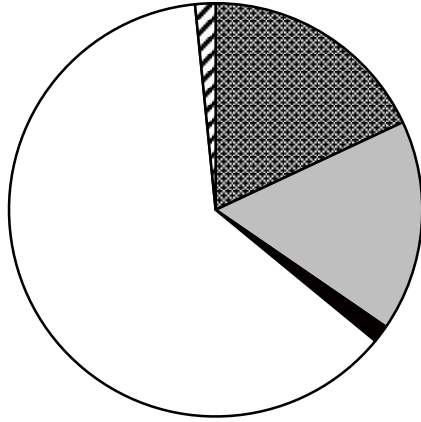


SANITARY SEWER SYSTEM

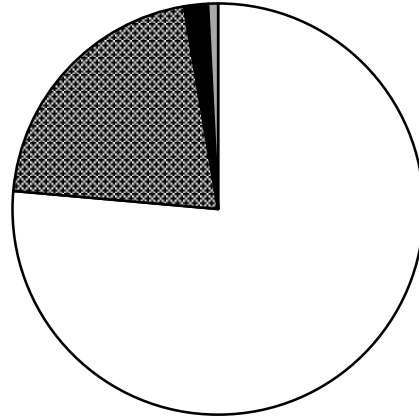
2019-2023 Capital Improvement Program

2018-2019 Adopted Source of Funds



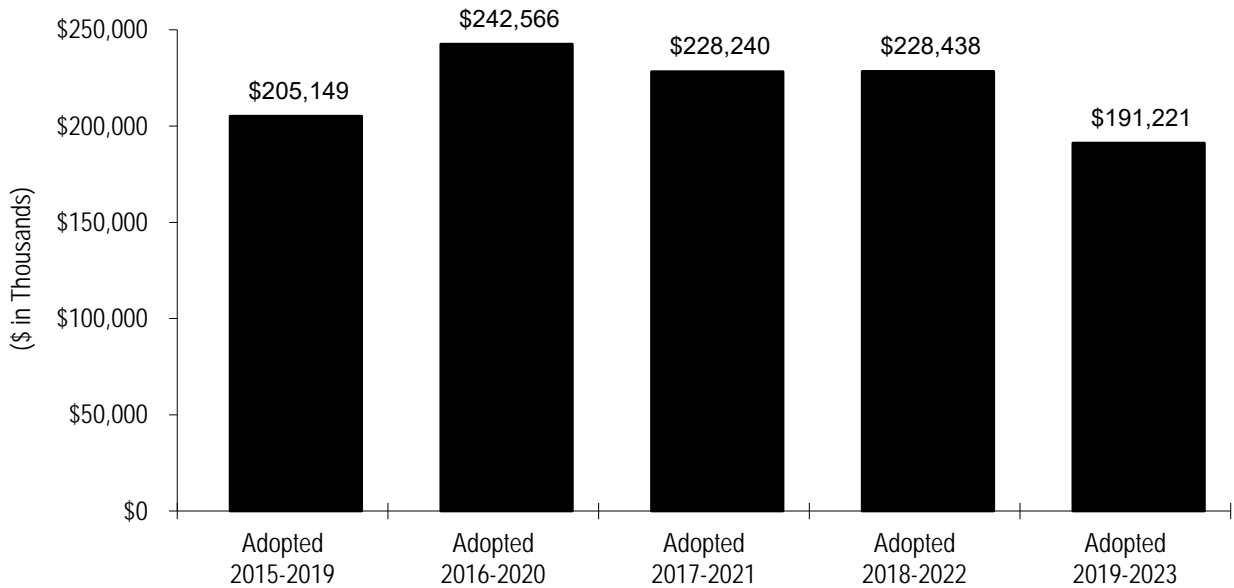
- ▣ Beginning Fund Balance
- ▣ Other Government Agency
- ▣ Taxes, Fees and Charges
- ▣ Loans & Transfers
- ▣ Interest

2018-2019 Adopted Use of Funds



- ▣ Construction
- ▣ Non-Construction
- ▣ Ending Fund Balance
- ▣ Loans & Transfers

