 219,203 |

SOURCE OF FUNDS:

| | | | | | |
|------------------------|---------------------------------|----------------|----------------|----------------|----------------|
| 34400 | Fund Balance | 71,990 | - | - | - |
| 40430 | Interest | - | - | - | - |
| 42384 | Other Rev, T-fers & Adjustments | 201,657 | - | - | - |
| 42462 | Transfer from Revenue Trust | - | 219,203 | 219,203 | 219,203 |
| AVAILABLE FUNDS | | 273,647 | 219,203 | 219,203 | 219,203 |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625179 SCCSD DEBT SERVICE FUND (50/179)

This fund was established to receive the transfers from the Revenue Trust for the payment of principal and interest on the money borrowed through various lenders and instruments.

For the California Infrastructure and Economic Development Bank (iBank) Installment Sale Agreement #ISRF 19-129, the total amount borrowed was \$7M and the principle balance at June 30, 2023 was \$6,393303. Payments of principle began in August of 2021 and the debt will be retired in 2048.

| | | | 21/22 | 22/23 | 23/24 | 23/24 |
|---------------------------|-------|----------------------------|-------------------|----------------|----------------|----------------|
| EXPENDITURES: | | | Actual | Actual | Recommended | Adopted |
| 54901 | 74110 | Principal - Jewel Box Loan | 149,009 | 154,164 | 159,498 | 159,498 |
| 54903 | 74310 | Interest - Jewel Box Loan | 234,639 | 229,394 | 226,432 | 226,432 |
| 54903 | 74310 | Annual Fee | 20,568 | 20,121 | 20,121 | 20,121 |
| TOTAL EXPENDITURES | | | 404,215.45 | 403,679 | 406,052 | 406,052 |

SOURCE OF FUNDS:

| | | | 21/22 | 22/23 | 23/24 | 23/24 |
|------------------------|-----------------------------|--|----------------|----------------|----------------|----------------|
| | | | Actual | Actual | Recommended | Adopted |
| 34400 | Fund Balance | | 252,801 | 175,027 | - | 5,743 |
| 40430 | Interest | | 1,742 | 6,461 | 2,000 | 2,000 |
| 42462 | Transfer from Revenue Trust | | 175,691 | 227,934 | 404,052 | 398,308 |
| AVAILABLE FUNDS | | | 430,234 | 409,423 | 406,052 | 406,052 |

The District issued Revenue Bonds for \$20,000,000 on June 30, 2022. Drawdowns are expected to begin FY 2023. Payments on this bond debt are payable semiannually starting on December 1, 2022 until the debt expires in 2052.

| | | | 21/22 | 22/23 | 23/24 | 23/24 |
|---------------------------|-------|--------------------------------|------------|------------------|------------------|------------------|
| EXPENDITURES: | | | Est Actual | Actual | Recommended | Adopted |
| 54901 | 74110 | Principal - 2022 Revenue Bonds | - | 380,000 | 325,000 | 325,000 |
| 54903 | 74310 | Interest - 2022 Revenue Bonds | - | 817,649 | 870,669 | 870,669 |
| | | | - | - | - | - |
| TOTAL DEBT SERVICE | | | - | 1,197,649 | 1,195,669 | 1,195,669 |

SOURCE OF FUNDS:

| | | | 21/22 | 22/23 | 23/24 | 23/24 |
|------------------------|-----------------------------|--|----------|------------------|------------------|------------------|
| | | | Actual | Actual | Recommended | Adopted |
| 34400 | Fund Balance | | - | - | - | - |
| 40430 | Interest | | - | - | - | - |
| 42462 | Transfer from Revenue Trust | | - | 1,278,249 | 1,195,669 | 1,195,669 |
| AVAILABLE FUNDS | | | - | 1,278,249 | 1,195,669 | 1,195,669 |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

SCCSD DEBT RESERVE FUNDS

625178 SCCSD CLEAN WATER STATE REVOLVING FUND DEBT RESERVE FUND (50/178)

This fund was established during the 2019/20 fiscal year as a condition of the Clean Water State Revolving Fund, Finance Agreement No. D17-01046. The agreement requires the District to establish a Restricted Reserve Fund equal to one year's debt service. The annual payments are \$216,646 and the debt will be expired in 2050.

| | 21/22 Actual | 22/23 Actual | 23/24 Recommended | 23/24 Adopted |
|---------------------------------|-----------------|-----------------|----------------------|------------------|
| Contribution to Reserves | - | - | - | - |
| TOTAL EXPENDITURES | - | - | - | - |
| SOURCE OF FUNDS: | | | | |
| Fund Balance (Restricted) | 218,469 | 219,715 | 222,235 | 228,577 |
| Interest | 1,246 | 8,862 | 2,500 | 2,500 |
| Other Rev, T-fers & Adjustments | 271,357 | - | - | - |
| RESERVE BALANCE | 491,072 | 228,577 | 224,735 | 231,077 |

625171 SCCSD CLEAN WATER STATE REVOLVING FUND DEBT RESERVE FUND (50/178-100)

This fund was established during the 2021/22 fiscal year as a condition of the Clean Water State Revolving Fund, Finance Agreement No. 09-848-550-0. The agreement requires the District to establish a Restricted Reserve Fund equal to one year's debt service. The annual payments are \$790,313 and the debt will be expired in 2032.

| | 21/22 Actual | 22/23 Actual | 23/24 Recommended | 23/24 Adopted |
|-----------------------------|-----------------|-----------------|----------------------|------------------|
| Contribution to Reserves | 790,313 | - | - | - |
| TOTAL EXPENDITURES | 790,313 | - | - | - |
| SOURCE OF FUNDS: | | | | |
| Fund Balance (Restricted) | - | 791,029 | 800,129 | 805,304 |
| Interest | 716 | 14,275 | 6,000 | 6,000 |
| Transfer from Revenue Trust | 790,313 | - | - | - |
| RESERVE BALANCE | 791,029 | 805,304 | 806,129 | 811,304 |

625174 SCCSD CLEAN WATER STATE REVOLVING FUND DEBT RESERVE FUND (50/178-400)

This fund was established during the 2021/22 fiscal year as a condition of the Clean Water State Revolving Fund, Finance Agreement No. C-06-8436-110. The agreement requires the District to establish a Restricted Reserve Fund equal to one year's debt service. The annual payments are \$53,178 and the debt will be expired in 2053.

| | 21/22 Actual | 22/23 Actual | 23/24 Recommended | 23/24 Adopted |
|-----------------------------|-----------------|-----------------|----------------------|------------------|
| Contribution to Reserves | 53,178 | - | - | - |
| TOTAL EXPENDITURES | 53,178 | - | - | - |
| SOURCE OF FUNDS: | | | | |
| Fund Balance (Restricted) | - | 53,226 | 53,876 | 54,187 |
| Interest | 48 | 961 | 420 | 420 |
| Transfer from Revenue Trust | 53,178 | - | - | - |
| RESERVE BALANCE | 53,226 | 54,187 | 54,296 | 54,607 |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

SCCSD DEBT RESERVE FUNDS (Continued)

625172 CA INFRASTRUCTURE & ECONOMIC DEVELOPMENT BANK RESERVE FUND (50/178-200)

This fund was established during the 2021/22 fiscal year as a condition of the California Infrastructure and Development Bank Installment Sale Agreement #19-129. This agreement requires a reserve if any parity debt incurred after the effective date of this debt requires a reserve. The required reserve is an amount equal to the reserve requirement of the new parity debt multiplied by the proportion of this debt to the incurred parity debt. This reserve was triggered by the latest SWRCB loan to construct the Valencia Creek Sewer Relocation.

| | 21/22 Actual | 22/23 Actual | 23/24 Recommended | 23/24 Adopted |
|---------------------------------|-----------------|-----------------|----------------------|------------------|
| Contribution to Reserves | - | - | - | - |
| TOTAL EXPENDITURES | - | - | - | - |
| SOURCE OF FUNDS: | | | | |
| Fund Balance (Restricted) | - | 271,357 | 274,467 | 271,357 |
| Interest | - | - | 3,000 | 3,000 |
| Other Rev, T-fers & Adjustments | - | - | - | - |
| Transfer from Revenue Trust | 271,357 | - | - | - |
| RESERVE BALANCE | 271,357 | 271,357 | 277,467 | 274,357 |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

625205 SCCSD REVENUE TRUST (50/205)

The Revenue Trust was created to receive the general revenue for Santa Cruz County Sanitation District. It makes payments to the Debt Service, Operating, Wastewater Capital Improvement and Construction Improvement Funds as needed to fund those activities.

| EXPENDITURES: | | 21/22 Actual | 22/23 Actual | 23/24 Recommended | 23/24 Adopted | % Change | |
|---------------------------|-------|---|-------------------|----------------------|-------------------|-------------------|-----------|
| Transfers to: | | | | | | | |
| 54500 | 90000 | Operating Fund (625175) | 22,468,873 | 18,494,346 | 27,304,805 | 28,258,959 | 3% |
| 54500 | 90000 | Wastewater Capital Improvement Fund (625195) | 803,801 | - | 3,036,485 | 3,883,115 | 28% |
| 54500 | 90000 | Construction Improvement Fund (136409) | 3,466,525 | 172,728 | 7,972,768 | 8,407,264 | 5% |
| 54500 | 90000 | 2008 Clean Water State Revolving Fund Debt Service (625177) | 393,281 | 791,358 | 788,313 | 655,394 | -17% |
| 54500 | 90000 | 2018 Clean Water State Revolving Fund Debt Service (625177) | - | 219,203 | 219,203 | 219,203 | 0% |
| 54500 | 90000 | 2019 iBank Debt Service (625179) | 175,691 | 227,934 | 404,052 | 398,308 | -1% |
| 54500 | 90000 | 2022 Revenue Bonds Debt Service (625179) | - | 1,278,249 | 1,195,669 | 1,195,669 | 0% |
| 54500 | 90000 | Clean Water State Revolving Fund Debt Reserve (625178) | 1,114,848 | - | - | - | 0% |
| TOTAL EXPENDITURES | | | 28,423,019 | 21,183,818 | 40,921,294 | 43,017,912 | 5% |

SOURCE OF FUNDS (FOR TRANSFERS):

| | | | | | | | |
|---------------------------------|---------------------------------------|------------|-------------------|-------------------|-------------------|-------------------|-----------|
| 34400 | Beginning Fund Balance (Unrestricted) | 3,556,912 | 3,453,638 | 12,726,995 | 12,823,612 | 1% | |
| Revenues | | | | | | | |
| 40430 | Interest | 72,240 | 343,488 | 50,000 | 50,000 | 0% | |
| 41842 | Connection Fees | 494,673 | 173,004 | 200,000 | 200,000 | 0% | |
| 41859 | SCCO Sanit Dis rust FD Proc | - | 463 | - | - | 0% | |
| 41866 | Sewer Service Charges | 27,752,704 | 30,003,083 | 32,244,300 | 32,244,300 | 0% | |
| 42367 | Contributions From Other Funds | - | 33,755 | - | - | 0% | |
| 42384 | Other Revenues | 128 | - | - | - | 0% | |
| Revenues Subtotal | | 28,319,745 | 30,553,792 | 32,494,300 | 32,494,300 | 0% | |
| SOURCE OF FUNDS SUBTOTAL | | | 31,876,657 | 34,007,431 | 45,221,295 | 45,317,912 | 0% |
| Reserves | | - | - | (4,300,000) | (2,300,000) | -47% | |
| AVAILABLE FUNDS | | | 31,876,657 | 34,007,431 | 40,921,295 | 43,017,912 | 5% |

SANTA CRUZ COUNTY SANITATION DISTRICT
ADOPTED BUDGET 2023/2024

| <u>USES OF FUNDS</u> | <u>23/24 Adopted</u> |
|--|-----------------------------|
| <u>Expenditures</u> | |
| 625175 Operating Fund | 28,138,979 |
| 625195 Wastewater Capital Impr Projects | 11,931,930 |
| 136409 Construction Improvement Fund | 48,415,083 |
| 625177 Clean Water State Revolving Fund Debt Service | 1,009,516 |
| 625179 iBank - Jewel Box Debt Service | 406,052 |
| 625179 2022 Green Bonds Debt Service | 1,195,669 |
| Total Expenditures | 91,097,228 |
| <u>Reserves</u> | |
| 625195 Wastewater Capital Improvement | 200,000 |
| 136409 Construction Improvement Fund | 75,769 |
| 625178 SWRCB Debt Reserves | 1,096,987 |
| 625172 iBank Debt Reserves | 274,357 |
| 625205 Revenue Trust | 2,300,000 |
| Total Reserves | 3,947,112 |
| TOTAL EXPENDITURES AND RESERVES | 95,044,340.66 |
| <u>SOURCES OF FUNDS</u> | |
| <u>Fund Balances</u> | |
| 625175 Operating Fund | (126,980) |
| 625195 Wastewater Capital Improvement | 1,248,815 |
| 136409 Construction Improvement Fund | 16,061,413 |
| 625177 Clean Water State Revolving Fund Debt Service | 132,919 |
| 625179 iBank - Debt Service | 5,743 |
| 625179 2022 Green Bonds Debt Service | - |
| 625178 Clean Water State Revolving Fund Debt Reserve | 1,088,067 |
| 625172 iBank Debt Reserve | 271,357 |
| 625205 Revenue Trust | 12,823,612 |
| Total Fund Balance | 31,504,947 |
| <u>Revenues</u> | |
| 625175 Plan Checking Fees | 2,000 |
| 625175 Other Charges Current Services | 5,000 |
| 625195 Other Revenue | 4,000,000 |
| 625195 2024 Bond | 3,000,000 |
| 136409 Loan Proceeds - SRF for Valencia (53870) | 3,265,220 |
| 136409 FED-FEMA | 305,961 |
| 136409 ST-Natural Disastor Assistance | 50,994 |
| 136409 Other Revenue - Roads East Cliff Contribution | 800,000 |
| 136409 2024 Bond | 19,600,000 |
| 625177 Interest | 2,000 |
| 625178 Interest | 8,920 |
| 625172 Interest | 3,000 |
| 625179 Interest | 2,000 |
| 625205 Interest | 50,000 |
| 625205 Connection Fees | 200,000 |
| 625205 Sewer Service Charges | 32,244,300 |
| Total Revenues | 63,539,394 |
| TOTAL FUND BALANCES AND REVENUES | 95,044,340.66 |
| DIFF THIS SCHEDULE | - |



SANTA CRUZ COUNTY SANITATION DISTRICT

701 OCEAN STREET, SUITE 410 · SANTA CRUZ, CA · 95060-4073
(831) 454-2160 · FAX (831) 454-2089 · TDD: (831) 454-2123 · WWW.SCCSD.US
MATT MACHADO, DISTRICT ENGINEER

AGENDA DATE: MAY 18, 2023

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

Accepted by the
Board of Directors, SCCSD
on *May 18, 2023*
ATTEST: *[Signature]*
Secretary

SUBJECT: PROPOSED 2023-24 SANTA CRUZ COUNTY SANITATION DISTRICT BUDGET

Members of the Board:

Attached for the Boards review is the proposed District budget for the 2023-24 fiscal year. The budget is based on raising the sewer service charge rates 6.1%. The proposed budget has expected expenditures of \$58,797,611 and reserves of \$5,938,394 for a total of \$64,736,005. This includes expenditures of \$27,311,805 in operating expenses (including \$8.97 million for the District’s share of operating the City of Santa Cruz wastewater treatment plant and capital improvements at the plant), \$2,611,237 in loan payments, \$7,479,570 in wastewater capital improvement projects, and \$21,395,000 in construction improvement projects.

The following projects are among those proposed to be under construction in 2023-24 or are currently under construction during these last months of fiscal year 2022-23:

- 1) 2022 Sewer Pipe Rehabilitation Project
- 2) Eddy Lane Sewer Relocation
- 3) Lower Rodeo Trunkline Replacement
- 4) Upper Rodeo Gulch Trunkline & Soquel Sewer Bridge Sewer Replacement
- 5) Rodeo Pump Station Capacity Upgrade
- 6) East Cliff Drive Sewer Replacement
- 7) Valencia Creek Sewer Relocation
- 8) Arana Trunkline Replacement
- 9) D.A. Porath Pump Station Access Hatch
- 10) Capitola Pump Station Pump Replacement
- 11) East Cliff Transmission Main Relocation at Murray Street Bridge
- 12) Flush Truck Fill Station

District staff obtained \$20 million in bonds to cover the improvements to the Lower Rodeo Trunkline Replacement; Rodeo Pump Station Capacity Upgrade; Upper Rodeo Gulch Trunkline; East Cliff Drive Sewer Replacement; and Arana Trunkline Replacement projects. The District has secured a \$1.4 million loan from the State Water Resources Control Board’s State Revolving fund for the Valencia Creek Sewer Relocation project.

MAY 18, 2023

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The resulting debt service on these loans is similar to that presented in this fiscal year's rate study by Hornberger Engineering.

FIXED ASSETS

This year's proposed fixed assets budget includes funding for network equipment, radios, cameras, mixers, programmable logic controllers' upgrades, variable frequency drives, air relief valves, motorized valves, pump station grinders, emergency electrical generators, electrical equipment, and manhole smart covers. The proposed budget includes funding for a straight jetter in line equipment, and a vacuum truck for the line crew to replace aging equipment.