CIP History

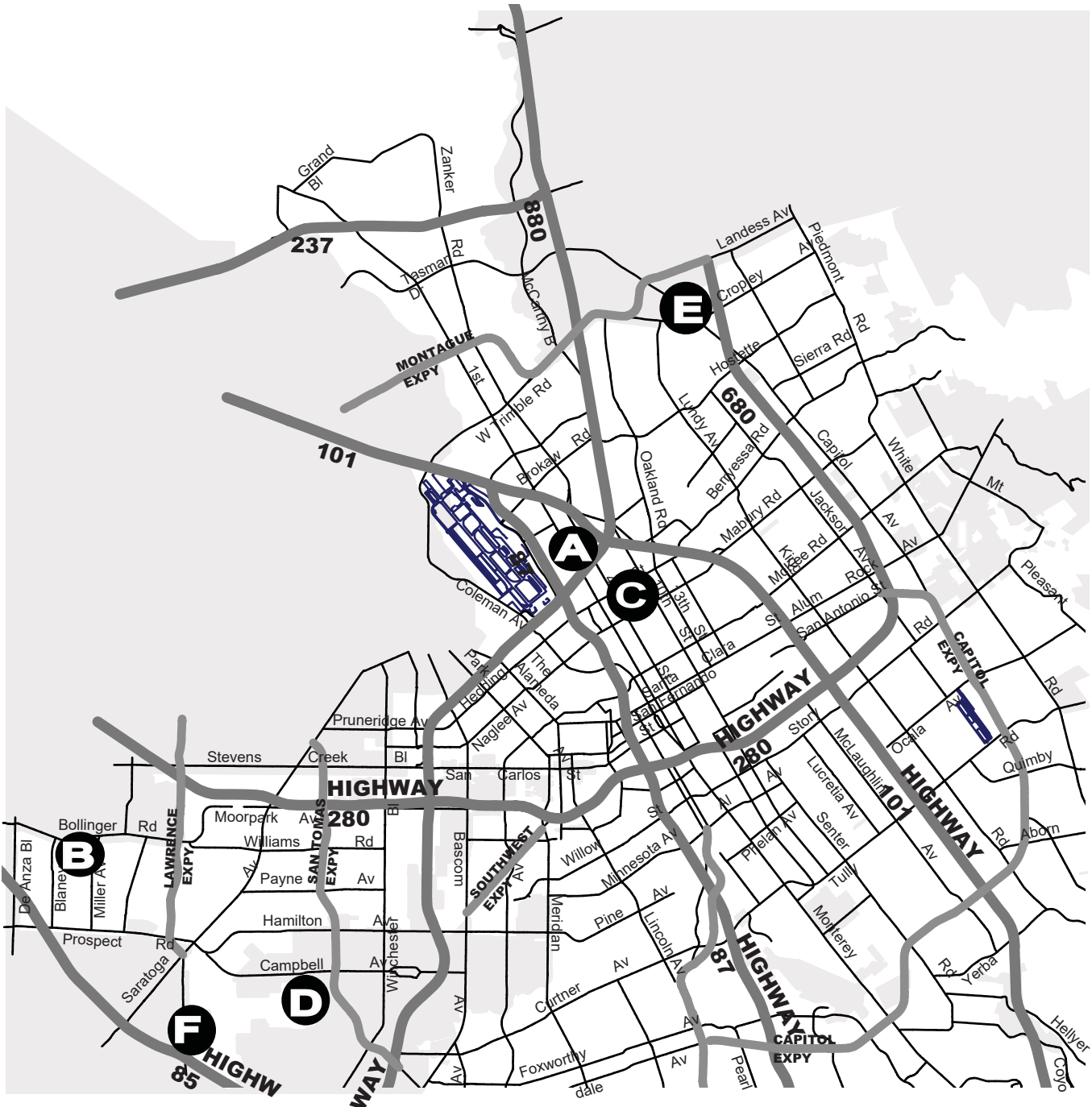


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Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

- A)** 60" Brick Interceptor, Phase VIA and VIB
- B)** Bollinger Rd. - Moorpark Ave. - Williams Rd. Sanitary Sewer Imp.
- C)** Fourth Major Interceptor, Phase VIIIA
- D)** Rincon Ave. - Virginia Ave. Sanitary Sewer Imp.
- E)** Trimble Rd. and Capewood Ln. Sanitary Sewer Imp.
- F)** Westmont Ave. and Harriet Ave. Sanitary Sewer Imp.



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Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Overview

INTRODUCTION

The Sanitary Sewer System of the City of San José consists of approximately 2,030¹ miles of sewer mains ranging in diameter from 6 to 90 inches. The system serves the City, as well as several other jurisdictions, including West Valley Sanitation District (WVSD), City of Santa Clara, County Sanitation Districts 2-3, and Burbank Sanitation District, and conveys sewage to the San José-Santa Clara Regional Wastewater Facility (RWF). The replacement value of the system is estimated at approximately \$3.5 billion.

SANITARY SEWER SYSTEM PUBLIC INFRASTRUCTURE	
MILES OF SEWER MAINS	
6" TO 8" in diameter	1,580
10" TO 12" in diameter	200
OVER 12" in diameter	250
NUMBER OF MANHOLES	45,000
NUMBER OF PUMP STATIONS	18

The 2019-2023 Adopted Capital Improvement Program (CIP) provides funding of \$191.2 million, of which \$51.2 million is allocated in 2018-2019. This program is part of the Environmental and Utility Services City Service Area (CSA) and supports the following outcome: *Reliable Utility Infrastructure*.

PROGRAM PRIORITIES AND OBJECTIVES

The 2019-2023 Adopted Sanitary Sewer System CIP supports the priorities and objectives of the Environmental and Utility Services CSA by maintaining the following strategic priorities:

- Ensure adequate capacity within the system and to reduce Sanitary Sewer Overflows (SSOs);
- Support the goal of preventing SSOs by providing sufficient system capacity and maintaining system structure integrity;
- Manage system capacity, assess the system's condition, and construct sewer improvement projects;
- Improve sewer capacity in substantially built-out areas and less-developed areas to accommodate economic development; and
- Rehabilitate existing sewers with a higher priority given to those with extensive, severe deterioration.

The Sanitary Sewer System CIP is guided by several interrelated plans, and chief among them is the Envision San José 2040 General Plan (General Plan). The General Plan provides a guide for all capital improvement programs to align public infrastructure investment with San José's plans for future growth. This means that the projects included in the Sanitary Sewer System CIP ensure adequate sewer capacity and reliability to safely convey sewage city-wide, as well as within those areas designated for future development. The land uses and growth included in the General Plan were also used in the development of the Sanitary Sewer Master Plan that was completed in early 2013.

¹ Total length was updated in 2016 based on the latest GIS data to exclude sewer mains that were abandoned or owned by adjacent agencies or private developers.

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Overview

PROGRAM PRIORITIES AND OBJECTIVES

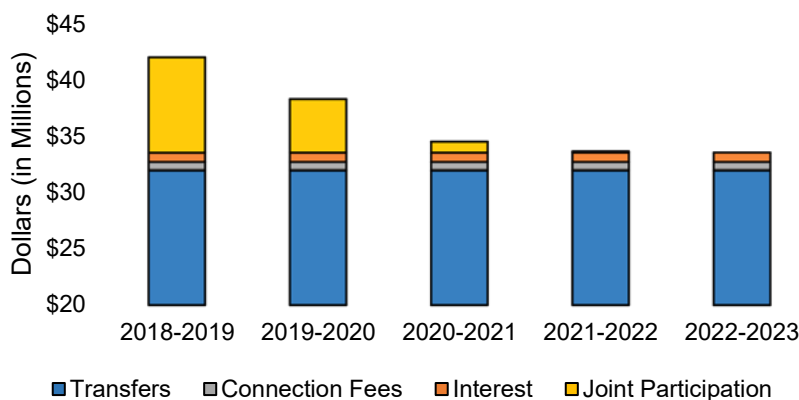
The Master Plan helped identify and address trunk sewer capacity deficiencies in the existing system and forecast additional capacity-enhancing projects required to meet future demands in the context of the General Plan.