OVERHEAD

The department overhead of 12 percent includes administrative service salaries within the Public Works Department (personnel, fiscal, safety, MIS, and clerical) and executive salaries for staff providing oversight of the District as well as County Overhead (A-87 Cost Plan). The County overhead charges allocate the cost related to central support departments such as County Counsel, Personnel Department, Auditor-Controller-Treasurer-Tax Collector, Purchasing, and other miscellaneous departments that provide a direct service to the District, as well as general costs for such items as facilities management, building use allowance, communications, and warehouse storage. There is also an 18.01 percent Division overhead that pays for insurance, training, salaries not billable to specific projects, and other indirect costs.

The following budgetary items reflect significant differences between the current and proposed budget amounts (see explanation below):

625175 OPERATING FUND (50/175)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------------------|------------------------------------|----------------|-----------------|---------------------|--|
| P53366, P53378, P53380 | City of Santa Cruz Treatment Costs | \$7,007,459 | \$7,887,000 | \$8,965,000 | This increase is due to new capital improvement projects at the City's treatment plant. |
| P53102 | Salaries - Secretaries | \$216,368 | \$312,000 | \$453,455 | This increase is to add a Board Clerk position and convert the Senior Board Clerk position to a Departmental Administrative Analyst position to meet the administrative needs of the District. |

625175 OPERATING FUND (50/175) CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------|-----------------------|----------------|-----------------|---------------------|---|
| P53105 | Printing & Mailing | \$22,628 | \$26,000 | \$40,000 | This increase is due to the larger volume of projects in construction that will require neighborhood noticing and planned District Code revisions that will require District-wide noticing. |
| P53110 | Permit Reviews | \$18,141 | \$8,200 | \$20,000 | This increase is to allocate staff time for review of project plans to approve permits. |
| P29054 | Cameras | \$0 | \$35,000 | \$40,000 | This increase is for a new camera and tracks for CCTV of sewer mains. |
| P29055 | Mixers | \$0 | \$100,000 | \$100,000 | Mixers were not purchased in 2022-23; new mixers for the pump stations and wet wells are needed. |
| P53246 | Motorized Valves | \$130,603 | \$221,856 | \$150,000 | This decrease is a result of motorized valve purchases completed in prior fiscal years. |
| P53358 | VFD Replacements | \$149,564 | \$185,000 | \$75,000 | This decrease is a result of VFD replacements completed in prior fiscal years. |
| P53359 | Pumps | \$255,635 | \$0 | \$75,000 | This increase is due to pump purchases necessary for 2023-24. |
| P53361 | Pump Station Grinders | \$188,760 | \$380,000 | \$90,000 | This decrease is due to a majority of grinder replacements completed in previous years. |
| P53375 | Air Relief Valves | \$0 | \$40,000 | \$90,000 | This increase is due to no air relief valves purchased in 2022-23; multiple will be purchased this fiscal year. |
| P53376 | Electrical Equipment | \$0 | \$140,000 | \$200,000 | This increase is to replace aging electrical equipment in pump stations; none was purchased in 2022-23 |
| P29053 | Combo Truck | \$0 | \$570,000 | \$0 | A new combination vacuum truck is not necessary for 2023-24. |
| P53285 | F550 Truck with Boom | \$0 | \$329,491 | \$0 | Trucks with booms are not necessary for 2023-24. |
| P53287 | Vac Truck | 0 | 0 | \$500,000 | A new vac truck purchase is necessary for 2023-24 |

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625175 OPERATING FUND (50/175) CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------|-----------------|----------------|-----------------|---------------------|---|
| P53292 | Fleet - Pickup | \$0 | \$272,400 | \$0 | No fleet pickup purchases are planned for 2022-23. |
| P53353 | Fleet - Vehicle | \$0 | \$0 | \$125,000 | Replacements of aging fleet vehicles are needed for 2023-24. |
| P53355 | Line Equipment | \$0 | \$350,000 | \$525,000 | This increase is to replace aging fleet equipment and to account for increased costs in equipment; no purchase was made in 2022-23. |

625195 SCCSD WASTEWATER CAPITAL IMPROVEMENT FUND (50/195)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------|--|----------------|-----------------|---------------------|---|
| P54002 | D.A. Porath Lode St – Facility Improvements | \$164,207 | \$1,800,000 | \$600,000 | An increase is necessary to cover the design costs, project oversight, constructability review and permits costs for 2023-24. |
| P54005 | Transmission Line Inspection | \$0 | \$300,000 | \$100,000 | Due to inspections performed in 2022-23, less is required for 2023-24. |
| P54048 | Santa Cruz Harbor Transmission Main Rehabilitation | \$489,178 | \$2,200,000 | \$6,000,000 | This project did not begin in 2022-23; District funds will be required to cover a portion of the construction not covered by the City’s FHWA grant (2/3 reimbursement is likely). |

136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185)

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------|--------------------------------|----------------|-----------------|---------------------|--|
| P53603 | Eddy Lane Sewer Relocation | \$424 | \$880,000 | \$1,000,000 | Site conditions made this project more challenging than anticipated; construction is delayed to 2023-24 and additional budget is required for trenchless construction. |
| P53610 | 2022 Sewer Pipe Rehabilitation | \$0 | \$920,000 | \$280,000 | A portion of construction will be in 2022-23; budget is required to finish the project in 2023-24. |

136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185) CONTINUED

| BUDGET NO. | ITEM | 2021-22 ACTUAL | 2022-23 ADOPTED | 2023-24 RECOMMENDED | EXPLANATION |
|------------|---|----------------|-----------------|---------------------|--|
| P53612 | Sanitation Sewer Trench Work | \$0 | \$20,000 | \$30,000 | Failing sewer trenches require repairs prior to road paving projects. |
| P53616 | Seacliff/Rio Del Mar Sewer Rehabilitation | \$0 | \$0 | \$800,000 | The first portion of construction work for this project is planned for 2023-24. |
| P53626 | Capitola Village Sewer Rehab | \$0 | \$0 | \$170,000 | Costs for the initial design to replace aging sewer mains is included for 2023-24. |
| P53627 | Townsend Area Sewer Rehab | \$0 | \$0 | \$25,000 | Costs for the initial design to replace aging sewer mains is included for 2023-24. |
| P53628 | Rio Del Mar Sewer Rehab Ph 2 | \$0 | \$0 | \$90,000 | Costs for the initial design to replace aging sewer mains is included for 2023-24. |
| P53630 | W. Seacliff Sewer Rehab Ph 1 | \$0 | \$0 | \$90,000 | Costs for the initial design to replace aging sewer mains is included for 2023-24. |
| P53804 | Cathodic Protection Construction | \$0 | \$200,000 | \$100,000 | Less replacement of anodes and other appurtenances in the cathodic protection systems are necessary in 2023-24 due to annual inspections and work completed in previous years. |
| P53817 | Consulting Engineers | \$0 | \$650,000 | \$200,000 | This decrease is due to more design work being performed by District staff to save on high consulting rates. |
| P53827 | Lower Rodeo Gulch Trunkline Replacement | \$32,179 | \$2,300,000 | \$2,200,000 | Funds allocated in FY 2021-22 for this project included funds to upsize storage at the Rodeo Pump Station; this is now budgeted as a separate project. |
| P53840 | Road Trench Repairs | \$0 | \$93,300 | \$50,000 | In 2022-23 sanitation projects were completed without finishing the roadways. The roadway finishing funds were banked for the County Roads section to use in their larger paving projects for those stretches of roadway; these funds are in the 2023-24 budget. |
| P53881 | East Cliff Drive Sewer Replacement | \$789,196 | \$7,600,000 | \$300,000 | The majority of this project will be completed in 2022-23; these funds will be used to finish off the project in 2023-24. |

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136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185) CONTINUED

| BUDGET NO. | ITEM | 2020-21 ACTUAL | 2021-22 ADOPTED | 2022-23 RECOMMENDED | EXPLANATION |
|------------|-----------------------------|----------------|-----------------|---------------------|---|
| P53892 | Arana Trunkline Replacement | \$328,052 | \$4,120,00 | \$4,850,000 | This increase is due to prolonged negotiations with Harbor High resulting in the project being broken into two construction phases. |

The final budget hearing is set for 4:45 p.m., Thursday, June 8, 2023. This public hearing will employ a hybrid meeting format that combines face-to-face and virtual (Zoom video/audio-conferencing) meeting components. The District is mindful of the need to provide a variety of methods for the public to receive information and provide input, while meeting public health guidelines and protecting vulnerable populations. The attached Notice of Public Hearing will be published in the Santa Cruz Sentinel 15 days and 7 days prior to the budget hearing.

It is therefore recommended that the Board of Directors accept this proposed budget and direct the District Secretary to publish the Notice of Public Hearing.

Yours truly,

DocuSigned by:
Matt Machado
50EBAC64454C48C...
MATT MACHADO
District Engineer

AT:tlp/B2561.docx

Copy to: Nathan Nguyen, Director, City of Santa Cruz, Public Works

Attachments:
Proposed 2023-24 District Budget
Public Hearing Notice



SANTA CRUZ COUNTY SANITATION DISTRICT

DESCRIPTION OF FACILITIES

CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**

WWW.SCCSD.US



DESCRIPTION OF FACILITIES

The Santa Cruz County Sanitation District maintains 200 miles of sanitary sewer pipeline (186 miles of gravity lines, which use gravity to move the sewage along, and 14 miles of force main, which is pressurized), 4,780 manholes and 35 sanitary sewer pump stations. The District serves a population of 72,200 with approximately 36,000 sewer lateral connections.

The D. A. Porath Sanitation Facility is the District’s main pump station and is the location of the Board of Directors’ in-person meetings. It is located at 2750 Lode Street, Santa Cruz, California. This pump station receives wastewater from the collection system which is pumped through a force main to the City of Santa Cruz’s Wastewater Treatment Facility which is a publicly owned treatment works (POTW) plant at Neary Lagoon, in the City of Santa Cruz.

Pump stations (or lift stations) are designed to move raw sewage that is fed from gravity pipelines to pipelines at a higher elevation. Sewage flows into an underground pit, called a wet well. The wet well is equipped with electrical instrumentation to detect the level of sewage, and when the sewage level rises to a pre-set point, a pump motor creates pressure to push the sewage into a force main where it is eventually discharged into a gravity manhole. The cycle then starts over again until the sewage reaches the City Treatment Facility. The size of the pump station depends on the connections being served and the pumps are between 2hp to 230hp. Typically, large pump stations are located in above ground enclosed structures and smaller pump wet wells are located below ground in residential streets.

SCCSD PUMP STATIONS

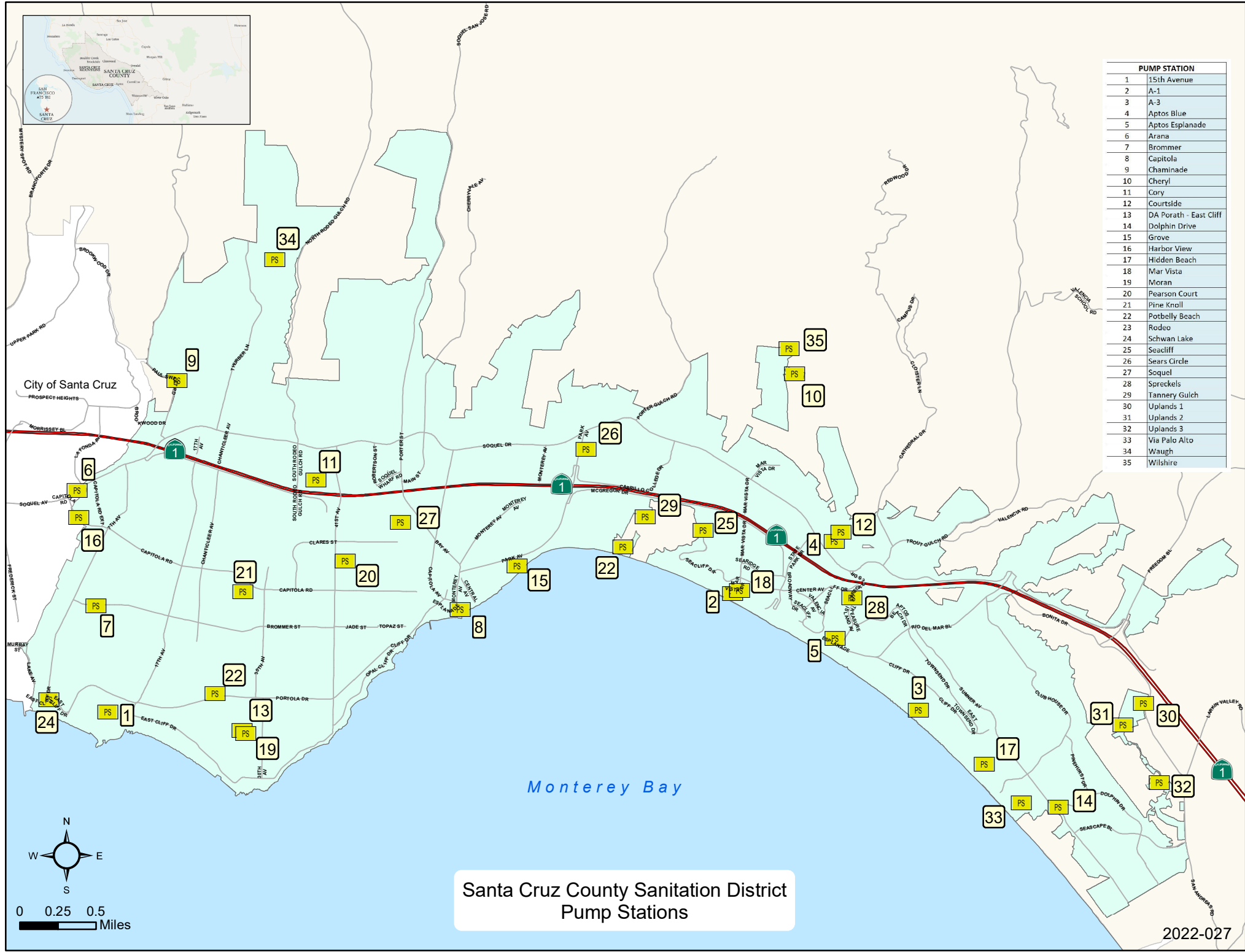
| | | |
|---------------------------|-----------------------------|--|
| 15 th Avenue + | Pearson Court + | <u>KEY</u> |
| A-1 ¹ | Pine Knoll + | |
| A-3 ² | Potbelly Beach ³ | +On site generator |
| Aptos Blue + | Rodeo + | ¹ Fed from Aptos Esplanade Pump Station |
| Aptos Esplanade + | Schwan Lake + | ² Can also gravity to Hidden Beach Pump Station |
| Arana + | Seacliff + | ³ Fed from Tannery Pump Station |
| Brommer + | Sears Circle | |
| Capitola + | Soquel (at Nob Hill) + | |
| Chaminade + | Spreckels + | |
| Cheryl Way+ | Tannery Gulch + | |
| Cory Street + | Uplands 1 + | |
| Courtside + | Uplands 2 + | |
| D. A. Porath + | Uplands 3 + | |
| Dolphin Drive + | Via Palo Alto + | |
| Grove + | Waugh + | |
| Harbor View + | Wilshire + | |
| Hidden Beach + | | |
| Mar Vista + | | |
| Moran + | | |

OTHER FACILITIES

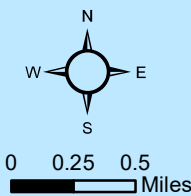
SCADA Repeater Sites: Mt. Toro (Monterey County) and Empire Grade (Santa Cruz County)



| PUMP STATION | |
|--------------|------------------------|
| 1 | 15th Avenue |
| 2 | A-1 |
| 3 | A-3 |
| 4 | Aptos Blue |
| 5 | Aptos Esplanade |
| 6 | Arana |
| 7 | Brommer |
| 8 | Capitola |
| 9 | Chaminade |
| 10 | Cheryl |
| 11 | Cory |
| 12 | Courtside |
| 13 | DA Porath - East Cliff |
| 14 | Dolphin Drive |
| 15 | Grove |
| 16 | Harbor View |
| 17 | Hidden Beach |
| 18 | Mar Vista |
| 19 | Moran |
| 20 | Pearson Court |
| 21 | Pine Knoll |
| 22 | Potbelly Beach |
| 23 | Rodeo |
| 24 | Schwan Lake |
| 25 | Seacliff |
| 26 | Sears Circle |
| 27 | Soquel |
| 28 | Spreckels |
| 29 | Tannery Gulch |
| 30 | Uplands 1 |
| 31 | Uplands 2 |
| 32 | Uplands 3 |
| 33 | Via Palo Alto |
| 34 | Waugh |
| 35 | Wilshire |



Santa Cruz County Sanitation District
Pump Stations



SANTA CRUZ COUNTY SANITATION DISTRICT



PUMP STATIONS



CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**



15th AVENUE

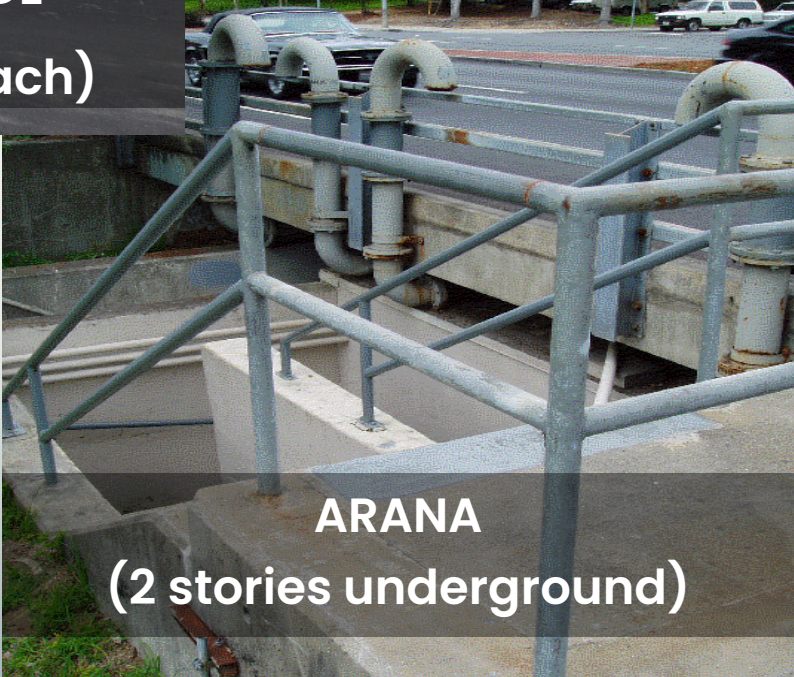


A1
(At Seacliff Beach)