As identified in the Status Report on Deferred Maintenance and Infrastructure Backlog accepted by City Council on March 6, 2018, the Sanitary Sewer Collection System has estimated unfunded needs of approximately \$1.5 million per year. With this remaining backlog, the City will continue to evaluate staffing levels and resources and overall strategic capital improvement priorities at both the RWF and the sanitary collection system to address the remaining unfunded needs in the future.

SOURCES OF FUNDING

The 2019-2023 Adopted CIP provides funding of \$191.2 million, of which \$51.2 million is allocated in 2018-2019. The program funding level decreased by \$37.2 million from \$228.4 million in the 2018-2022 Adopted CIP, mainly due to the award and completion of several multi-million dollar projects in 2017-2018. Revenue for this CIP is derived from the following sources: transfers from the Sewer Service and Use Charge (SSUC) Fund, Sanitary Sewer Connection Fees, and “Joint Participation” contributions from other jurisdictions served by the Sanitary Sewer System for the use of San José sewer lines. Among these revenues, the SSUC Fund transfer continues to be the primary funding source for the program.

Summary of Revenues



PROGRAM HIGHLIGHTS

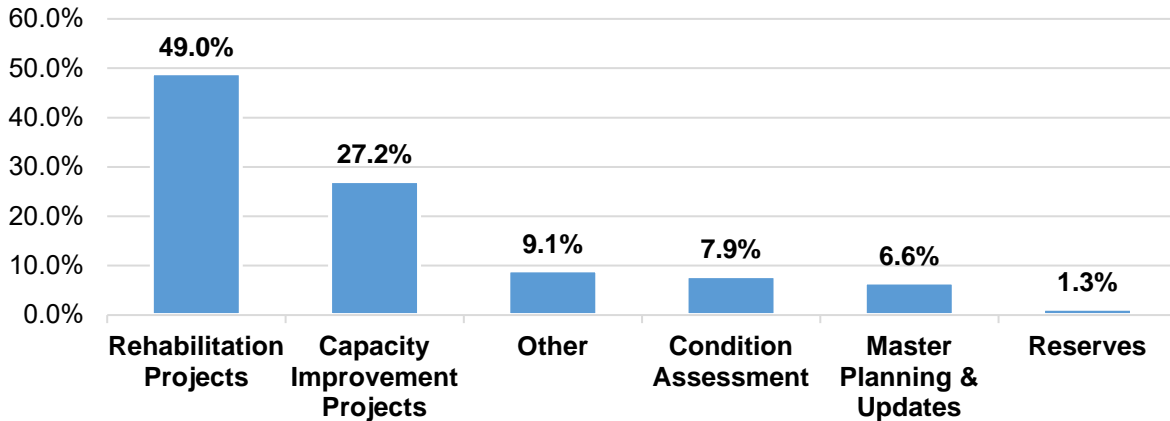
The Sanitary Sewer System Capital Program’s expenditures are organized to show the use of funds in several categories. The following highlights the major projects in the program. For further information on the program’s individual projects, please refer to the Detail Pages.

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Overview

2019-2023 Sanitary Sewer System Capital Program Expenditures \$189.7 million (excludes Ending Fund Balance)



Capacity Improvement and Rehabilitation – North San José Interceptors

For the North San José Interceptor System, funding totaling \$9.0 million is programmed in this Adopted CIP for the construction of the 60” Brick Interceptor, Phase VIA (\$3.5 million) and the award of the Fourth Major Interceptor Phase VIIA (\$5.5 million) in 2019-2020. The North San José Interceptor System is a collection of very large sanitary sewer pipes with diameters ranging from 54 to 90 inches. In general, an interceptor can be defined as a large pipe built by the City to serve as the primary sewage collector. Interceptors carry flows from the sub-collector sewers in the drainage basin to the point of treatment or disposal of the wastewater. The North San José Interceptor System Master Plan, originally drafted in 1986, was updated in 2002 and includes an assessment of the hydraulic condition of the large sewers, a determination of the level of corrosion in the pipelines, and validated capacity of the system. The final recommendations for programmed rehabilitation and construction of new sewer interceptors have been incorporated into the 2019-2023 Adopted CIP and will be referred to in the preparation of subsequent CIPs. Capital improvements to the interceptor system consist of large interrelated projects that must be staged in a specified sequence for logical construction of the system.

Presently, the City has three major sewer interceptors in the North San José Interceptor System that originate at the intersection of Seventh and Empire Streets and continue northward to the RWF, mostly along the full length of Zanker Road. The multi-phased fourth major interceptor is currently under construction; five out of seven phases have been completed. The 60” Brick Interceptor, Phase VIA is scheduled to start construction in spring 2019. The scope and costs for Phase VIB will be determined after Phase VIA is complete. The Forth Major Interceptor, Phase VII is scheduled to begin design in 2018-2019. Once completed, this project will allow one of the three older interceptors to be removed from service during dry weather periods for the purpose of routine maintenance or rehabilitation. Such flexibility is important and currently not available in all reaches of the system.

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Capacity Improvement – Other Projects

Funding totaling \$42.5 million, is programmed in this Adopted CIP to improve capacity of the Sanitary Sewer system. These capacity improvement projects are selected using a computerized sewer flow model (which uses the General Plan to project sewage flows in the system), City maintenance records, and flow monitoring to identify sewer capacity constraints. When combined with the North San José Interceptor projects described above, capacity improvement projects total \$51.5 million.