**APTOS ESPLANADE
(At Rio Del Mar Beach)**



**ARANA
(2 stories underground)**



BROMMER



CAPITOLA



CHAMINADE



CHERYL WAY



CORY STREET



COURTSIDE





GROVE



HARBOR VIEW



HIDDEN BEACH



MAR VISTA



MORAN



PEARSON COURT



PINE KNOLL



POTBELLY BEACH



RODEO
(On Richmond Drive)



SCHWAN LAKE

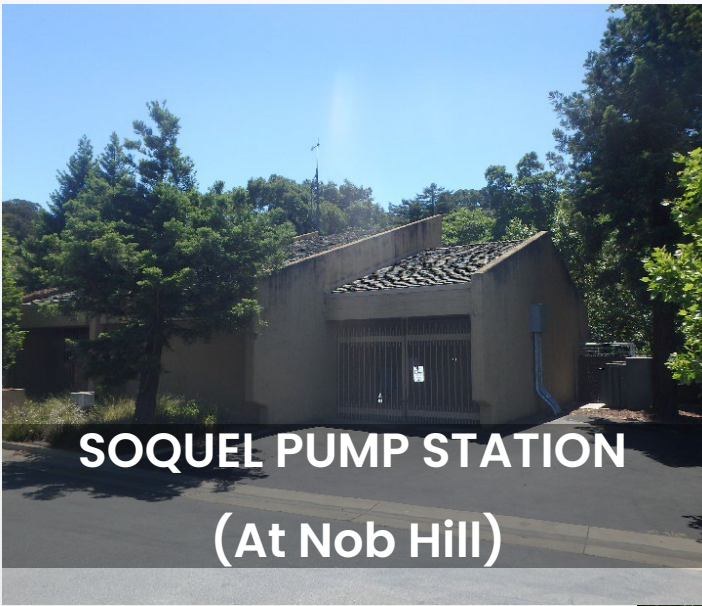


SEACLIFF



SEARS CIRCLE





SOQUEL PUMP STATION
(At Nob Hill)



SPRECKELS



TANNERY GULCH
(On New Brighton Road)





UPLANDS 1

(On Zanzibar Drive, Rio Del Mar)



UPLANDS 2

(Also on Zanzibar Drive)



UPLANDS 3

(On Castillo Court)



SANTA CRUZ COUNTY SANITATION DISTRICT



SUMMARY OF PROJECTS



CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**

SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | YEAR | STATUS |
|-------------|---|----------|------------|------------|------------|-----------------------------|---------|-----------------|
| P54116 | MANUAL TRANSFER SWITCH INSTALLATION 2021/22–2022/23 | | × | × | | \$ 50,000 | 2021/22 | COMPLETED |
| P53358 | VFD REPLACEMENT 2021/22–2022/23 | × | × | × | | \$ 311,042 | 2021/22 | IN PROGRESS |
| P53357 | PLC UPGRADES 2022/23–2023/24 | × | × | × | | \$ 300,478 | 2022/23 | IN DESIGN |
| P53601 | RIO SANDS SEWER REHABILITATION | | | × | | \$ 296,000 | 2022/23 | COMPLETED |
| P53604 | RODRIGUEZ STREET SEWER REHABILITATION | | × | | | \$ 737,000 | 2022/23 | COMPLETED |
| P54112 | UPS UPGRADES 2022/23–2023/24 | × | × | × | | \$ 40,000 | 2022/23 | IN PROGRESS |
| P53358 | VFD REPLACEMENT 2022/23–2023/24 | × | × | × | | \$ 95,343 | 2022/23 | IN PROGRESS |
| P53610 | 2022 SEWER PIPE REPAIR PROJECT | × | × | | | \$ 934,735 | 2023/24 | IN CONSTRUCTION |
| P53892 | ARANA TRUNK LINE REPLACEMENT—PHASE 1 | | × | | | \$ 5,250,680 | 2023/24 | IN CONSTRUCTION |
| P53802 | CAPITOLA PUMP STATION PUMP REPLACEMENT | × | | × | | \$ 400,000 | 2023/24 | IN DESIGN |

SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | YEAR | STATUS |
|-------------|--|----------|------------|------------|------------|-----------------------------|---------|-----------------|
| P54111 | D.A. PORATH PUMP STATION ACCESS HATCHES | | × | | | \$ 508,460 | 2023/24 | IN DESIGN |
| P53881 | EAST CLIFF DRIVE SEWER REPLACEMENT | | × | | | \$ 12,027,440 | 2023/24 | IN CONSTRUCTION |
| P54048 | EAST CLIFF TRANSMISION MAIN RELOCATION AT MURRAY STREET BRIDGE | | | | × | \$ 9,592,740 | 2023/24 | AWARD PENDING |
| P53603 | EDDY LANE SEWER RELOCATION | | × | | | \$ 1,646,460 | 2023/24 | IN DESIGN |
| P53613 | FLUSH TRUCK FILL STATION | | | × | | \$ 606,300 | 2023/24 | IN CONSTRUCTION |
| P54115 | GENERATOR PLUG AND MANUAL TRANSFER SWITCH UPGRADES 2023/24 | | × | × | | \$ 150,000 | 2023/24 | IN PROGRESS |
| P54114 | GENERATOR REPLACEMENT 2023/24 | | | × | | \$ 90,000 | 2023/24 | IN DESIGN |
| TBD | HIDDEN BEACH METER MAIN AND AUTOMATIC TRANSFER SWITCH | | | × | | \$ 140,000 | 2023/24 | IN PROGRESS |
| P53611 | HIDDEN BEACH PUMP STATION BYPASS | | | × | | \$ 802,300 | 2023/24 | IN DESIGN |
| P53827 | LOWER RODEO TRUNKLINE REPLACEMENT | | × | | | \$ 2,371,965 | 2023/24 | IN CONSTRUCTION |

SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | YEAR | STATUS |
|-------------|---|----------|------------|------------|------------|-----------------------------|---------|-----------------|
| P54116 | MANUAL TRANSFER SWITCH INSTALLATION 2023/24 | × | | × | | \$ 50,000 | 2023/24 | IN DESIGN |
| P53357 | PLC UPGRADES 2023/24–2024/25 | | × | × | | \$ 350,000 | 2023/24 | IN DESIGN |
| P53802 | RODEO PUMP STATION CAPACITY UPGRADE | | × | | | \$ 3,267,600 | 2023/24 | IN DESIGN |
| P53616 | SEACLIFF/RIO DEL MAR SEWER REHABILITATION | | | × | | \$ 3,393,370 | 2023/24 | IN DESIGN |
| P53876 | UPPER RODEO GULCH TRUNKLINE AND SOQUEL BRIDGE SEWER REPLACEMENT | | × | | | \$ 8,216,940 | 2023/24 | AWARDED |
| P54112 | UPS UPGRADES 2023/24 | × | × | × | | \$ 40,000 | 2023/24 | IN PROGRESS |
| P53870 | VALENCIA CREEK SEWER RELOCATION | | | × | | \$ 4,155,500 | 2023/24 | IN CONSTRUCTION |
| P54113 | ACCESS HATCH AT MORAN PUMP STATION | | × | | | \$ 75,000 | 2024/25 | FUTURE DESIGN |
| P54117 | CAPITOLA PUMP STATION ROOF/DRAINAGE IMPROVEMENTS | × | | × | | \$ 400,000 | 2024/25 | FUTURE DESIGN |
| P54110 | D.A. PORATH VALVE REPLACEMENT AND EMERGENCY BYPASS | | × | | | \$ 1,615,900 | 2024/25 | IN DESIGN |

SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | YEAR | STATUS |
|-------------|--|----------|------------|------------|------------|-----------------------------|---------|---------------|
| P54119 | EMERGENCY BYPASS IMPROVEMENTS 2024/25 | × | | × | | \$ 706,400 | 2024/25 | FUTURE DESIGN |
| P54115 | GENERATOR PLUG AND MANUAL TRANSFER SWITCH UPGRADES | | × | × | | \$ 240,000 | 2024/25 | FUTURE DESIGN |
| P54114 | GENERATOR REPLACEMENT 2024/25 | × | | × | | \$ 60,000 | 2024/25 | FUTURE DESIGN |
| P53643 | MAIN STREET SEWER | | × | | | \$ 309,100 | 2024/25 | FUTURE DESIGN |
| P53357 | PLC UPGRADES 2024/25 | | × | × | | \$ 250,000 | 2024/25 | FUTURE DESIGN |
| P53620 | SOQUEL VILLAGE SEWER REHABILITATION—PHASE 2 | | × | | | \$ 8,822,600 | 2024/25 | FUTURE DESIGN |
| P54112 | UPS UPGRADES 2024/25—STAGE 1 | | × | × | | \$ 50,000 | 2024/25 | FUTURE DESIGN |
| P54112 | UPS UPGRADES 2024/25—STAGE 2 | × | × | × | | \$ 65,000 | 2024/25 | FUTURE DESIGN |
| P53358 | VFD REPLACEMENT 2024/25 | | × | | | \$ 75,000 | 2024/25 | IN PROGRESS |
| P53630 | WEST SEACLIFF SEWER REHABILITATION—PHASE 1 | | | × | | \$ 8,870,000 | 2024/25 | IN DESIGN |

SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | YEAR | STATUS |
|-------------|---|----------|------------|------------|------------|-----------------------------|---------|---------------|
| TBD | ACCESS HATCH AT SCHWAN LAKE PUMP STATION | | × | | | \$ 276,080 | 2025/26 | FUTURE DESIGN |
| TBD | CONCRETE STAIRS REHABILITATION | | × | | | \$ 475,000 | 2025/26 | FUTURE DESIGN |
| P54002 | D.A. PORATH FACILITY IMPROVEMENTS | | × | | | \$ 27,241,240 | 2025/26 | IN DESIGN |
| P53363 | EAST CLIFF TRANSMISSION MAIN INSPECTION | | × | | × | \$ 200,000 | 2025/26 | FUTURE DESIGN |
| P54114 | GENERATOR REPLACEMENT 2025/26 | | | × | | \$ 65,000 | 2025/26 | FUTURE DESIGN |
| P54116 | MANUAL TRANSFER SWITCH INSTALLATION 2025/26 | | × | × | | \$ 160,000 | 2025/26 | FUTURE DESIGN |
| TBD | 2027 SEWER PIPE REHABILITATION | × | × | × | | \$ 4,452,400 | 2026/27 | FUTURE DESIGN |
| P53626 | CAPITOLA VILLAGE SEWER REHABILITATION—PHASE 1 | × | | × | | \$ 5,301,000 | 2026/27 | FUTURE DESIGN |
| P54055 | EAST CLIFF TRANSMISSION MAIN REPAIRS | | × | | × | \$ 900,000 | 2026/27 | FUTURE DESIGN |
| TBD | RIO DEL MAR SEWER REHABILITATION—PHASE 2 | | | × | | \$ 10,684,600 | 2026/27 | FUTURE DESIGN |

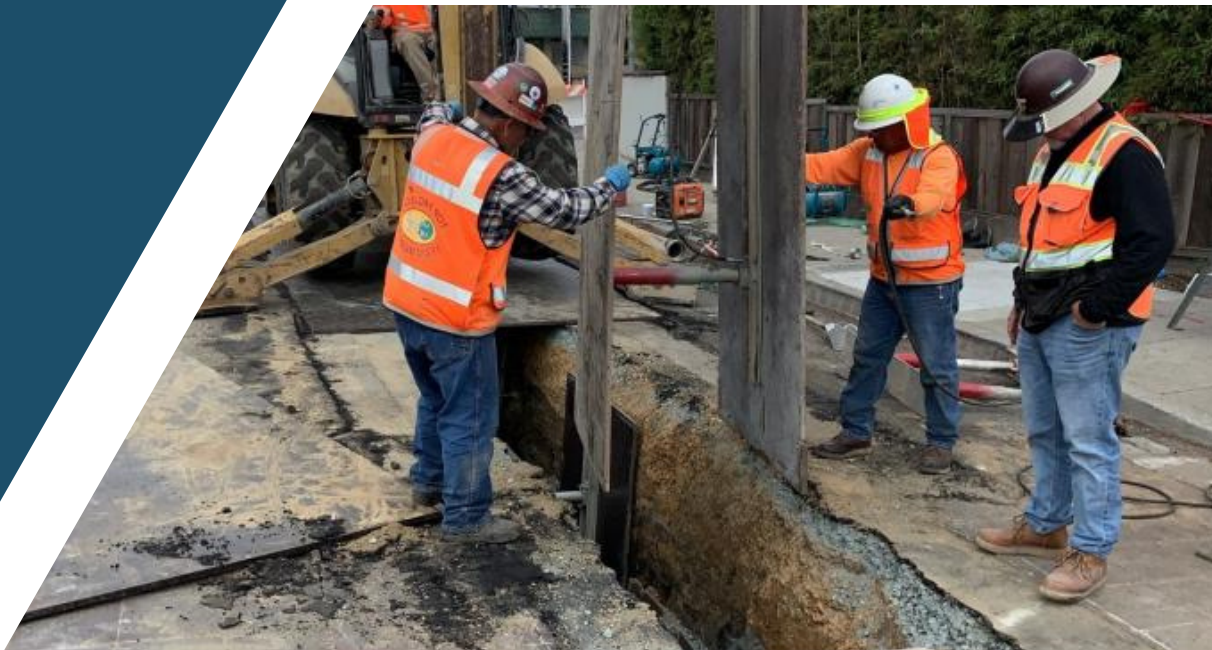
SUMMARY OF PROJECTS

| PROJECT NO. | PROJECT | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | TOTAL PROJECT COST ESTIMATE | | YEAR | STATUS |
|-------------|---|----------|------------|------------|------------|-----------------------------|-----------|---------|---------------|
| P53629 | SANTA CRUZ HARBOR AREA SEWER REHABILITATION—PHASE 2 | | X | | | \$ | 6,556,900 | 2026/27 | FUTURE DESIGN |
| TBD | SOQUEL PUMP STATION AUXILIARY WET WELL | X | | X | | \$ | 3,565,100 | 2026/27 | FUTURE DESIGN |

SANTA CRUZ COUNTY SANITATION DISTRICT



ONGOING OPERATIONS PROJECTS



CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS
2024-2028

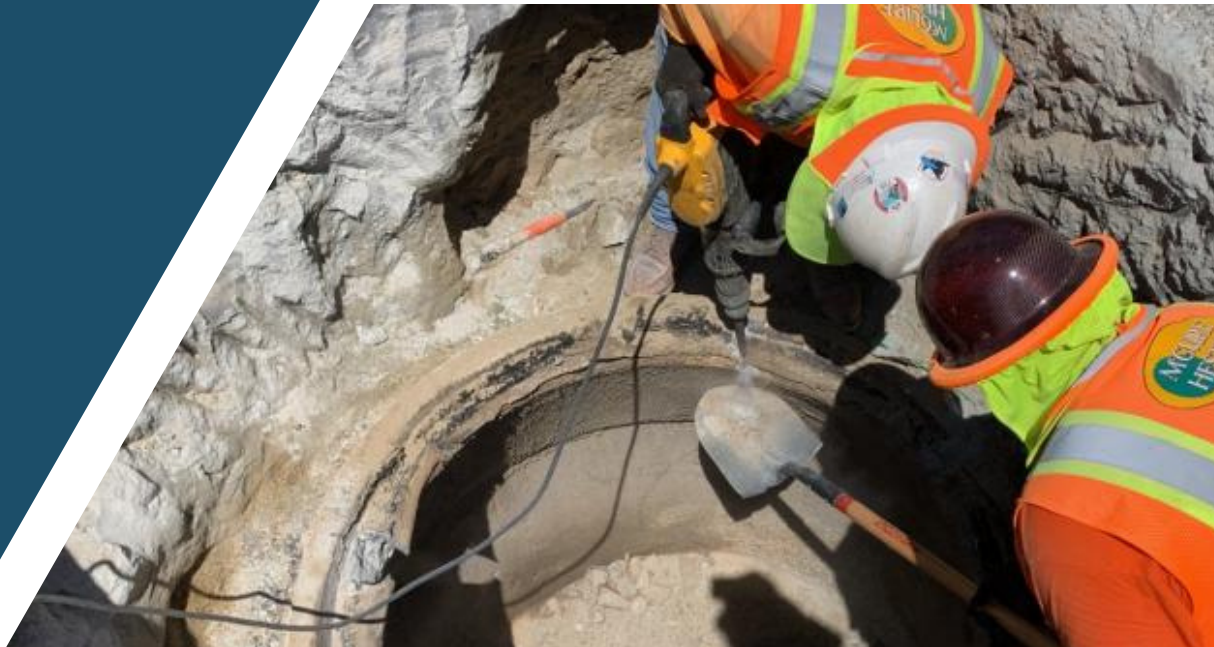
ONGOING OPERATIONS PROJECTS

| PROJECT NO. | PROJECT | 2023/24 | 2024/25 | 2025/26 | 2026/27 | 2027/28 | 2028/29 |
|-------------|--|------------|------------|------------|------------|------------|------------|
| TBD | AIR RELIEF VALVE IMPROVEMENTS | \$ 45,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 |
| P53804 | CATHODIC PROTECTION | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 |
| P54018 | FLOW METER IMPROVEMENTS | \$ 40,000 | \$ 0 | \$ 40,000 | \$ 0 | \$ 45,000 | \$ 0 |
| P54038 | PUMP STATION SEWAGE LEVEL MONITORING IMPROVEMENTS | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 |
| P54023 | SCADA IMPROVEMENTS | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 |
| P54005 | TRANSMISSION LINE INSPECTION | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 |