Rehabilitation – Other Projects

Funding totaling \$91.0 million is programmed for sewer rehabilitation and/or replacement in other areas of the City, mostly targeted toward older neighborhoods facing structural deterioration or changes in sewage flow patterns. Rehabilitation projects are selected based on hydrogen sulfide studies that analyze pipe corrosion, condition assessment studies, video inspections, maintenance records and reports, and actual pipe failures, whether due to pipe corrosion or other physical deficiencies. This funding also is used to support the newly developed Exfiltration Abatement Program to search for and repair any damages on existing sewer mains to prevent leakage to adjacent storm sewer mains.

Other Project Highlights

The Master Planning Program actively monitors and manages sewer system capacity needs using a computerized hydraulic model of the San José sewer system, supported by sewer flow monitoring that collects flow data at strategic locations within the system. The Master Planning Program continues to enhance the accuracy of the computerized model by incorporating land use changes and updated sewer and flow data. The Master Planning Program also supports economic development in the City by providing sewer capacity review and planning using the models.

The Sanitary Sewer Condition Assessment Program, initiated in 2009, is an ongoing program to assess the structural integrity of the collection system including pipes, force mains, manholes, junction structures, and pump stations. Data collected through visual and closed circuit television inspection and as-built information will be reviewed, analyzed, and prioritized based on a risk analysis approach using information such as pipe size, location, design flow, physical conditions, and maintenance histories. With this information, rehabilitation budgets and preventive maintenance and improvement programs can be planned and prioritized.



**Williams Rd – Moorpark Ave
Sanitary Sewer Improvement**

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Overview

MAJOR CHANGES FROM THE 2018-2022 ADOPTED CIP

The overall size of the Sanitary Sewer System CIP has decreased by \$37.2 million from \$228.4 million in the 2018-2022 Adopted CIP to \$191.2 million in the 2019-2023 Adopted CIP, mainly due to the award and completion of several multi-million dollar projects in 2017-2018, including the 60” Brick Interceptor, Phase VIA and VIB project, which had \$42.4 million allocated in 2017-2018. The following table outlines the most significant changes from the 2018-2022 Adopted CIP to the 2019-2023 Adopted CIP.

Project	Incr/(Decr)
Master Planning Updates	\$1.6 million
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	\$1.3 million
60” Brick Interceptor, Phase VIA and VIB	(\$26.7 million)
Urgent Rehabilitation and Repair Projects	(\$3.5 million)
Rincon Avenue – Virginia Avenue Sanitary Sewer Improvements	(\$2.8 million)
Immediate Replacement and Diversion Projects	(\$1.5 million)

OPERATING BUDGET IMPACT

All the projects in the Adopted Sanitary Sewer System CIP rehabilitate or replace existing sewers in order to avoid possible future maintenance costs and therefore do not incur additional long-term operating and maintenance costs.

COUNCIL-APPROVED REVISIONS TO THE PROPOSED CAPITAL IMPROVEMENT PROGRAM

Changes to the Proposed Capital Improvement Program were brought forward in the Mayor’s June Budget Message for Fiscal Year 2018-2019 and approved by the City Council on June 12, 2018. This included the rebudgeting of unexpended funding for projects totaling \$4.3 million due to project delays. For additional information regarding these rebudgets, please refer to the Manager’s Budget Addendum #29 that was incorporated into the Mayor’s June Budget Message.

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2018-2019 CAPITAL BUDGET

**2019-2023 CAPITAL
IMPROVEMENT PROGRAM**



**SANITARY SEWER
SYSTEM**

**SOURCE AND USE OF FUNDS
STATEMENTS**

Sanitary Sewer System
2019-2023 Adopted Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year Total
Sewer Service and Use Charge Capital Improvement Fund (545)							
Beginning Balance	52,878,254	6,807,888	402,888	1,122,888	185,888	474,888	6,807,888 *
Reserve for Encumbrance	32,107,587						
Transfers							
Transfer from the Sewer Service and Use Charge Fund (541)	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
TOTAL Transfers	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Revenue from Use of Money and Property							
Interest Income	531,000	749,000	754,000	759,000	764,000	769,000	3,795,000
TOTAL Revenue from Use of Money and Property	531,000	749,000	754,000	759,000	764,000	769,000	3,795,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	725,000	8,370,000	4,658,000	870,000			13,898,000
TOTAL Revenue from Local Agencies	725,000	8,370,000	4,658,000	870,000			13,898,000
Total Sewer Service and Use Charge Capital Improvement Fund (545)	118,241,841	47,926,888	37,814,888	34,751,888	32,949,888	33,243,888	184,500,888 *
Sanitary Sewer Connection Fee Fund (540)							
Beginning Balance	3,322,752	2,429,997	447,997	478,997	510,997	543,997	2,429,997 *
Reserve for Encumbrance	1,283,090						

Sanitary Sewer System
2019-2023 Adopted Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year Total
Revenue from Use of Money and Property							
Interest Income	67,000	68,000	69,000	70,000	71,000	72,000	350,000
TOTAL Revenue from Use of Money and Property	67,000	68,000	69,000	70,000	71,000	72,000	350,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	110,000	110,000	110,000	110,000	110,000		440,000
TOTAL Revenue from Local Agencies	110,000	110,000	110,000	110,000	110,000		440,000
Fees, Rates and Charges							
Sanitary Sewer Connection Fees	700,000	700,000	700,000	700,000	700,000	700,000	3,500,000
TOTAL Fees, Rates and Charges	700,000	700,000	700,000	700,000	700,000	700,000	3,500,000
Total Sanitary Sewer Connection Fee Fund (540)	5,482,842	3,307,997	1,326,997	1,358,997	1,391,997	1,315,997	6,719,997 *
TOTAL SOURCES	123,724,683	51,234,886	39,141,886	36,110,886	34,341,886	34,559,886	191,220,886 *

* The 2019-2020 through 2022-2023 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated 2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year Total
<u>Sanitary Sewer System</u>							
2017 Flood - Nordale Pump Station Flood Wall		427,000					427,000
30 inch Old Bayshore Supplement	1,427,663	250,000					250,000
60 inch Brick Interceptor, Phase VIA and VIB	42,432,274	1,624,000	1,882,000	24,000			3,530,000
Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	272,223	7,922,000	311,000				8,233,000
Capitol Avenue Sanitary Sewer Improvements	703,062						
Coleman Road Sanitary Sewer Improvements	354,002						
Fourth Major Interceptor, Phase VIIA		500,000	5,000,000				5,500,000
Immediate Replacement and Diversion Projects	10,414,232	4,400,000	5,400,000	5,400,000	5,900,000	5,900,000	27,000,000
Monterey-Riverside Relief Sanitary Sewer Improvements	674,000						
Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements	4,418,000	701,000					701,000
Stevens Creek Boulevard Sanitary Sewer Improvements	562,000						
Trimble Road and Capewood Lane Sanitary Sewer Improvements	4,525,890	468,000					468,000
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	161,000	4,945,000	466,000				5,411,000
Capacity Improvement Projects	65,944,346	21,237,000	13,059,000	5,424,000	5,900,000	5,900,000	51,520,000
Almaden Supplement Sewer Rehabilitation (North)				2,730,000	400,000		3,130,000
Cast Iron Pipe - Remove and Replace	7,004,546	4,500,000	4,500,000	5,000,000	5,000,000	5,000,000	24,000,000
Condition Assessment Sewer Repairs	12,077,316	5,500,000	5,500,000	6,000,000	6,000,000	6,000,000	29,000,000
Fourth Major Interceptor, Phase IIB/IIIB	706,000						
Inflow and Infiltration Reduction	285,608	200,000	200,000	200,000	200,000	200,000	1,000,000

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year Total
Rehabilitation of Sanitary Sewer Pump Stations	3,957,242	1,575,000	320,000	16,000			1,911,000
Reinforced Concrete Pipe Rehabilitation Program	500,142	500,000	500,000	500,000	500,000	500,000	2,500,000
Spreckles Sanitary Sewer Force Main Supplement, Phase II	282,381						
Urgent Rehabilitation and Repair Projects	11,542,572	4,000,000	4,500,000	7,000,000	7,000,000	7,000,000	29,500,000
Rehabilitation Projects	36,355,807	16,275,000	15,520,000	21,446,000	19,100,000	18,700,000	91,041,000
Sanitary Sewer - Construction	102,300,153	37,512,000	28,579,000	26,870,000	25,000,000	24,600,000	142,561,000
Fee Administration - Sanitary Sewer	84,000	84,000	85,000	85,000	85,000	85,000	424,000
Flow Monitoring Program (Master Planning)	1,331,961	925,000	880,000	880,000	880,000	900,000	4,465,000
Infrastructure - Sanitary Sewer Condition Assessment	5,630,728	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Master Planning Updates	1,572,956	1,965,000	1,700,000	1,500,000	1,400,000	1,500,000	8,065,000
Payments to West Valley Sanitation District	10,000	10,000	10,000	10,000	10,000	10,000	50,000
Permit Review and Inspection for Outside Agencies - Sanitary Sewer	25,000	25,000	25,000	25,000	25,000	25,000	125,000
Preliminary Engineering - Sanitary Sewer	950,000	950,000	950,000	950,000	950,000	950,000	4,750,000
Program Management - Sanitary Sewer	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Public Works Engineering Services Equipment (Materials Lab)	40,000	40,000	40,000	40,000	40,000	40,000	200,000
General Non-Construction - Sanitary Sewer	9,944,645	7,299,000	6,990,000	6,790,000	6,690,000	6,810,000	34,579,000
Sanitary Sewer - Non Construction	9,944,645	7,299,000	6,990,000	6,790,000	6,690,000	6,810,000	34,579,000
Public Art Allocation	370,000	972,000	127,000	50,000	55,000	55,000	1,259,000
Public Art Projects	370,000	972,000	127,000	50,000	55,000	55,000	1,259,000
Capital Program and Public Works Department Support Service Costs	1,512,000	1,820,000	1,458,000	1,316,000	1,188,000	1,188,000	6,970,000
Infrastructure Management System	33,000	34,000	36,000	38,000	40,000	42,000	190,000
Allocations	1,545,000	1,854,000	1,494,000	1,354,000	1,228,000	1,230,000	7,160,000
City Hall Debt Service Fund	327,000	347,000	350,000	350,000	350,000	350,000	1,747,000
Transfers to Special Funds	327,000	347,000	350,000	350,000	350,000	350,000	1,747,000
Transfers Expense	327,000	347,000	350,000	350,000	350,000	350,000	1,747,000

Sanitary Sewer System

2019-2023 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated 2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	5-Year Total
Montague Sanitary Sewer Pump Station Reserve		2,400,000					2,400,000
Expense Reserves - Non Construction		2,400,000					2,400,000
Total Expenditures	114,486,797	50,384,000	37,540,000	35,414,000	33,323,000	33,045,000	189,706,000
Ending Fund Balance	9,237,886	850,886	1,601,886	696,886	1,018,886	1,514,886	1,514,886 *
TOTAL	123,724,683	51,234,886	39,141,886	36,110,886	34,341,886	34,559,886	191,220,886 *

* The 2018-2019 through 2021-2022 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

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2018-2019 CAPITAL BUDGET

**2019-2023 CAPITAL
IMPROVEMENT PROGRAM**

**SANITARY SEWER
SYSTEM**

DETAIL OF PROJECTS

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

2017 Flood - Nordale Pump Station Flood Wall

CSA	Environmental and Utility Services	Initial Start Date	2nd Qtr. 2018
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	3rd. Qtr. 2019
Department	Public Works	Revised Start Date	1st Qtr. 2019
Location	South side of Nordale Ave between Senter Rd and Welch Ave	Revised End Date	
Council Districts	7	Initial Project Budget	\$427,000
Appropriation	A407T	FY Initiated	2017-2018

Description This project funds the installation of a flood/water proof concrete wall, water tight door with mechanical seals, and a new roof to prevent waters from entering the pump station and damaging to the pump station's electrical panels and wet well. The concrete wall would be seven feet high and approximately 8-12 inches thick.