SANTA CRUZ COUNTY SANITATION DISTRICT



INDIVIDUAL PROJECTS



CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**

MANUAL TRANSFER SWITCH UPGRADES 2021/22- 2022/23

CAPITOLA
 DISTRICT 1
 DISTRICT 2
 CITY OF SANTA CRUZ

| PUMP STATION | LOCATION |
|----------------------|--------------|
| D.A. PORATH FACILITY | 2750 LODE ST |



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | COMPLETED |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2021/22-2022/23 |
| DESCRIPTION: | Install a manual transfer switches for power shutoff at the D.A. Porath pump station. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 50,000 |
| Total Estimated Project Costs | \$ | 50,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 50,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 50,000 |
| Funding Not Yet Identified | \$ | - |

VFD REPLACEMENTS

2021/22-2022/23

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM IMPROVEMENTS | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2021/22-2022/23 |
| DESCRIPTION: | Variable Frequency Drive (VFD) replacements at D.A. Porath Pump Station and Soquel Pump Station. Due to long lead times for equipment deliveries, the VFD replacements at D.A. Porath Pump Station will be completed in FY 2022/23. VFDs at Capitola Pump Station were replaced in FY 2021/22. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 311,042 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 311,042 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 311,042 |
| Funding Not Yet Identified | \$ - |

PLC UPGRADES 2022/23 – 2023/24

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PROJECT | LOCATION | EXISTING PLC MODEL |
|----------------|--------------------------|--------------------|
| A3 | 440 BEACH DRIVE | MicroLogix 1500 |
| CHERYL | 1829 CHERYL WAY | MicroLogix 1500 |
| CORY | 4035 CORY STREET | MicroLogix 1500 |
| GROVE | 100 GROVE LANE | MicroLogix 1500 |
| HARBOR VIEW | CAPITOLA AND HARBOR VIEW | MicroLogix 1500 |
| PEARSON CT. | 4146 PEARSON COURT | MicroLogix 1500 |
| POTBELLY BEACH | 23 POTBELLY BEACH ROAD | Compact Logix L23E |



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2022/23—2023/24 |
| DESCRIPTION: | Replace and upgrade older Programmable Logic Controllers (PLCs) at seven pump stations. Due to the long lead times in material procurement, PLC upgrades will be completed in FY 2023/24. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 300,478 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 300,478 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 300,478 |
| Funding Not Yet Identified | \$ - |

RIO SANDS SEWER REHABILITATION

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | COMPLETED |
| LOCATION: | RIO DEL MAR | ESTIMATED CONSTRUCTION YEARS: | 2022/23 |
| DESCRIPTION: | Replaced 500± linear feet of deteriorating public gravity sewer mains and manholes located on the Rio Sands Hotel property. This portion of sewer main becomes plugged with roots and has become too deteriorated to apply traditional flushing techniques to clear the blockages. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 4,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 1,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 50,000 |
| Acquisition/Appraisal | \$ - |
| Construction | \$ 188,400 |
| Construction Management | \$ 10,000 |
| Construction Inspection | \$ 20,000 |
| Other | \$ 22,600 |
| Total Estimated Project Costs | \$ 296,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 296,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 296,000 |
| Funding Not Yet Identified | \$ - |

RODRIGUEZ STREET SEWER REHABILITATION

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | COMPLETED |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2022/23 |
| DESCRIPTION: | Replaced 600± linear feet of deteriorating gravity sewer mains and repair associate manholes. The sewer lines are old, deteriorating and at the end of their design life. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 10,000 |
| Preliminary Design | \$ |
| Environmental | \$ 2,000 |
| Geotechnical | \$ |
| Engineering Design | \$ 50,000 |
| Acquisition | \$ |
| Construction | \$ 415,000 |
| Construction Management | \$ 44,000 |
| Construction Inspection | \$ 99,000 |
| Other | \$ 117,000 |
| Total Estimated Project Costs | \$ 737,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 737,000 |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 737,000 |
| Funding Not Yet Identified | \$ - |

UPS UPGRADES 2022/23- 2023/24

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PUMP STATION | LOCATION | UPS MODEL |
|-----------------|------------------------|-----------------------|
| APTOS ESPLANADE | 104 MARINA AVE | MARATHON VTWE-0700-01 |
| D.A. PORATH | 2750 LODE ST | MARATHON VTWE-0700-01 |
| DOLPHIN | SUMNER AVE | MARATHON VTWE-0700-01 |
| HIDDEN BEACH | 770 CLIFF DR | MARATHON VTWE-0700-01 |
| SCHWAN LAKE | EAST CLIFF AND 7TH AVE | MARATHON VTWE-0700-01 |
| SOQUEL | 809 BAY AVE | MARATHON VTWE-0700-01 |



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2022/23-2023/24 |
| DESCRIPTION: | Install Smart UPS at various pump stations to monitor on SCADA. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 40,000 |
| Total Estimated Project Costs | \$ | 40,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 40,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 40,000 |
| Funding Not Yet Identified | \$ | - |

VFD REPLACEMENTS

2022/23—2023/24

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



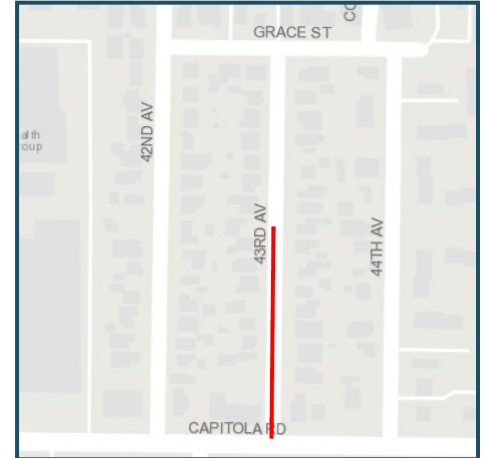
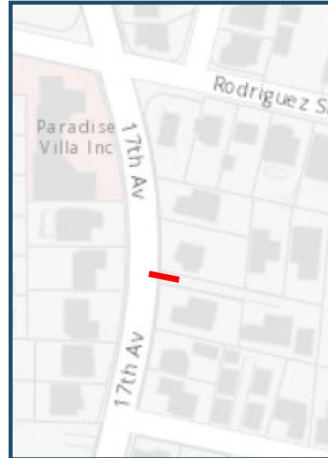
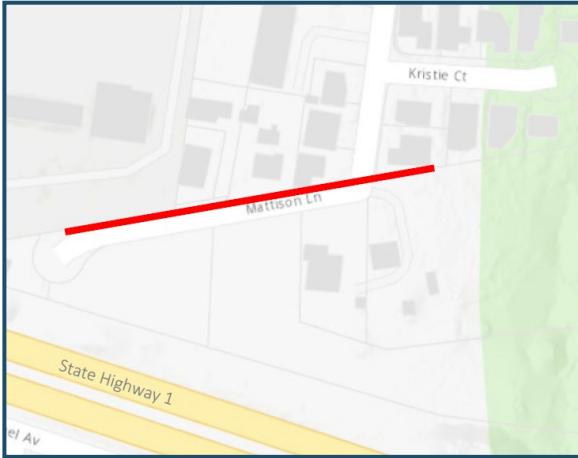
| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM IMPROVEMENTS | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2022/23—2023/24 |
| DESCRIPTION: | Variable Frequency Drive (VFD) replacements at D.A. Porath Pump Station. Due to long lead times for equipment deliveries, the VFD replacements will be completed in FY 2023/24. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 95,343 |

| FUNDING SOURCES | |
|-----------------------------------|------------------|
| District Funds | \$ 95,343 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 95,343 |
| Funding Not Yet Identified | \$ - |

2022 SEWER PIPE REPAIR PROJECT

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | SCCSD—WEST | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Replaced 1,040 ± linear feet of deteriorating gravity sewer mains and manholes that caused operational issues. The sewer lines were old, deteriorating and at the end of their design life. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 3,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 1,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 20,000 |
| Acquisition | \$ - |
| Construction | \$ 550,000 |
| Construction Management | \$ 45,000 |
| Construction Inspection | \$ 149,060 |
| Other | \$ 166,675 |
| Total Estimated Project Costs | \$ 934,735 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 934,735 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 934,735 |
| Funding Not Yet Identified | \$ - |

ARANA TRUNK LINE REPLACEMENT—PHASE 1

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace/rehabilitate 1,400± linear feet of sewer line. Line is old and deteriorating and in low lying areas. Besides replacing and rehabilitating the sewer lines, manholes are being raised above grade to keep surface water out. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 40,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 427,565 |
| Geotechnical | \$ 157,225 |
| Engineering Design | \$ 447,330 |
| Acquisition | \$ 214,705 |
| Construction | \$ 2,924,000 |
| Construction Management | \$ 40,000 |
| Construction Inspection | \$ 341,675 |
| Other | \$ 658,180 |
| Total Estimated Project Costs | \$ 5,250,680 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 1,150,680 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bonds) | \$ 4,100,000 |
| Total Project Funding | \$ 5,250,680 |
| Funding Not Yet Identified | \$ - |

CAPITOLA PUMP STATION PUMP REPLACEMENT

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



| | | | |
|----------------------|---|--------------------------------------|-----------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | CAPITOLA | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Replace three 75 HP aging pumps with Flygt pumps. The existing pumps were installed in 2006. The new Flygt pumps were purchased in FY 2020-21, and will be installed in 2023/24. The valves purchased in FY 2021-22 will be installed at this time as well. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction/Installation | \$ 350,000 |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 50,000 |
| Total Estimated Project Costs | \$ 400,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ - |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ - |
| Funding Not Yet Identified | \$ 400,000 |

D.A. PORATH PUMP STATION

ACCESS HATCHES

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------|
| PROJECT TYPE: | SYSTEM IMPROVEMENTS | PROJECT STATUS: | IN DESIGN |
| LOCATION: | D.A. PORATH PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Installation of two access hatches on the wet well at the D.A. Porath Pump Station and associated improvements. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ 80,000 |
| Acquisition | \$ - |
| Construction | \$ 260,000 |
| Construction Management | \$ 10,000 |
| Construction Inspection | \$ 75,000 |
| Other | \$ 83,460 |
| Total Estimated Project Costs | \$ 508,460 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 508,460 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 508,460 |
| Funding Not Yet Identified | \$ - |

EAST CLIFF DRIVE SEWER REPLACEMENT

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE & IMPROVED | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace 7,390 ± linear feet of sewer line that is old and deteriorating. This project also has a portion of work paid for by Measure D and Roads funds to rehabilitate the pavement and add green bike lanes (est. \$800,000). | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|----------------------|
| Land Survey | \$ 60,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 50,000 |
| Geotechnical | \$ 40,000 |
| Engineering Design | \$ 100,000 |
| Acquisition | \$ 25,000 |
| Construction | \$ 9,877,200 |
| Construction Management | \$ 100,000 |
| Construction Inspection | \$ 1,071,000 |
| Other | \$ 704,240 |
| Total Estimated Project Costs | \$ 12,027,440 |

| FUNDING SOURCES | |
|-----------------------------------|----------------------|
| District Funds | \$ 4,727,440 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bonds) | \$ 7,300,000 |
| Total Project Funding | \$ 12,027,440 |
| Funding Not Yet Identified | \$ - |

EAST CLIFF TRANSMISSION MAIN RELOCATION AT MURRAY STREET BRIDGE

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



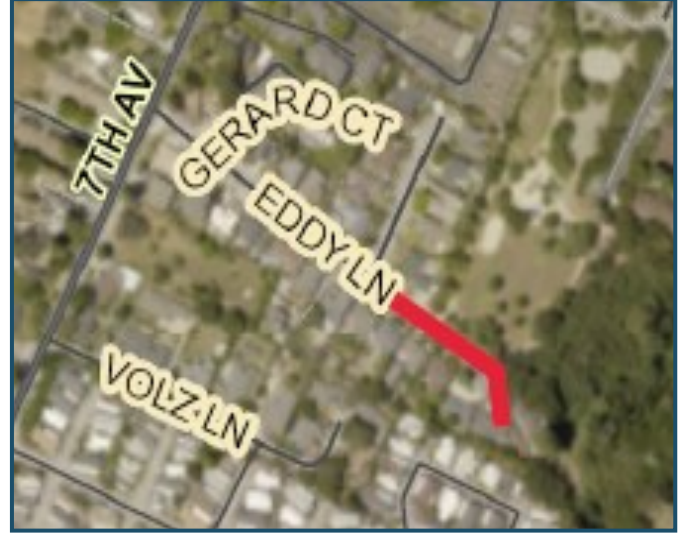
| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | AWARD PENDING |
| LOCATION: | CITY OF SANTA CRUZ | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2025/26 |
| DESCRIPTION: | Relocate approximately 700 linear feet of transmission main out of the harbor and attach to the bridge in coordination with the City of Santa Cruz’s Murray Street Bridge Project. Line is in a sensitive area and is near the end of its useful life. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 40,060 |
| Preliminary Design | \$ 105,850 |
| Environmental | \$ 17,070 |
| Geotechnical | \$ 38,880 |
| Engineering Design | \$ 721,780 |
| Acquisition | \$ - |
| Construction | \$ 6,000,000 |
| Construction Management | \$ 386,000 |
| Construction Inspection | \$ 1,000,000 |
| Other | \$ 1,283,100 |
| Total Estimated Project Costs | \$ 9,592,740 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 4,409,571 |
| Loans | \$ |
| | |
| | |
| | |
| Grants | \$ 5,183,169 |
| | |
| | |
| | |
| Other | \$ |
| Total Project Funding | \$ 9,592,740 |
| Funding Not Yet Identified | \$ |

EDDY LANE SEWER RELOCATION

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace 800± linear feet of deteriorating public gravity sewer mains and manholes located on Eddy Lane and private property. This portion of main is deteriorated and beyond its design life. The new sewer mains will be aligned to avoid the building foundation that is over the exiting sewer main. This project will serve to reduce the risk of sanitary sewer overflows in Leona Creek. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 10,000 |
| Preliminary Design | \$ |
| Environmental | \$ 5,000 |
| Geotechnical | \$ 30,000 |
| Engineering Design | \$ 50,000 |
| Acquisition/Appraisal | \$ 70,000 |
| Construction | \$ 820,000 |
| Construction Management | \$ 115,000 |
| Construction Inspection | \$ 260,000 |
| Other | \$ 286,460 |
| Total Estimated Project Costs | \$ 1,646,460 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 346,460 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bonds) | \$ |
| Total Project Funding | \$ 1,646,460 |
| Funding Not Yet Identified | \$ 1,300,000 |

FLUSH TRUCK FILL STATION

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | APTOS | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Construct a flush truck fill station that will utilize backwash from the Soquel Creek Water District injection well site at Twin Lakes Church; the project will serve to keep backwash water from the shallow, low-capacity sewer system in the area and provide an additional source for flushing water. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 10,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 2,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 35,000 |
| Acquisition | \$ - |
| Construction | \$ 376,475 |
| Construction Management | \$ 30,000 |
| Construction Inspection | \$ 70,000 |
| Other | \$ 82,825 |
| Total Estimated Project Costs | \$ 606,300 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 606,300 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 606,300 |
| Funding Not Yet Identified | \$ - |

GENERATOR PLUG AND MANUAL TRANSFER SWITCH UPGRADES 2023/24

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

PUMP STATION

DOLPHIN
RODEO

LOCATION

SUMNER AVENUE
1400 BLOCK OF RICHMOND DR



| | | | |
|----------------------|---|--------------------------------------|-------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Install generator plugs to add redundancy to onsite standby generators and install manual transfer switches for power shutoff at the pump stations. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|----------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 150,000 |
| Total Estimated Project Costs | \$ | 150,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|----------------|
| District Funds | \$ | 150,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 150,000 |
| Funding Not Yet Identified | \$ | - |

GENERATOR REPLACEMENT 2023/24

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

| PROJECT | LOCATION |
|-----------|---------------|
| MAR VISTA | 100 MAR VISTA |
| GROVE | 110 GROVE LN |



| | | | |
|----------------------|---|--------------------------------------|-----------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | MAR VISTA PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Replace existing onsite standby generators with new generators at the pump station. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 90,000 |
| Total Estimated Project Costs | \$ | 90,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 90,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 90,000 |
| Funding Not Yet Identified | \$ | - |

HIDDEN BEACH METER MAIN AND AUTOMATIC TRANSFER SWITCH

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

PUMP STATION

HIDDEN BEACH

LOCATION

770 CLIFF DRIVE



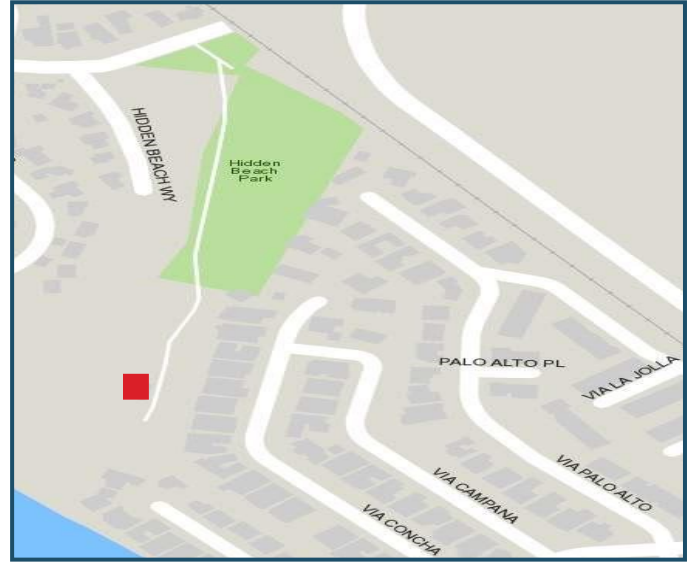
| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | HIDDEN BEACH PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace existing automatic transfer switch and meter main with new equipment. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ 50,000 |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 80,000 |
| Total Estimated Project Costs | \$ 140,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 140,000 |
| Loans | \$ - |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 140,000 |
| Funding Not Yet Identified | \$ - |

HIDDEN BEACH PUMP STATION BYPASS

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | HIDDEN BEACH, APTOS | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Install an external emergency bypass at the Hidden Beach Pump Station. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 5,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 2,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 20,000 |
| Acquisition | \$ - |
| Construction | \$ 500,000 |
| Construction Management | \$ 30,000 |
| Construction Inspection | \$ 100,000 |
| Other | \$ 145,300 |
| Total Estimated Project Costs | \$ 802,300 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 202,300 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 202,300 |
| Funding Not Yet Identified | \$ 600,000 |

LOWER RODEO TRUNKLINE REPLACEMENT

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPSIZE | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | TWIN LAKES | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace 1,100 ± linear feet of gravity sewer mains and manholes. The sewer line is undersized for the existing flows, therefore a moratorium is restricting new development. Completion of this project (along with the Rodeo Pump Station Capacity Upgrade and Upper Rodeo Gulch Trunkline & Soquel Bridge Sewer Replacement projects) will allow the District to lift a long-standing moratorium for the Rodeo Gulch Sewer Basin. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 20,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 30,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 63,000 |
| Acquisition/Appraisal | \$ 182,925 |
| Construction | \$ 1,404,565 |
| Construction Management | \$ 25,000 |
| Construction Inspection | \$ 297,075 |
| Other | \$ 349,400 |
| Total Estimated Project Costs | \$ 2,371,965 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 371,965 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bond) | \$ 2,000,000 |
| Total Project Funding | \$ 2,371,965 |
| Funding Not Yet Identified | \$ - |

MANUAL TRANSFER SWITCH INSTALLATION

2023/24

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

PUMP STATION

SOQUEL PUMP STATION

LOCATION

809 BAY AVE



| | | | |
|----------------------|---|--------------------------------------|-----------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | SOQUEL PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Install manual transfer switches at Soquel pump station to shutoff power to connect a portable generator. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 50,000 |
| Total Estimated Project Costs | \$ | 50,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 50,000 |
| Loans | \$ | - |
| | | |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 50,000 |
| Funding Not Yet Identified | \$ | - |

PLC UPGRADES 2023/24 — 2024/25

CAPITOLA
 DISTRICT 1
 DISTRICT 2
 CITY OF SANTA CRUZ

| PROJECT | LOCATION | EXISTING PLC MODEL |
|------------|--------------------|--------------------|
| ARANA | 2001 SOQUEL DRIVE | Compact Logix L23E |
| COURTSIDE | 7848 TANIAS COURT | MicroLogix 1500 |
| MAR VISTA | 100 MAR VISTA | MicroLogix 1500 |
| PINE KNOLL | 2546 CAPITOLA ROAD | MicroLogix 1500 |
| UPLANDS #1 | 102 ZANZIBAR DRIVE | MicroLogix 1500 |
| UPLANDS #2 | 162 ZANZIBAR DRIVE | MicroLogix 1500 |
| UPLANDS #3 | 144 CASTILLO COURT | MicroLogix 1500 |

| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENACE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Replace and upgrade older Programmable Logic Controllers (PLCs) at nine pump stations. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 350,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 350,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 350,000 |
| Funding Not Yet Identified | \$ - |

RODEO PUMP STATION CAPACITY UPGRADE

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



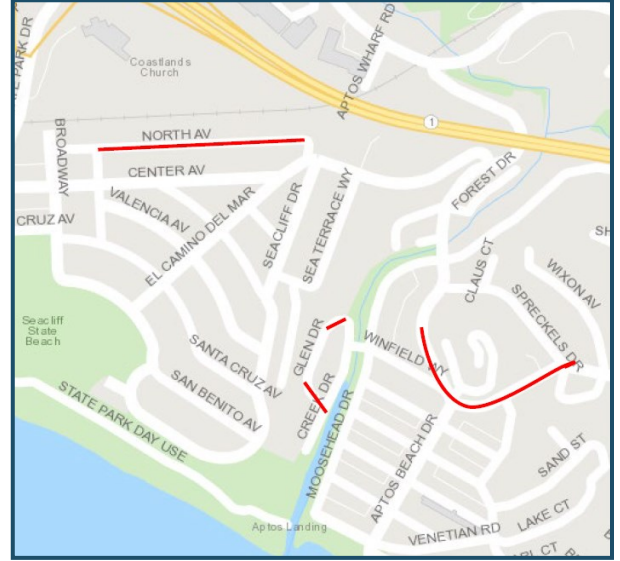
| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Construct an auxiliary wet well for additional storage of current and projected sewer flows during wet weather storm events. Completion of this project (along with the Lower Rodeo Trunkline Replacement and Upper Rodeo Gulch Trunkline & Soquel Bridge Sewer Replacement projects) will allow the District to lift a long-standing moratorium for the Rodeo Gulch Sewer Basin. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 15,000 |
| Preliminary Design | \$ 87,500 |
| Environmental | \$ 5,000 |
| Geotechnical | \$ 51,600 |
| Engineering Design | \$ 330,900 |
| Acquisition | \$ - |
| Construction | \$ 2,000,000 |
| Construction Management | \$ 25,000 |
| Construction Inspection | \$ 300,000 |
| Other | \$ 452,600 |
| Total Estimated Project Costs | \$ 3,267,600 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 1,467,600 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bonds) | \$ 1,800,000 |
| Total Project Funding | \$ 3,267,600 |
| Funding Not Yet Identified | \$ - |

SEACLIFF/RIO DEL MAR SEWER REHABILITATION

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | SEACLIFF AND RIO DEL MAR | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Rehabilitate 2,300± linear feet of sewer mains that are old and deteriorating. A portion of this project may be completed using Job Order Contracting. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 20,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 5,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 30,000 |
| Acquisition | \$ 60,000 |
| Construction | \$ 2,500,000 |
| Construction Management | \$ 50,000 |
| Construction Inspection | \$ 200,000 |
| Other | \$ 528,370 |
| Total Estimated Project Costs | \$ 3,393,370 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 693,370 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 693,370 |
| Funding Not Yet Identified | \$ 2,700,000 |

UPPER RODEO GULCH TRUNKLINE AND SOQUEL BRIDGE SEWER REPLACEMENT

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE/ INCREASE CAPACITY | PROJECT STATUS: | AWARDED |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2023/24—2024/25 |
| DESCRIPTION: | Line 4,900± linear feet of sewer line and replace 450± feet of sewer line. Lines are deteriorating and allow for ground water infiltration that cause the sewer mains to operate over capacity. Pipe under bridge has lost some of its supports and is an exposed asbestos cement pipe. Completion of this project (along with the Lower Rodeo Trunkline Replacement and Rodeo Pump Station Capacity Upgrade projects) will allow the District to lift a long-standing moratorium for the Rodeo Gulch Sewer Basin. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 45,000 |
| Preliminary Design | \$ 109,000 |
| Environmental | \$ 340,000 |
| Geotechnical | \$ 80,000 |
| Engineering Design | \$ 352,940 |
| Acquisition/Appraisal | \$ 223,000 |
| Construction | \$ 5,176,355 |
| Construction Management | \$ 67,000 |
| Construction Inspection | \$ 800,375 |
| Other | \$ 1,023,270 |
| Total Estimated Project Costs | \$ 8,216,940 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 866,940 |
| Loans | \$ - |
| Grants | \$ - |
| Other (Bonds) | \$ 4,700,000 |
| Total Project Funding | \$ 5,566,940 |
| Funding Not Yet Identified | \$ 2,650,000 |

UPS UPGRADES 2023/24

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PUMP STATION | LOCATION | UPS MODEL |
|-----------------|------------------------|-----------------------|
| APTOS ESPLANADE | 104 MARINA AVE | MARATHON VTWE-0700-01 |
| D.A. PORATH | 2750 LODE ST | MARATHON VTWE-0700-01 |
| DOLPHIN | SUMNER AVE | MARATHON VTWE-0700-01 |
| HIDDEN BEACH | 770 CLIFF DR | MARATHON VTWE-0700-01 |
| SCHWAN LAKE | EAST CLIFF AND 7TH AVE | MARATHON VTWE-0700-01 |
| SOQUEL | 809 BAY AVE | MARATHON VTWE-0700-01 |



| | | | |
|----------------------|---|--------------------------------------|-------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Install Smart UPS at various pump stations to monitor on SCADA. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 40,000 |
| Total Estimated Project Costs | \$ 40,000 |

| FUNDING SOURCES | |
|-----------------------------------|------------------|
| District Funds | \$ 40,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 40,000 |
| Funding Not Yet Identified | \$ - |

VALENCIA CREEK SEWER RELOCATION

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN CONSTRUCTION |
| LOCATION: | APTOS | ESTIMATED CONSTRUCTION YEARS: | 2023/24 |
| DESCRIPTION: | Replace 730+ linear feet of 10-inch pipeline beneath Highway 1, east of the existing 10-inch sewer main and away from Valencia Creek. Replace a temporary repair. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 20,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 100,000 |
| Geotechnical | \$ 50,000 |
| Engineering Design | \$ 250,000 |
| Acquisition | \$ 222,580 |
| Construction | \$ 2,364,837 |
| Construction Management | \$ 181,000 |
| Construction Inspection | \$ 351,725 |
| Other | \$ 615,358 |
| Total Estimated Project Costs | \$ 4,155,500 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 890,280 |
| Loans | \$ 2,154,000 |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 3,044,280 |
| Funding Not Yet Identified | \$ 1,111,220 |

ACCESS HATCH AT MORAN PUMP STATION

CAPITOLA

DISTRICT 1

DISTRICT 2

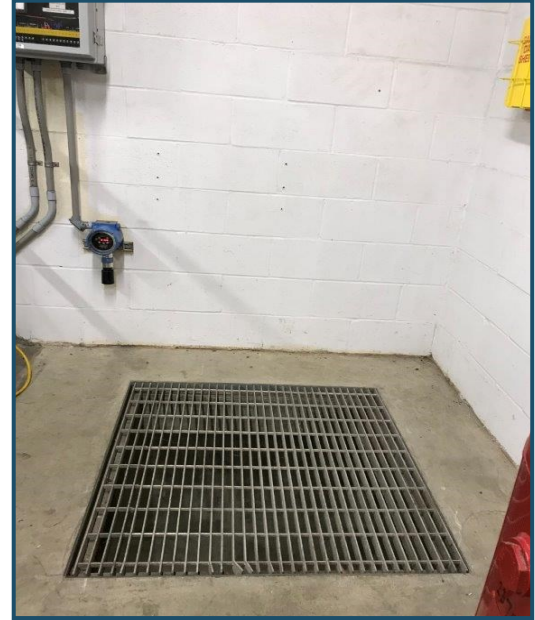
CITY OF SANTA CRUZ

PUMP STATION

MORAN

LOCATION

2750 LODE ST



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | MORAN PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Replace existing grate with a double leaf hatch to pull pumps from lower level. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 75,000 |
| Total Estimated Project Costs | \$ | 75,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 75,000 |
| Loans | \$ | - |
| Grants | \$ | - |
| Other | \$ | - |
| Total Project Funding | \$ | 75,000 |
| Funding Not Yet Identified | \$ | - |

CAPITOLA PUMP STATION ROOF/DRAINAGE IMPROVEMENTS

CAPITOLA
 DISTRICT 1
 DISTRICT 2
 CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | FACILITY UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | CAPITOLA | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Replace the existing roof and improve the drainage in the rear of the Capitola Pump Station building to eliminate standing water during rain events. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ |
| Preliminary Design | \$ 40,000 |
| Environmental | \$ 10,000 |
| Geotechnical | \$ |
| Engineering Design | \$ 50,000 |
| Acquisition | \$ |
| Construction/Installation | \$ 150,000 |
| Construction Management | \$ 60,000 |
| Construction Inspection | \$ 70,000 |
| Other | \$ 20,000 |
| Total Estimated Project Costs | \$ 400,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ |
| Loans | \$ |
| | |
| | |
| Grants | \$ |
| | |
| | |
| Other | \$ |
| Total Project Funding | \$ |
| Funding Not Yet Identified | \$ 400,000 |

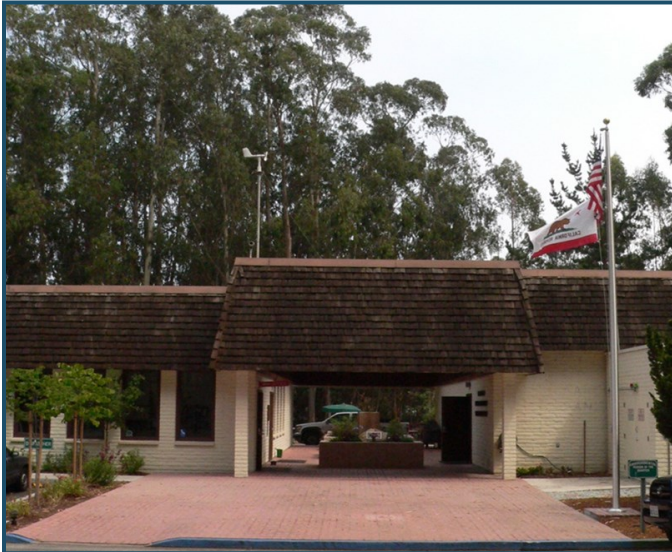
D.A. PORATH VALVE REPLACEMENT AND EMERGENCY BYPASS

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------|
| PROJECT TYPE: | SYSTEM IMPROVEMENTS | PROJECT STATUS: | IN DESIGN |
| LOCATION: | D.A. PORATH PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | The existing gate valve on the force main leaving the station is deteriorated and will be replaced. Improvements to install an emergency bypass will be installed as part of the project and used to facilitate the valve replacement. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 7,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 7,000 |
| Geotechnical | \$ 35,000 |
| Engineering Design | \$ 70,000 |
| Acquisition | \$ - |
| Construction | \$ 1,000,000 |
| Construction Management | \$ 40,000 |
| Construction Inspection | \$ 175,000 |
| Other | \$ 281,900 |
| Total Estimated Project Costs | \$ 1,615,900 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 315,900 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 315,900 |
| Funding Not Yet Identified | \$ 1,300,000 |

EMERGENCY BYPASS IMPROVEMENTS 2024/25

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PUMP STATION | LOCATION |
|--------------|------------------|
| CAPITOLA | 110 MONTEREY AVE |
| SOQUEL | 809 BAY AVE |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Improve valve vault access and extend connections to bypass valves for quick install of emergency bypass equipment for Capitola and Soquel pump stations. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|----------------|
| Land Survey | \$ | 25,000 |
| Preliminary Design | \$ | 12,000 |
| Environmental | \$ | 20,000 |
| Geotechnical | \$ | - |
| Engineering Design | \$ | 150,000 |
| Acquisition | \$ | 160,000 |
| Construction | \$ | 100,000 |
| Construction Management | \$ | 30,000 |
| Construction Inspection | \$ | 100,000 |
| Other | \$ | 109,400 |
| Total Estimated Project Costs | \$ | 706,400 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|----------------|
| District Funds | \$ | 100,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 100,000 |
| Funding Not Yet Identified | \$ | 606,400 |

GENERATOR PLUG AND MANUAL TRANSFER SWITCH UPGRADES 2024/25

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

| PUMP STATION | LOCATION |
|---------------|---------------------|
| BROMMER | 960 BROMMER ST |
| MORAN | 2750 LODE ST |
| SPRECKLES | 211 FOREST DR |
| TANNERY GULCH | 181 NEW BRIGHTON RD |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Install generator plugs to add redundancy to onsite standby generators and install manual transfer switches for power shutoff at the pump stations. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|----------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 240,000 |
| Total Estimated Project Costs | \$ | 240,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|----------------|
| District Funds | \$ | 240,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 240,000 |
| Funding Not Yet Identified | \$ | - |

GENERATOR REPLACEMENT 2024/25

CAPITOLA
 DISTRICT 1
 DISTRICT 2
 CITY OF SANTA CRUZ

| PROJECT | LOCATION |
|---------|----------------|
| GROVE | 110 GROVE LANE |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | GROVE LANE PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Replace existing onsite standby generator with a new generator. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 60,000 |
| Total Estimated Project Costs | \$ | 60,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 60,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 60,000 |
| Funding Not Yet Identified | \$ | - |