Notes

Major Cost Changes

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Construction			427					427		427
Total			427					427		427

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			427					427		427
Total			427					427		427

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

30 inch Old Bayshore Supplement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2008
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2010
Department	Public Works	Revised Start Date	
Location	Old Bayshore Highway between Commercial Street and Zanker Road	Revised End Date	3rd Qtr. 2018
Council Districts	4	Initial Project Budget	\$4,854,000
Appropriation	A6519	FY Initiated	2008-2009

Description This project funds the construction of 5,540 linear feet of 30-inch diameter relief sewer parallel to an existing 30-inch pipe on Old Bayshore Highway between Commercial Street and Zanker Road.

Justification The Sanitary Sewer Master Plan Phase II identified a need for capacity improvements in this area.

Notes

Major Cost Changes 2010-2014 CIP - Increase of \$142,000 due to changes in project scope.
 2011-2015 CIP - Decrease of \$286,000 due to changes in project scope.
 2012-2016 CIP - Increase of \$630,000 to reflect an increase to the scope of the project.
 2013-2017 CIP - Decrease of \$829,000 due to changes in project scope.
 2014-2018 CIP - Decrease of \$87,000 due to changes in project scope.
 2015-2019 CIP - Decrease of \$188,000 due to a refined project scope and cost estimate.
 2016-2020 CIP - Increase of \$596,000 due to a refined project scope and cost estimate.
 2017-2021 CIP - Increase of \$814,000 due to a refined project scope and cost estimate.
 2018-2022 CIP - Decrease of \$321,000 due to a refined project scope and cost estimate.

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	90									90
Design	405									405
Bid & Award	42									42
Construction	3,111	1,427	125					125		4,663
Post Construction		0	125					125		125
Total	3,647	1,428	250					250		5,325

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	2,132	1,262	250					250		3,644
Sanitary Sewer Connection Fee Fund (540)	1,516	165								1,681
Total	3,647	1,428	250					250		5,325

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

60 inch Brick Interceptor, Phase VIA and VIB

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2009
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2013
Department	Public Works	Revised Start Date	
Location	5th and Commercial Streets to Zanker Road and Old Bayshore Highway	Revised End Date	2nd Qtr. 2021
Council Districts	3	Initial Project Budget	\$10,442,000
Appropriation	A4969	FY Initiated	1991-1992

Description This project replaces approximately 5,000 linear feet of existing 54-inch reinforced concrete sanitary sewer with an 84-inch lined reinforced concrete pipe. This CIP only provides funding to complete Phase VIA. Phase VIB will rehabilitate the existing 60-inch brick sewer after the completion of Phase VIA.

Justification Based on the North San José Interceptor Study, this portion of the interceptor system requires additional capacity to serve the ultimate build out of the City.

Notes The FY Initiated date and Initial Project Budget shown above refer to Phase IIIA, IVB, and VIB of the project. The costs for Phase VIB will be determined after Phase VIA is completed to determine the scope of Phase VIB. The start and completion dates above refer to Phase VIA. The prior year funding shown in the chart below includes earlier phases of this project.

Major Cost Changes Prior to 2010-2011 - Increase of \$65.3 million due to changes in scope, construction costs, and additional project phases. 2011-2015 CIP - Decrease of \$19.7 million due to scope refinement. 2012-2016 CIP - Increase of \$17.7 million due to scope changes and cost estimate updates. 2014-2018 CIP - Decrease of \$6.3 million due to scope changes. 2015-2019 CIP - Decrease of \$1.2 million due to relocation of utilities on Fourth Street by the utility companies and cost adjustment by design consultant. 2016-2020 CIP - Increase of \$2.2 million due to scope change and cost estimate updates. 2017-2021 CIP - Decrease of \$392,000 due to scope change. 2019-2023 CIP - Increase of \$15.2 million after further analysis and review with design-build contractor.

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	63									63
Design	4,589	500								5,089
Bid & Award	10									10
Construction	32,932	41,932	1,624	1,882				3,506		78,370
Post Construction	9				24			24		33
Total	37,603	42,432	1,624	1,882	24			3,530		83,566

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	37,417	42,432	1,624	1,882	24			3,530		83,380
Sanitary Sewer Connection Fee Fund (540)	186									186
Total	37,603	42,432	1,624	1,882	24			3,530		83,566

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2012
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2015
Department	Public Works	Revised Start Date	
Location	Blaney Ave, Bollinger Rd, Moorpark Ave, and Williams Rd to Saratoga Ave	Revised End Date	2nd Qtr. 2021
Council Districts	1	Initial Project Budget	\$5,404,000
Appropriation	A7478	FY Initiated	2012-2013

Description The project includes the capacity upgrade of approximately 17,000 feet of sanitary sewer mains. The project will be completed in two phases. The first phase is at Moorpark Avenue from Lawrence Expressway to Williams Road and along Williams Road to Saratoga Avenue. The second phase is at Bollinger Road from Blaney Avenue to Lawrence Expressway.

Justification This project will provide additional capacity to the Forest-Rosa Basin as identified in the Sanitary Sewer Master Plan Capacity Assessment Phase II and Phase I - Update.

Notes CEQA Project: FSR-7 - Bollinger Road - Blaney Avenue Sanitary Sewer Improvements. Phase 1 construction was completed in 2016-2017, while Phase 2 construction is anticipated to begin in 2018-2019 and was held up due to a paving moratorium delay.

Major Cost Changes 2014-2018 CIP - Increase of \$2.7 million due to change in scope to include an additional 6,000 feet of sanitary sewer mains along Williams Road.
 2015-2019 CIP - Decrease of \$6.8 million due to a moratorium on trench work.
 2016-2020 CIP - Increase of \$3.1 million due to project schedule change.
 2017-2021 CIP - Increase of \$8.9 million due to project re-scope to include an additional project phase.
 2018-2022 CIP - Decrease of \$685,000 due to change in project scope.

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	26									26
Design	491		116					116		607
Bid & Award	7		63					63		70
Construction	3,382	272	7,743	283				8,026		11,680
Post Construction				28				28		28
Total	3,906	272	7,922	311				8,233		12,412

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	3,341	272	7,250	311				7,561		11,175
Sanitary Sewer Connection Fee Fund (540)	565		672					672		1,237
Total	3,906	272	7,922	311				8,233		12,412

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

Fourth Major Interceptor, Phase VIIA

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2018
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2020
Department	Public Works	Revised Start Date	
Location	North 5th Street/Commercial Street and North 7th Street/Empire Street	Revised End Date	
Council Districts	3	Initial Project Budget	\$5,500,000
Appropriation	A410E	FY Initiated	2013-2014

Description This project will install approximately 7,200 linear feet of 66-inch reinforced concrete pipe. Completion of the Phase VIIA project will conclude capacity improvements for the Fourth Major Interceptor system between the intersections of North 5th Street and Commercial Street, and North 7th Street and Empire Street.

Justification The Fourth Major Interceptor is required for capacity, in addition to maintenance redundancy for the other three existing interceptors.

Notes

Major Cost Changes

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			500	5,000				5,500		5,500
Total			500	5,000				5,500		5,500

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			500	5,000				5,500		5,500
Total			500	5,000				5,500		5,500

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2012
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2014
Department	Public Works	Revised Start Date	3rd Qtr. 2017
Location	Rincon Avenue, Virginia Avenue, Middleton Drive, and Twyla Lane	Revised End Date	2nd Qtr. 2019
Council Districts	1	Initial Project Budget	\$3,529,000
Appropriation	A7474	FY Initiated	2012-2013

Description This project upsizes approximately 5,060 feet of 6-inch, 8-inch, and 10-inch sanitary sewer pipes along Campbell Avenue from San Tomas Expressway to Virginia Avenue, along Virginia Avenue from Campbell Avenue to Rincon Avenue, along Rincon Avenue from Virginia Avenue to Montezuma Drive, along Montezuma Drive from Rincon Avenue to Acapulco Drive, along Acapulco Drive from Montezuma Drive to Middleton Drive, along Middletown Drive from Acapulco Drive to Valerie Drive.

Justification This project will provide additional capacity to the Forest-Rosa Basin as identified in the Sanitary Sewer Master Plan Capacity Assessment Phase II and Phase I - Update.

Notes CEQA Project: FSR1 - Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements.

Major Cost Changes 2019-2023 CIP - Increase of \$1.7 million due to a change in project scope.

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Bid & Award		11								11
Construction		4,407	686					686		5,093
Post Construction			15					15		15
Total		4,418	701					701		5,119

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Funding Source Schedule (000s)									
Sewer Service and Use Charge Capital Improvement Fund (545)	4,418	591					591		5,009
Sanitary Sewer Connection Fee Fund (540)			110				110		110
Total	4,418	701					701		5,119

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Annual Operating Budget Impact (000s)									
Total									

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

Trimble Road and Capewood Lane Sanitary Sewer Improvements

CSA	Environmental and Utility Services	Initial Start Date	2nd Qtr. 2014
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2016
Department	Public Works	Revised Start Date	
Location	Between Treewood Lane and Capitol Avenue	Revised End Date	2nd Qtr. 2019
Council Districts	4	Initial Project Budget	\$5,233,000
Appropriation	A7620	FY Initiated	2013-2014

Description This project upsizes approximately 8,200 feet of 8-inch diameter vitrified clay pipe (VCP) sanitary sewer main in the North San José area along Drywood Lane, Warmwood Lane, Laneview Drive, Morrill Avenue, Amberwood Lane, Suttergate Way, Sierra Wood Drive, and Trimble Road, between Treewood Lane and Capitol Avenue with 10- and 12-inch diameter VCP.

Justification This project will provide additional capacity of the Trimble-Morrill Basin as identified in the Sanitary Sewer Master Plan Capacity Assessment Phase II and Phase I - Update.

Notes CEQA Project: TRM1 - Trimble Road and Capewood Lane Sanitary Sewer Improvement.

Major Cost Changes

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	168									168
Design	241									241
Bid & Award	8									8
Construction	4	4,509	450					450		4,962
Post Construction		17	18					18		35
Total	420	4,526	468					468		5,414

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	420	4,153	468					468		5,041
Sanitary Sewer Connection Fee Fund (540)		373								373
Total	420	4,526	468					468		5,414

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of One-Time Construction Projects

Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2017
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2020
Department	Public Works	Revised Start Date	
Location	Westmont Ave, Harriet Ave	Revised End Date	
Council Districts	1	Initial Project Budget	\$4,075,000
Appropriation	A404A	FY Initiated	2013-2014

Description	This project will install 6,300 linear feet of new sanitary sewer and a new siphon along Westmont Avenue from San Tomas Aquino Creek to Harriet Avenue, and along Harriet Avenue from Westmont Avenue to San Tomas Aquino Creek.
Justification	This project is required to provide more capacity to meet existing and future demand. Capacity of existing sanitary sewer system in the area was found to be insufficient to meet existing demand.
Notes	CEQA Project - Forest-Rosa 5 - Westmont and Harriet Sanitary Sewer Improvement.
Major Cost Changes	2019-2023 CIP - Increase of \$1.5 million due to a refined project scope and cost estimate.

	PRIOR YEARS	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			204	47				251		251
Bid & Award			21					21		21
Construction		161	4,720	397				5,117		5,278
Post Construction				22				22		22
Total		161	4,945	466				5,411		5,572

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		161	4,825	466				5,291		5,452
Sanitary Sewer Connection Fee Fund (540)			120					120		120
Total		161	4,945	466				5,411		5,572

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Cast Iron Pipe - Remove and Replace

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A7472		

Description This project removes and replaces cast iron sewer pipes city-wide that are aging or corroded. It is estimated that between 38,000 to 40,000 feet of cast iron pipe will be replaced over the next five years.