MAIN STREET SEWER

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | SEWER ABANDONMENT | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | SOQUEL VILLAGE | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Abandon 970± linear feet of deteriorated sewer main and route connected laterals to adjacent parallel sewer main. This project may be completed using Job Order Contracting. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ 1,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 8,000 |
| Acquisition | \$ - |
| Construction | \$ 200,000 |
| Construction Management | \$ 10,000 |
| Construction Inspection | \$ 25,000 |
| Other | \$ 65,100 |
| Total Estimated Project Costs | \$ 309,100 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ - |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ - |
| Funding Not Yet Identified | \$ 309,100 |

PLC UPGRADES 2024/25

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

| PROJECT | LOCATION | PLC MODEL |
|--------------------------------------|--------------------|--------------------|
| APTOS ESPLANADE | 104 MARINA AVENUE | Compact Logix L23E |
| APTOS ESPLANADE REPEATER & GENERATOR | 104 MARINA AVENUE | DeviceNet |
| D.A PORATH GENERATOR | 2750 LODE STREET | MicroLogix 1400 |
| HIDDEN BEACH GENERATOR | 770 CLIFF DRIVE | MicroLogix 1400 |
| VIA PALO ALTO | 1096 VIA PALO ALTO | Compact Logix L23E |



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Replace and upgrade older Programmable Logic Controllers (PLCs) at five locations in the District. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 250,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| P53357 PLC Upgrades | \$ 250,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 250,000 |
| Funding Not Yet Identified | \$ - |

SOQUEL VILLAGE SEWER REHABILITATION PHASE 2

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | SOQUEL VILLAGE | ESTIMATED CONSTRUCTION YEARS: | 2024/25—2025/26 |
| DESCRIPTION: | Rehabilitate 6,650± linear feet of deteriorating sewer mains and associated manholes. The sewer lines and manholes are old, deteriorating, and at the end of their design life. A portion of this project may be completed using Job Order Contracting. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 50,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 2,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 80,000 |
| Acquisition | \$ 80,000 |
| Construction | \$ 6,517,500 |
| Construction Management | \$ 100,000 |
| Construction Inspection | \$ 800,000 |
| Other | \$ 1,193,100 |
| Total Estimated Project Costs | \$ 8,822,600 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 82,600 |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other (Bonds) | \$ - |
| Total Project Funding | \$ 82,600 |
| Funding Not Yet Identified | \$ 8,740,000 |

UPS UPGRADES 2024/25—STAGE 1

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PUMP STATION | LOCATION | UPS MODEL |
|--------------|----------------------|-----------------------|
| A1 | 201 STATE PARK DRIVE | MARATHON VTWE-0700-01 |
| ARANA | 2201 SOQUEL DR | MARATHON VTWE-0700-01 |
| CHAMINADE | 3700 PAUL SWEET RD | MARATHON VTWE-0700-01 |
| COURTSIDE | 7848 TANIAS CT | MARATHON VTWE-0700-01 |
| SEACLIFF | 837 SEACLIFF DR | MARATHON VTWE-0700-01 |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Install Smart UPS at various pump stations to monitor on SCADA. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|---------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 50,000 |
| Total Estimated Project Costs | \$ | 50,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|---------------|
| District Funds | \$ | 50,000 |
| Loans | \$ | - |
| | | |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 50,000 |
| Funding Not Yet Identified | \$ | - |

UPS UPGRADES 2024/25 –STAGE 2

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |

| PUMP STATION | LOCATION | UPS MODEL |
|--------------|------------------|------------------|
| A-3 | 440 BEACH DR | SMART UPS DR 500 |
| CHERYL | 1829 CHERYL WAY | SMART UPS DR 500 |
| MAR VISTA | 100 MAR VISTA | SMART UPS DR 500 |
| PINE KNOLL | 2546 CAPITOLA RD | SMART UPS DR 500 |
| UPLANDS 1 | 102 ZANZIBAR | SMART UPS DR 500 |
| UPLANDS 2 | 162 ZANZIBAR | SMART UPS DR 500 |
| UPLANDS 3 | 1096 CASTILLO CT | SMART UPS DR 500 |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Install Smart UPS at various pump stations to monitor battery power on SCADA. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 65,000 |
| Total Estimated Project Costs | \$ 65,000 |

| FUNDING SOURCES | |
|-----------------------------------|------------------|
| District Funds | \$ 65,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 65,000 |
| Funding Not Yet Identified | \$ - |

VFD REPLACEMENTS 2024/25

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-------------|
| PROJECT TYPE: | SYSTEM IMPROVEMENTS | PROJECT STATUS: | IN PROGRESS |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2024/25 |
| DESCRIPTION: | Variable Frequency Drive (VFD) will be replaced with soft starts at 15th Avenue Pump Station and Arana Pump Station. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ - |
| Total Estimated Project Costs | \$ 75,000 |

| FUNDING SOURCES | |
|-----------------------------------|------------------|
| District Funds | \$ 75,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 75,000 |
| Funding Not Yet Identified | \$ - |

WEST SEACLIFF SEWER REHABILITATION

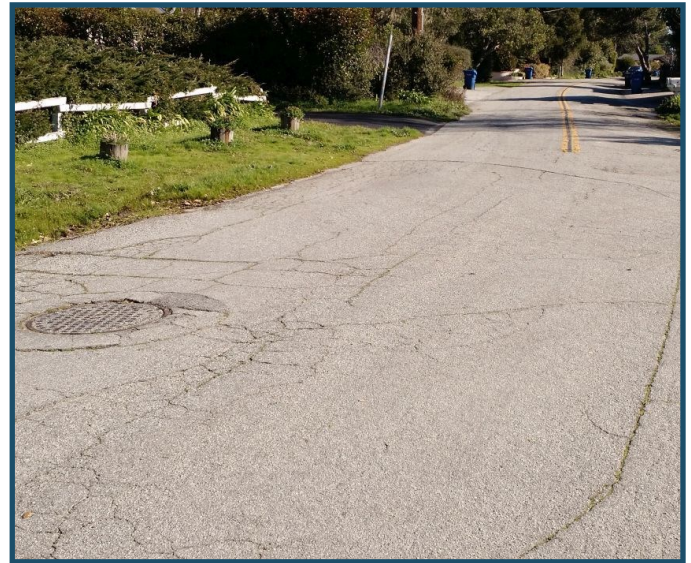
PHASE 1

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|---|--------------------------------------|-----------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | APTOS | ESTIMATED CONSTRUCTION YEARS: | 2024/25—2025/26 |
| DESCRIPTION: | Replace or repair 5,000± linear feet of deteriorating gravity sewer mains and manholes located throughout the west Seacliff area. The sewer lines are old, deteriorating and at the end of their design life. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 100,000 |
| Preliminary Design | \$ |
| Environmental | \$ 30,000 |
| Geotechnical | \$ |
| Engineering Design | \$ 80,000 |
| Acquisition | \$ 40,000 |
| Construction | \$ 6,350,000 |
| Construction Management | \$ 100,000 |
| Construction Inspection | \$ 800,000 |
| Other | \$ 1,270,000 |
| Total Estimated Project Costs | \$ 8,870,000 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 200,000 |
| Loans | \$ - |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 200,000 |
| Funding Not Yet Identified | \$ 8,670,000 |

ACCESS HATCH AT SCHWAN LAKE PUMP STATION

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

PUMP STATION

SCHWAN LAKE

LOCATION

E. CLIFF AND 7TH AVE



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | SCHWAN LAKE PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2025/26 |
| DESCRIPTION: | Install a double leaf hatch for access over wet well for improved maintenance. | | |

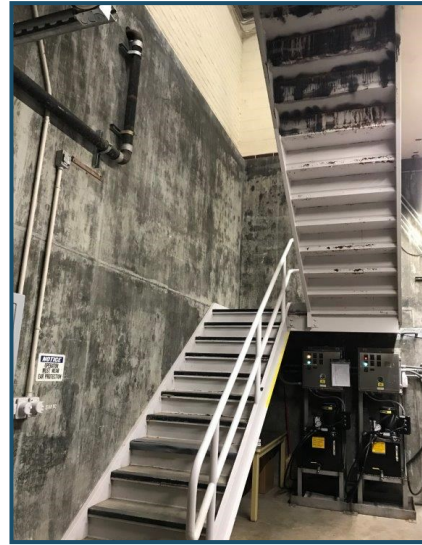
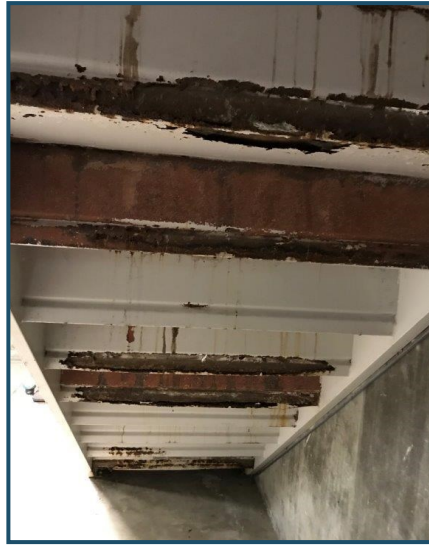
| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ 5,000 |
| Environmental | \$ 5,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 10,000 |
| Acquisition | \$ - |
| Construction | \$ 140,000 |
| Construction Management | \$ 10,000 |
| Construction Inspection | \$ 60,000 |
| Other | \$ 46,080 |
| Total Estimated Project Costs | \$ 276,080 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 276,080 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 276,080 |
| Funding Not Yet Identified | \$ - |

CONCRETE STAIRS REHABILITATION

CAPITOLA
 DISTRICT 1
 DISTRICT 2
 CITY OF SANTA CRUZ

| PUMP STATION | LOCATION |
|--------------|----------------|
| BROMMER | 960 BROMMER ST |
| D.A. PORATH | 2750 LODE ST |
| MORAN | 2750 LODE ST |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2025/26 |
| DESCRIPTION: | Existing concrete stairs' steel supports and threads are rusted and require rehabilitation at Brommer, D.A. Porath and Moran pump stations. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ 20,000 |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ 80,000 |
| Acquisition | \$ - |
| Construction | \$ 200,000 |
| Construction Management | \$ 20,000 |
| Construction Inspection | \$ 80,000 |
| Other | \$ 75,000 |
| Total Estimated Project Costs | \$ 475,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 475,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 475,000 |
| Funding Not Yet Identified | \$ - |

D.A. PORATH FACILITY IMPROVEMENTS

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|-----------------|
| PROJECT TYPE: | FACILITY UPGRADE | PROJECT STATUS: | IN DESIGN |
| LOCATION: | LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2025/26—2026/27 |
| DESCRIPTION: | Renovation and expansion of the existing Operations building within the existing building footprint. Administration and shop areas will be consolidated in the new building. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|----------------------|
| Land Survey | \$ 25,000 |
| Preliminary Design | \$ 255,840 |
| Environmental | \$ 225,000 |
| Geotechnical | \$ 40,000 |
| Engineering Design | \$ 1,840,000 |
| Swing Space | \$ 150,000 |
| Construction | \$ 20,200,000 |
| Construction Management | \$ 200,000 |
| Construction Inspection | \$ 1,000,000 |
| Other | \$ 3,305,400 |
| Total Estimated Project Costs | \$ 27,241,240 |

| FUNDING SOURCES | |
|-----------------------------------|----------------------|
| District Funds | \$ 3,300,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 3,300,000 |
| Funding Not Yet Identified | \$ 23,941,240 |

EAST CLIFF TRANSMISSION MAIN INSPECTION

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input type="checkbox"/> |
| CITY OF SANTA CRUZ | <input checked="" type="checkbox"/> |



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | CITY OF SANTA CRUZ & LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2025/26 |
| DESCRIPTION: | The force main from the D.A Porath Facility to the City of Santa Cruz was inspected by Pure Technologies in 2014. The District plans to inspect the force main every 10 years. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 200,000 |
| Total Estimated Project Costs | \$ 200,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 200,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 200,000 |
| Funding Not Yet Identified | \$ - |

GENERATOR REPLACEMENT 2025/26

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ

| PROJECT | LOCATION |
|---------------|--------------------|
| VIA PALO ALTO | 1096 VIA PALO ALTO |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VIA PALO ALTO PUMP STATION | ESTIMATED CONSTRUCTION YEARS: | 2025/26 |
| DESCRIPTION: | Replace existing onsite standby generator with a new generator. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|------------------|
| Land Survey | \$ - |
| Preliminary Design | \$ - |
| Environmental | \$ - |
| Geotechnical | \$ - |
| Engineering Design | \$ - |
| Acquisition | \$ - |
| Construction | \$ - |
| Construction Management | \$ - |
| Construction Inspection | \$ - |
| Other | \$ 65,000 |
| Total Estimated Project Costs | \$ 65,000 |

| FUNDING SOURCES | |
|-----------------------------------|------------------|
| District Funds | \$ 65,000 |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 65,000 |
| Funding Not Yet Identified | \$ - |

MANUAL TRANSFER SWITCH INSTALLATION

2025/26

CAPITOLA

DISTRICT 1

DISTRICT 2

CITY OF SANTA CRUZ

| PUMP STATION | LOCATION |
|-----------------|----------------|
| APTOS ESPLANADE | 104 MARINA AVE |
| ARANA | 2201 SOQUEL DR |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | OPERATIONS AND MAINTENANCE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | VARIOUS LOCATIONS | ESTIMATED CONSTRUCTION YEARS: | 2025/26 |
| DESCRIPTION: | Install manual transfer switches at Aptos Esplanade and Arana pump stations to shutoff power to connect a portable generator. | | |

| ESTIMATED PROJECT COSTS | | |
|--------------------------------------|-----------|----------------|
| Land Survey | \$ | - |
| Preliminary Design | \$ | - |
| Environmental | \$ | - |
| Geotechnical | \$ | - |
| Engineering Design | \$ | - |
| Acquisition | \$ | - |
| Construction | \$ | - |
| Construction Management | \$ | - |
| Construction Inspection | \$ | - |
| Other | \$ | 160,000 |
| Total Estimated Project Costs | \$ | 160,000 |

| FUNDING SOURCES | | |
|-----------------------------------|-----------|----------------|
| District Funds | \$ | 160,000 |
| Loans | \$ | - |
| | | |
| | | |
| Grants | \$ | - |
| | | |
| | | |
| Other | \$ | - |
| Total Project Funding | \$ | 160,000 |
| Funding Not Yet Identified | \$ | - |

2027 SEWER PIPE REHABILITATION

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input checked="" type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



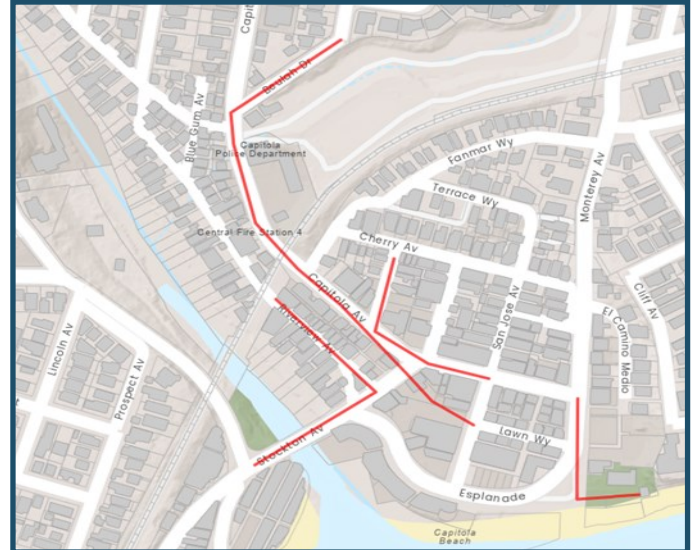
| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | DISTRICT WIDE | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Rehabilitate sewer mains and manholes identified by video assessment as critical to repair. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 30,000 |
| Preliminary Design | \$ 0 |
| Environmental | \$ 50,000 |
| Geotechnical | \$ |
| Engineering Design | \$ 50,000 |
| Acquisition | \$ 150,000 |
| Construction | \$ 3,060,000 |
| Construction Management | \$ 50,000 |
| Construction Inspection | \$ 400,000 |
| Other | \$ 662,400 |
| Total Estimated Project Costs | \$ 4,452,400 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 100,000 |
| Loans | \$ - |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 100,000 |
| Funding Not Yet Identified | \$ 4,352,400 |

CAPITOLA VILLAGE SEWER REHABILITATION—PHASE 1

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | CAPITOLA VILLAGE | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Rehabilitate 3,500± linear feet of deteriorating sewer mains. Perform pre-design flow monitoring to determine if some sewer mains are undersized as indicated by 2019 regional flow monitoring. Upsize required sewer mains if required. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 20,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 50,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 50,000 |
| Acquisition | \$ 60,000 |
| Construction | \$ 3,900,000 |
| Construction Management | \$ 50,000 |
| Construction Inspection | \$ 400,000 |
| Other | \$ 771,000 |
| Total Estimated Project Costs | \$ 5,301,000 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 170,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 170,000 |
| Funding Not Yet Identified | \$ 5,131,000 |

EAST CLIFF TRANSMISSION MAIN REPAIRS

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | ASSET MANAGEMENT | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | CITY OF SANTA CRUZ & LIVE OAK | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Complete repairs identified in the 2025/26 inspection of the force main. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|-------------------|
| Land Survey | \$ 10,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 10,000 |
| Geotechnical | \$ 40,000 |
| Engineering Design | \$ 60,000 |
| Acquisition | \$ - |
| Construction | \$ 470,000 |
| Construction Management | \$ 60,000 |
| Construction Inspection | \$ 140,000 |
| Other | \$ 110,000 |
| Total Estimated Project Costs | \$ 900,000 |

| FUNDING SOURCES | |
|-----------------------------------|-------------------|
| District Funds | \$ 900,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 900,000 |
| Funding Not Yet Identified | \$ - |

RIO DEL MAR SEWER REHABILITATION—PHASE 2

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



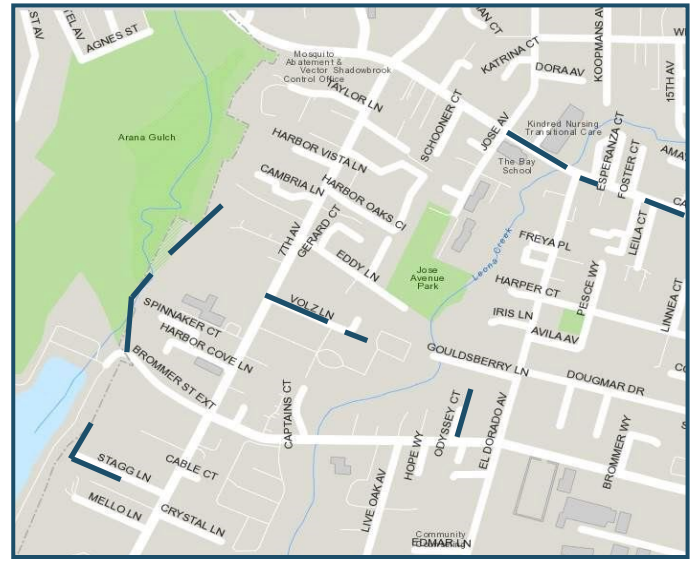
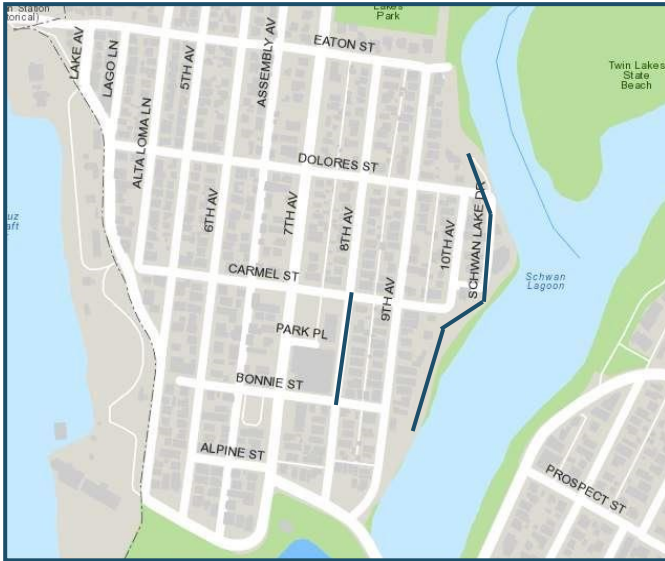
| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | RIO DEL MAR | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Rehabilitate 7,100± linear feet of sewer mains that often become clogged with roots, which required frequent maintenance and can lead to sewer overflows. This project will eliminate the need for Smart Cover monitoring on two manholes. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|----------------------|
| Land Survey | \$ 60,000 |
| Preliminary Design | \$ 0 |
| Environmental | \$ 150,000 |
| Geotechnical | \$ |
| Engineering Design | \$ 80,000 |
| Acquisition | \$ 300,000 |
| Construction | \$ 7,800,000 |
| Construction Management | \$ 100,000 |
| Construction Inspection | \$ 800,000 |
| Other | \$ 1,394,600 |
| Total Estimated Project Costs | \$ 10,684,600 |

| FUNDING SOURCES | |
|-----------------------------------|----------------------|
| District Funds | \$ 90,000 |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 90,000 |
| Funding Not Yet Identified | \$ 10,594,600 |

SANTA CRUZ HARBOR AREA SEWER REHABILITATION—PHASE 2

- CAPITOLA
- DISTRICT 1
- DISTRICT 2
- CITY OF SANTA CRUZ



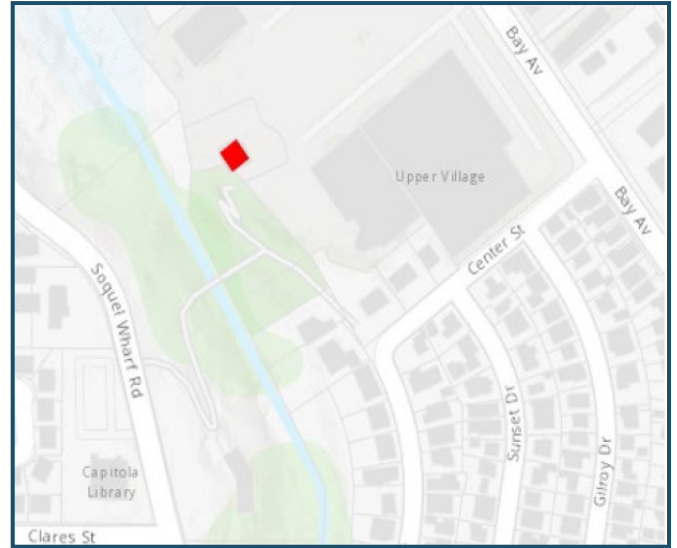
| | | | |
|----------------------|--|--------------------------------------|---------------|
| PROJECT TYPE: | SYSTEM UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | TWIN LAKES | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Replace or repair 4,400± linear feet of deteriorating gravity sewer mains and manholes located throughout the east Santa Cruz Harbor area. The sewer lines are old, deteriorating and at the end of their design life. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 30,000 |
| Preliminary Design | \$ - |
| Environmental | \$ 70,000 |
| Geotechnical | \$ - |
| Engineering Design | \$ 60,000 |
| Acquisition | \$ 150,000 |
| Construction | \$ 4,840,000 |
| Construction Management | \$ 80,000 |
| Construction Inspection | \$ 400,000 |
| Other | \$ 926,900 |
| Total Estimated Project Costs | \$ 6,556,900 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 100,000 |
| Loans | \$ - |
| Grants | \$ - |
| Other | \$ - |
| Total Project Funding | \$ 100,000 |
| Funding Not Yet Identified | \$ 6,456,900 |

SOQUEL PUMP STATION AUXILIARY WET WELL

| | |
|--------------------|-------------------------------------|
| CAPITOLA | <input checked="" type="checkbox"/> |
| DISTRICT 1 | <input type="checkbox"/> |
| DISTRICT 2 | <input checked="" type="checkbox"/> |
| CITY OF SANTA CRUZ | <input type="checkbox"/> |



| | | | |
|----------------------|---|--------------------------------------|---------------|
| PROJECT TYPE: | CAPACITY UPGRADE | PROJECT STATUS: | FUTURE DESIGN |
| LOCATION: | CAPITOLA | ESTIMATED CONSTRUCTION YEARS: | 2026/27 |
| DESCRIPTION: | Construct and auxiliary wet well at the existing Soquel Pump Station to increase holding capacity which will reduce the probability of the existing wet wells overtopping during system failures and other emergencies. | | |

| ESTIMATED PROJECT COSTS | |
|--------------------------------------|---------------------|
| Land Survey | \$ 15,000 |
| Preliminary Design | \$ |
| Environmental | \$ 20,000 |
| Geotechnical | \$ 60,000 |
| Engineering Design | \$ 420,000 |
| Acquisition | \$ 100,000 |
| Construction | \$ 2,100,000 |
| Construction Management | \$ 3,000 |
| Construction Inspection | \$ 350,000 |
| Other | \$ 497,100 |
| Total Estimated Project Costs | \$ 3,565,100 |

| FUNDING SOURCES | |
|-----------------------------------|---------------------|
| District Funds | \$ 100,000 |
| Loans | \$ - |
| | |
| | |
| | |
| Grants | \$ - |
| | |
| | |
| | |
| Other | \$ - |
| Total Project Funding | \$ 100,000 |
| Funding Not Yet Identified | \$ 3,465,100 |

**SANTA CRUZ COUNTY
SANITATION DISTRICT**



**UNPROGRAMMED
PROJECTS**



**CAPITAL IMPROVEMENT
PROGRAM**

**FISCAL YEARS
2024-2028**

UNPROGRAMMED PROJECTS 2028/29+

| DESCRIPTION | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | ESTIMATED COST | 2028/29 ESTIMATED COST | 2033/34 ESTIMATED COST |
|--|----------|------------|------------|------------|----------------|------------------------|------------------------|
| 38TH AVENUE AREA SEWER REHABILITATION | X | X | | | \$ 4,420,000 | \$ 5,377,606 | \$ 6,542,680 |
| 41ST AND CAPITOLA ROAD AREA SEWER REHABILITATION | X | X | | | \$ 8,840,000 | \$ 10,755,212 | \$ 13,085,359 |
| 42ND AVENUE SEWER REPLACEMENT—CLARES STREET TO CAPITOLA ROAD | X | X | | | \$ 1,616,000 | \$ 1,966,111 | \$ 2,392,075 |
| ARANA GULCH SEWER REHABILITATION—PH 2 | | X | | | \$ 2,190,000 | \$ 2,664,470 | \$ 3,241,735 |
| ARANA GULCH SOUTH SEWER REHABILITATION | | X | | | \$ 4,000,000 | \$ 4,866,612 | \$ 5,920,977 |
| ARANA PUMP STATION REHABILITATION | | X | | | \$ 6,070,000 | \$ 7,385,083 | \$ 8,985,083 |
| BEACH DRIVE SEWER REHABILITATION | | | X | | \$ 10,180,000 | \$ 12,385,527 | \$ 15,068,887 |
| BORREGAS GULCH TRUNKLINE REPLACEMENT—PH 2 | | | X | | \$ 4,080,000 | \$ 4,963,944 | \$ 6,039,397 |
| BORREGAS GULCH TRUNKLINE REPLACEMENT—PH 3 | | | X | | \$ 4,160,000 | \$ 5,061,276 | \$ 6,157,816 |
| CAPITOLA ROAD EXTENSION SEWER REPLACEMENT | X | | X | | \$ 1,120,000 | \$ 1,362,651 | \$ 1,657,874 |
| CAPITOLA VILLAGE SEWER REHABILITATION - PH 2 | X | | X | | \$ 5,200,000 | \$ 6,326,595 | \$ 7,697,270 |
| CAPITOLA VILLAGE SEWER REHABILITATION - PH 3 | X | | X | | \$ 8,600,000 | \$ 10,463,215 | \$ 12,730,101 |
| COASTVIEW DRIVE SEWER LINE REPLACEMENT | | X | | | \$ 3,232,000 | \$ 3,932,222 | \$ 4,784,150 |

UNPROGRAMMED PROJECTS 2028/29+

| DESCRIPTION | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | ESTIMATED COST | | 2028/29 ESTIMATED COST | | 2033/34 ESTIMATED COST | |
|--|----------|------------|------------|------------|----------------|------------|------------------------|------------|------------------------|------------|
| | | | | | | | | | | |
| HILL STREET/CAPITOLA AVENUE AREA SEWER REPLACEMENT | X | | X | | \$ | 704,000 | \$ | 856,524 | \$ | 1,042,092 |
| LIVE OAK SEWER REHABILITATION — PH 1 | | X | | | \$ | 4,820,000 | \$ | 5,864,267 | \$ | 7,134,777 |
| LIVE OAK SEWER REHABILITATION — PH 2 | | X | | | \$ | 8,000,000 | \$ | 9,733,223 | \$ | 11,841,954 |
| MORAN TRANSMISSION MAIN REPLACEMENT | | X | | | \$ | 1,320,000 | \$ | 1,605,982 | \$ | 1,953,922 |
| OPAL CLIFF DRIVE SEWER REPLACEMENT | | X | | | \$ | 2,112,000 | \$ | 2,569,571 | \$ | 3,126,276 |
| PAUL SWEET ROAD SEWER RELOCATION | | X | | | \$ | 2,112,000 | \$ | 2,569,571 | \$ | 3,126,276 |
| PORTOLA DRIVE SEWER REPLACEMENT 26 TH AVENUE TO 49 TH AVENUE | | X | | | \$ | 6,216,000 | \$ | 7,562,714 | \$ | 9,201,198 |
| REHABILITATION OF SEWERS ON ROOT CONTROL—PH1 | X | X | X | | \$ | 6,400,000 | \$ | 7,786,579 | \$ | 9,473,563 |
| REHABILITATION OF SEWERS ON ROOT CONTROL—PH2 | X | X | X | | \$ | 6,400,000 | \$ | 7,786,579 | \$ | 9,473,563 |
| REHABILITATION OF SEWERS ON ROOT CONTROL—PH3 | X | X | X | | \$ | 6,400,000 | \$ | 7,786,579 | \$ | 9,473,563 |
| REHABILITATION OF SEWERS ON ROOT CONTROL—PH4 | X | X | X | | \$ | 6,400,000 | \$ | 7,786,579 | \$ | 9,473,563 |
| RIO DEL MAR SEWER REHABILITATION—PH 3 | | X | | | \$ | 6,210,000 | \$ | 7,555,415 | \$ | 9,192,317 |
| RIO DEL MAR SEWER REHABILITATION—PH 4 | | X | | | \$ | 14,570,000 | \$ | 17,726,633 | \$ | 21,567,159 |

UNPROGRAMMED PROJECTS 2028/29+

| DESCRIPTION | CAPITOLA | DISTRICT 1 | DISTRICT 2 | CITY OF SC | ESTIMATED COST | | 2028/29 ESTIMATED COST | | 2033/34 ESTIMATED COST | |
|--|----------|------------|------------|------------|----------------|--------------------|------------------------|--------------------|------------------------|--------------------|
| | | | | | | | | | | |
| SCHWAN FORCE MAIN REPLACEMENT | | | X | | \$ | 6,150,000 | \$ | 7,482,415 | \$ | 9,103,502 |
| SEARIDGE ROAD SEWER REPLACEMENT | | X | | | \$ | 1,280,000 | \$ | 1,557,316 | \$ | 1,894,713 |
| SEASCAPE BOULEVARD, PROVINCETOWN COURT TO SUMNER AVENUE SEWER REPLACEMENT | | | X | | \$ | 1,136,000 | \$ | 1,382,118 | \$ | 1,681,558 |
| SOQUEL DRIVE, EAST OF 41 ST AVENUE TO PORTER STREET SEWER REPLACEMENT | | X | | | \$ | 3,392,000 | \$ | 4,126,887 | \$ | 5,020,989 |
| SOQUEL VILLAGE SEWER REHABILITATION—PH 3 | | X | | | \$ | 2,830,000 | \$ | 3,443,128 | \$ | 4,189,091 |
| TOWNSEND AREA SEWER REHABILITATION | | | X | | \$ | 4,920,000 | \$ | 5,985,932 | \$ | 7,282,802 |
| VIENNA WOODS SEWER REHABILITATION—PH 1 | | | X | | \$ | 3,750,000 | \$ | 4,562,448 | \$ | 5,550,916 |
| UPPER HARBOR SEWER REPLACEMENT | | X | | | \$ | 16,000,000 | \$ | 19,466,446 | \$ | 23,683,909 |
| TOTAL ESTIMATED COST | | | | | \$ | 174,830,000 | \$ | 212,707,427 | \$ | 258,791,108 |

SANTA CRUZ COUNTY SANITATION DISTRICT



GLOSSARY



CAPITAL IMPROVEMENT PROGRAM

**FISCAL YEARS
2024-2028**

GLOSSARY OF TERMS

| | |
|------------------------------|--|
| ACP: | Asbestos Cement Pipe |
| ARV: | Air Relief Valve |
| Asbestos Cement Pipe: | Asbestos is a set of six naturally occurring silicate minerals used commercially for their desirable physical properties. The inhalation of asbestos fibers can cause serious illnesses. Asbestos was mixed into cement for cement pipes because of its sound absorption, average tensile strength, and resistance to heat, electrical, and chemical damage. As long as the cement remains whole and in good condition, the mineral is not a serious problem. When the pipes are cut and removed from the ground, however, asbestos fibers can be released into the air and inhaled by workers and others. |
| Asset Management: | The managing of assets to achieve the greatest return. The process of monitoring and maintaining facility systems and public infrastructure, with the goal of providing the best possible service to users. |
| CIPP: | Cast in Place Pipe. CIPP is made of Portland cement concrete and is cast in one piece in a prepared trench using specifically designed equipment. The trench is dug with a round bottom bucket and the earthen trench is the outside form. |
| Directional Boring/Drilling: | Directional boring (or drilling or HDD) is a steerable <u>trenchless</u> method of installing underground pipes, conduits and cables in a shallow arc along a prescribed bore path using a surface-launched drilling rig, with minimal impact on the surrounding area. For more information, see the end of this section. |
| Drive Shafts: | Also known as a jacking shaft and describes the excavated pit into which the jacking equipment is placed in order to carry out trenchless construction or rehabilitation activities. Jacking of new pipes or replacement pipes into the bore is done from the drive shaft. When the pipe reached the receiving shaft, the installation is complete. |
| Effluent: | Sewer water consisting of human waste, wash water, food preparation waste, laundry water and other wastes which is transported from residences and institutions to a treatment plant. |

| | |
|-------------------|--|
| Electrical Panel: | The part of an electricity supply system which distributes electrical current to various circuits in a pump station, while providing a protective fuse or circuit breaker for each circuit, in a common enclosure. |
| Force main: | A pressurized main sewer pipeline, used where gravity will not work, such as in low-lying areas. The pipe is pressurized to force the sewage along in a particular direction. An entire length of pipe may be a force main, or the pipeline may alternate between force and gravity. |
| Generator: | A gas- or diesel-powered engine which provides temporary electrical power. The engine turns a small turbine, which then creates usable electricity. |
| Gravity Sewer: | Allows gravity to move the sewage. Functions when there is no power, is easy to maintain, and is designed so that the contents flow in a certain direction. To ensure that untreated sewage does not back up and pose a public health risk, gravity sewer lines are designed so the pressure of water entering the inflow pipes, combines with the flow of the gravity-fed outflow pipes, preventing backflow. |
| Hatch: | A ground level access door used at some sanitary sewer pump stations for access to wet wells, valves, pump station controls and equipment. |
| HDPE: | High Density Polyethylene Pipe. HDPE can carry potable water, wastewater, slurry, chemicals, hazardous wastes, and compressed gases. HDPE is strong, extremely tough, flexible, and very durable. Joining HDPE pipe segments requires fusing. |
| Lateral: | The part of the sewer line which connects the residence's or business's sewer to the sewer main in the street. Laterals are owned and maintained by the property owners. |
| Lift Station: | An assembly of a wet well, level controls, and pumps designed to take the flow from a gravity sewer system and transport it uphill where the use of a gravity sewer line would not be feasible. (Also called a pump station.) |
| Linear Foot: | A system of measurement in which only the length is considered. |
| Microtunneling | Microtunneling is a digging process that uses a remotely controlled microtunnel boring machine (MTBM) combined with the pipe jack- |

and-bore method to directly install pipes underground in a single pass. (See also “pipe jacking.”)

| | |
|--------------------------------------|--|
| Moratorium: | A suspension in allowed new sewer connections. |
| Outfall: | The place where treated effluent is discharged. |
| Parallel Sewers: | Where two or more sewer lines are installed next to each other. These are required, at times, when an area’s sewer lines need to be gravity sewered in one direction to a nearby pump station and then pumped in the opposite direction to the next pump station. Also, when upsizing an existing sewer line is not possible or cost effective, a parallel line may be installed to add capacity to the system. |
| Pipe Bursting: | A trenchless method of replacing buried pipelines (such as sewer, water, or natural gas pipes) without the need for a traditional construction trench. For more information, see the end of this section. |
| Pipe jacking | A microtunneling process where pipes are pushed behind the microtunneling machine. The speed of the microtunneling machine is controlled by how fast the pipe is inserted. |
| Programmable Logic Controller (PLC): | An industrial digital computer that is used for managing pump station automation. |
| Pump Station: | Pump stations (or lift stations) are designed to move raw sewage that is fed from gravity pipelines to pipelines at a higher elevation. Sewage flows into an underground pit, called a wet well. The well is equipped with electrical instrumentation to detect the level of sewage, and when the sewage level rises to a pre-set point, a pump motor creates pressure to push the sewage into a force main where it is eventually discharged into a gravity manhole. The cycle then starts over again until the sewage reaches the City Treatment Facility. The size of the pump station depends on the connections being served and the pumps are between 2hp to 230hp. Typically, large pump stations are located in above ground enclosed structures and smaller pump wet wells are located below ground in residential streets. |
| POTW | Public Owned Treatment Works. Any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of liquid nature which is owned by a “State” or “municipality.” |

| | |
|---------------------------------|---|
| RWQCB: | Regional Water Quality Control Board |
| Riparian Corridor: | The part of a watershed adjacent to a body of water, such as a creek, river, or stream. |
| SCADA: | Supervisory Control and Data Acquisition. A computer-based control system for monitoring pump station conditions throughout the District. |
| Sewer Force main: | See "Force main." |
| Sewer Lateral: | See "Lateral." |
| Sewer Moratorium: | See "Moratorium." |
| Shaft Driven Pumps: | Pumps that are powered by drive shafts. |
| SSFM: | Sanitary Sewer Force Main |
| Submersible Pumps: | Submersible pumps are submerged below the effluent, where the motor is cooled and overheating less likely to occur. |
| SWQCB: | State Water Quality Control Board |
| Sliplining: | Sliplining is completed by installing a smaller, "carrier pipe" into a larger "host pipe." For more information, see article at end of this section. |
| Trenchless Sewer Technology: | Methods of pipe replacement that can be completed without continuous open trenching of the pipe alignment. For more information, see the end of this section. |
| Variable Frequency Drive (VFD): | A type of motor controller that drives an electric motor by varying the frequency and voltage supplied to the electric motor. |
| Vitrified Clay Pipe (VCP): | Pipe made from clay that has been vitrified, a process which fuses the clay particles into a hard, inert, glass-like state. This type of pipe is usually used in gravity sewer lines because it is reasonably priced and resistant to sulfuric acid which is generated by hydrogen sulfide, a common component of sewage. Hydrofluoric acid and highly-concentrated caustic wastes are the only components known to harm VCP. |
| Wet well: | A chamber which is used to lift the sewage out of the wet well when it reaches a certain level and pump it on towards a treatment plant. |

TRENCHLESS TECHNOLOGY

Trenchless technology is a type of subsurface construction work that requires few trenches or no continuous trenches. It is a rapidly growing sector of the construction and civil engineering industry. It can be defined as "a family of methods, materials, and equipment capable of being used for the installation of new or replacement or rehabilitation of existing underground infrastructure with minimal disruption to surface traffic, business, and other activities."^[1]

Trenchless construction includes such construction methods as tunneling, microtunneling (MTM), horizontal directional drilling (HDD) also known as directional boring, pipe ramming (PR), pipe Jacking (PJ), moling, horizontal auger boring (HAB) and other methods for the installation of pipelines and cables below the ground with minimal excavation. Large diameter tunnels such as those constructed by a tunnel boring machine (TBM), and drilling and blasting techniques are larger versions of subsurface construction. The difference between trenchless and other subsurface construction techniques depends upon the size of the passage under construction.

The method requires considering soil characteristics and the loads applied to the surface. In cases where the soil is sandy, the water table is at shallow depth, or heavy loads such as from traffic are expected, the depth of excavation has to be at a depth such that the pressure of the load on the surface does not affect the bore, otherwise there is danger of surface caving in.

TRENCHLESS REHABILITATION

Trenchless rehabilitation includes such construction methods as sliplining, thermoformed pipe, pipe bursting, shotcrete, gunite, cured-in-place pipe (CIPP), grout-in-place pipe, mechanical spot repair, and other methods for the repair, rehabilitation, or replacement of existing buried pipes and structures without excavation, or at least with minimal excavation. Mechanical Spot Repair is applied where damaged pipelines require the re-instatement of structural integrity. Sliplining, CIPP, and thermoformed pipe lining involve pulling or inverting a new liner into an existing pipe, then applying heat and/or pressure to force the liner to expand to fill the pipe. CIPP technologies combine a carrier (felt or fiberglass) impregnated with heat, ultraviolet light, or ambient curable resin to form a "pipe within a pipe". Pipe bursting fractures a pipe from the inside and forces the fragments outwards while a new pipe is drawn in to replace the old.^[2] The other methods are primarily for fixing spot leaks. Trenchless rehabilitation methods are generally more cost-effective than traditional exhumation (dig) and replace methods.

References (from Wikipedia)<http://www.nastt.org/> North American Society for Trenchless Technology

Simicevic, Jadranka and Sterling, Raymond L. (March 2001) (PDF). *Guidelines for Pipe Bursting, TTC Technical Report #2001.02*. U.S. Army Corps of Engineers Engineering Research and Development Center.

http://www.ttc.latech.edu/publications/guidelines_pb_im_pr/bursting.pdf.

DIRECTIONAL BORING

Directional boring, commonly called horizontal directional drilling or HDD, is a steerable trenchless method of installing underground pipes, conduits and cables in a shallow arc along a prescribed bore path by using a surface-launched drilling rig, with minimal impact on the surrounding area. Directional boring is used when trenching or excavating is not practical. It is suitable for a variety of soil conditions and jobs including road, landscape and river crossings. Installation lengths up to 2000m have been completed, and diameters up to 1200mm have been installed in shorter runs. Pipes can be made of materials such as PVC, polyethylene, polypropylene, Ductile iron, and steel if the pipes can be pulled through the drilled hole. Directional boring is not practical if there are voids in the rock or incomplete layers of rock. The best material is solid rock or sedimentary material. Soils with cobble stone are not recommended. There are different types of heads used in the pilot-hole process, and they depend on the geological material.

The equipment used in a horizontal directional drilling depends on the outer diameter of the pipe, length of the run, ground conditions and the surroundings above ground. For the large bores, directional drills equipped with as much as 450,000kg (or more) of thrust/pullback is used in conjunction with a mud reclaimer, excavator, and multiple pumps and hoses to supply the drilling fluid to the drillstem. The directional drilling stem is made from heat-treated high-carbon steel for strength and ships in diameters of 8 - 15cm. Drill stem sections are manufactured in 3.0 or 4.6 and also 9.1-meter lengths and have male threading on one end, and female on the other. It is common for a directional drill to carry as much as 305m of rod on board. Drilling heads come in multiple designs and depend on the rock or soil being penetrated. The drilling head has multiple water ports to allow removal of material. A talon bit involves carbide-tipped cutters. These allow for steering and cutting the material. Another head is a mud-motor that is used in rocky landscapes.

Furthermore, supporting equipment is needed to assist directional-drilling or HDD to work smoothly, such as drilling mud recycling system, shale shaker, mud cleaner, centrifugal pump, mud tanks, etc.

Directional boring is used for installing infrastructure such as telecommunications and power cable conduits, water lines, sewer lines, gas lines, oil lines, product pipelines, and environmental remediation casings. It is used for crossing waterways, roadways, shore approaches, congested areas, environmentally sensitive areas, and areas where other methods are costlier or not possible. It is used instead of other techniques to provide less traffic disruption, lower cost, deeper and/or longer installation, shorter completion times, directional capabilities, and environmental safety.

The technique has extensive use in urban areas for developing subsurface utilities as it helps in avoiding extensive open cut trenches. The use requires that the operator have complete information about existing utilities so that he can plan the alignment to avoid damaging those utilities. Since uncontrolled drilling can lead to damage, different agencies/government authorities owning the urban *right-of-way* or the utilities have rules for safe work execution. For standardization of the techniques, different trenchless technology promoting organizations have developed guidelines for this technique.

The process starts with receiving hole and entrance pits. These pits will allow the drilling fluid to be collected and reclaimed to reduce costs and prevent waste. The first stage drills a pilot hole on the designed path, and the second stage (reaming) enlarges the hole by passing a larger cutting tool known as the back reamer. The reamer's diameter depends on the size of the pipe to be pulled back through the bore hole. The driller increases the diameter according to the outer diameter or the conduit and to achieve optimal production. The third stage places the product or casing pipe in the enlarged hole by way of the drill stem; it is pulled behind the reamer to allow centering of the pipe in the newly reamed path.

Horizontal directional drilling is done with the help of a viscous fluid known as drilling fluid. It is a mixture of water and, usually, bentonite or polymer continuously pumped to the cutting head or drill bit to facilitate the removal of cuttings, stabilize the bore hole, cool the cutting head, and lubricate the passage of the product pipe. The drilling fluid is sent into a machine called a reclaimer which removes the drill cuttings and maintains the proper viscosity of the fluid. Drilling fluids hold the cuttings in suspension to prevent them from clogging the bore. A clogged bore creates back pressure on the cutting head, slowing production.

Location and guidance of the drilling is an important part of the drilling operation, as the drilling head is under the ground while drilling and, in most cases, not visible from the ground surface. Uncontrolled or unguided drilling can lead to substantial destruction, which can be eliminated by properly locating and guiding the drill head.

There are three types of locating equipment for locating the bore head: the *walk-over* locating system, the *wire-line* locating system and gyro-guided drilling, where a full inertial navigation system is located close to the drill head. In the first system, a sonde, or transmitter, behind the bore head registers angle, rotation, direction, and temperature data. This information is encoded into an electro-magnetic signal and transmitted through the ground to the surface in a walk-over system. At the surface, a receiver (usually a hand-held *locator*) is manually positioned over the sonde, the signal is decoded, and steering directions are relayed to the bore machine operator. The wire-line system is a Magnetic Guidance System. With a Magnetic Guidance System (MGS), the tool reads Inclination and Azimuth. The MGS, also has a secondary means of location verification utilizing wire grids laid on the ground surface. It is the only system that has the capability of verifying the location. This information is transmitted through the wire-line fitted within the drill string. At the surface, the Navigator in the drill cab performs the necessary calculations to confirm the parameters have been met. The MGS even without the use of the wire grid, has been accurate over a distance of 2km to within 1.5m. The gyro-based system is fully autonomously working and therefore one of the most accurate system where sufficient diameter (200mm) is available and where long distances (up to 2km) have to be performed with small deviation (less than 1m position error). All three systems have their own merits, and a particular system is chosen depending upon the site requirements.



A directional boring unit in action.

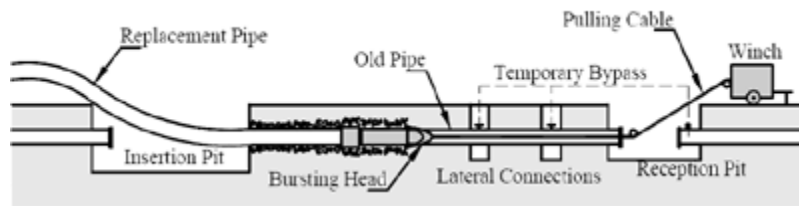


Starting pit with pilot hole and some drilling fluid in the pit.

References (from Wikipedia)

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PIPE BURSTING



Pipe replacement by pipe bursting

Pipe bursting is a trenchless method of replacing buried pipelines (such as sewer, water, or natural gas pipes) without the need for a traditional construction trench. "Launching and receiving pits" replace the trench needed by conventional pipe-laying.

There are five key pieces of equipment used in a pipe-bursting operation: the expander head, pulling rods, a pulling machine, a retaining device, and a hydraulic power pack.

Today's expander heads have a leading end much smaller in diameter than the trailing (bursting) end, small enough to fit through the pipe that will be replaced. The smaller leading end is designed to guide the expander head through the existing pipe; earlier models did not have this feature and lost course at times, resulting in incomplete pipe bursts and project failures.

The transition from the leading end to the trailing end can include "fins" that make first contact with the existing pipe. Using these fins as the primary breaking point is a very effective way to ensure that the pipe is broken along the entire circumference.

A machine is set in the receiving pit to pull the expander head and new pipe into the line. The head is pulled by heavy, interlocking links that form a chain. Each link weighs several hundred pounds.

All of the equipment used in a pipe-bursting operation is powered by one or multiple hydraulic power generators.

Pipe-bursting may also be used to expand pipeline carrying capacity by replacing smaller pipes with larger ones, or "upsizing." Extensive proving work by the gas and water industries has demonstrated the feasibility of upsizing gas mains, water mains and sewers. Upsizing from 100mm to 225mm diameter is now well established, and pipes of up to 900mm ^[1]diameter and greater have been replaced.

References (From Wikipedia): B. W. LaMay, P.E., R. E. Hutchinson, P.E., and V. H. Herrera, P.E. (2010). *Pipe Bursting Repair of the City of Tallahassee: Capital Circle 36-Inch Hobas Force Main*. American Society of Civil Engineers. <http://cedb.asce.org/cgi/WWWdisplay.cgi?268408>.

SLIPLINING

Sliplining is one of the oldest methods for trenchless rehabilitation of existing pipelines. Sliplining is used to repair leaks or restore structural stability to an existing pipeline. Sliplining is completed by installing a smaller, "carrier pipe" into a larger "host pipe", grouting the annular space between the two pipes, and sealing the ends. Sliplining has been used since the 1940s.[1] The most common material used to slipline an existing pipe is high density polyethylene (HDPE), but fiberglass reinforced pipe (FRP) and PVC are also common.[2] Sliplining can be used to stop infiltration and restore structural integrity to an existing pipe. The most common size is 0.20m - 1.5m (8"-60"), but sliplining can occur in any size given appropriate conditions.

There are two methods used to install a slipline: continuous and segmental.

Continuous sliplining uses a long continuous pipe, such as HDPE or fusible PVC, that can be welded into continuous pieces of any length. The continuous carrier pipe is pulled through the existing host pipe starting at an insertion pit and continuing to a receiving pit. Either the insertion pit, the receiving pit, or both can be manholes or other existing access points if the size and material of the new carrier pipe can maneuver through the existing facilities.

Segmental sliplining is very similar to continuous sliplining. The difference is primarily based on the pipe material used as the new carrier pipe. When using any bell and spigot pipe such as FRP, PVC, or HDPE the individual pieces of pipe are lowered into place, pushed together, and pushed along the existing pipe corridor.

Using either method the annular space between the two pipes must be grouted. In the case of sanitary sewer lines, the service laterals must be reconnected via open-trench excavation.

Sliplining is generally a very cost effective rehabilitation method. It is also very easy to install and requires tools and equipment widely available to any pipeline contractor. Segmental sliplining may not require bypassing of the existing flow. However, the new pipe will generally have a significantly reduced cross sectional area because of the size difference between the inside diameter of the existing pipe and the outside diameter of the new pipe, as well as the wall thickness of the new pipe. Continuous sliplining generally requires bypassing the existing flow.

References (from Wikipedia):

Mohammed Najafi, PhD, PE and Sanjov Gokhale, PhD, PE, *Trenchless Technology* (New York: McGraw Hill, 2004), p. 295-311.

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