Justification This project replaces and/or removes the existing aging or corroded cast iron sewer pipes with new pipes, which will improve flow, thereby reducing the frequency of maintenance activity performed by the Department of Transportation.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	50	50	50	50	50	50	250
Design	200	200	200	200	200	200	1,000
Bid & Award	20	20	20	20	20	20	100
Construction	6,735	4,230	4,230	4,730	4,730	4,730	22,650
Total	7,005	4,500	4,500	5,000	5,000	5,000	24,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	7,005	4,500	4,500	5,000	5,000	5,000	24,000
Total	7,005	4,500	4,500	5,000	5,000	5,000	24,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Condition Assessment Sewer Repairs

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A7356		

Description This allocation funds the identification and repair of damaged pipes in the sanitary sewer system, and includes multiple projects each year as they are identified. Areas in which a sanitary sewer overflow would have high consequences will be the focus of these identify-and-repair contracts.

Justification This allocation is required due to the structural deterioration of aging sewers.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	4	4	4	4	4	4	20
Design	200	200	200	200	200	200	1,000
Bid & Award	10	10	10	10	10	10	50
Construction	11,863	5,286	5,286	5,786	5,786	5,786	27,930
Total	12,077	5,500	5,500	6,000	6,000	6,000	29,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	12,077	5,500	5,500	6,000	6,000	6,000	29,000
Total	12,077	5,500	5,500	6,000	6,000	6,000	29,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Immediate Replacement and Diversion Projects

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A4272		

Description This allocation funds immediate needs that arise from Department of Transportation (DOT) maintenance and response activities. DOT identifies areas that require immediate sewer replacement as part of their maintenance activities and in response to sanitary sewer overflows. If replacement of the sewer is not feasible or cost effective, sewage may be rerouted (diverted) by installing a new or supplemental sewer along a different route. If these needs are not addressed in a timely manner, additional operations and maintenance costs will be incurred, and an increased possibility of sanitary sewer overflows will result.

Justification This allocation is needed to address immediate replacement and supplemental sewer needs.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration						35	35
Project Feasibility Development	40	30	35	35	35		135
Design	500	300	400	400	400	400	1,900
Bid & Award	30	10	20	20	20	20	90
Construction	9,844	4,060	4,945	4,945	5,445	5,445	24,840
Total	10,414	4,400	5,400	5,400	5,900	5,900	27,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	9,137	3,000	5,000	5,000	5,500	5,500	24,000
Sanitary Sewer Connection Fee Fund (540)	1,277	1,400	400	400	400	400	3,000
Total	10,414	4,400	5,400	5,400	5,900	5,900	27,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Inflow and Infiltration Reduction

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A6444		

Description This project rehabilitates sanitary sewers and manholes that have groundwater or storm water penetration. The Flow Monitoring Program and maintenance reports from the Department of Transportation identify sewers ranging from 6 inches to 36 inches in diameter in various locations throughout the City that require rehabilitation.

Justification This allocation reduces groundwater infiltration into the sanitary sewer collection system, thereby reducing the volume of effluent discharged by the San José/Santa Clara Water Pollution Control Plant into the San Francisco Bay.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Construction	286	200	200	200	200	200	1,000
Total	286	200	200	200	200	200	1,000

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	286	200	200	200	200	200	1,000
Total	286	200	200	200	200	200	1,000

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Rehabilitation of Sanitary Sewer Pump Stations

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A6527		

Description This allocation is used to assess, rehabilitate, and/or replace the mechanical and electrical components of the City's sanitary sewer pump stations and manhole structures. At the start of this project, the average age of the City's sanitary sewer pump stations was approximately 30 years. Electrical and mechanical components should be rehabilitated or replaced at a minimum every 25 years.

Justification Redesigning and/or replacing aging pump stations will achieve cost savings and enhance the efficiency of the sanitary sewer system.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. While this is an ongoing project, funding will be allocated as rehabilitation needs are identified.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Property & Land		272					272
Design		13					13
Bid & Award		26					26
Construction	3,932	1,204	320				1,524
Post Construction	25	60		16			76
Total	3,957	1,575	320	16			1,911

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	3,957	1,575	320	16			1,911
Total	3,957	1,575	320	16			1,911

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Reinforced Concrete Pipe Rehabilitation Program

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A7361		

Description This allocation is used to investigate the structural condition of approximately 70,000 feet of reinforced concrete pipe (RCP) and rehabilitate as necessary. Due to the wide range of lengths, diameters, and locations of RCP throughout the City's sanitary sewer system, projects which may contain multiple construction locations will be developed. This allocation provides the flexibility to develop and construct projects which group locations, pipe lengths, and diameters in a cost effective manner.

Justification There are approximately 70,000 feet of RCP pipes in the City that may require lining or rehabilitation to prevent them from being corroded. All RCP lines requiring rehabilitation will be repaired or lined as they are identified.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	35	35	35	35	35	35	175
Design	140	140	140	140	140	140	700
Bid & Award	5	5	5	5	5	5	25
Construction	320	320	320	320	320	320	1,600
Total	500	500	500	500	500	500	2,500

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	500	500	500	500	500	500	2,500
Total	500	500	500	500	500	500	2,500

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program

2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Construction Projects

Urgent Rehabilitation and Repair Projects

CSA	Environmental and Utility Services	Initial Start Date	Ongoing
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing
Department	Public Works	Revised Start Date	
Location	City-wide	Revised End Date	
Council Districts	City-wide	Initial Project Budget	
Appropriation	A4271		

Description This ongoing allocation is used to investigate, prioritize, and rehabilitate neighborhood sewers that exhibit structural deterioration, root intrusion, and/or blockages. The projects will be developed to respond to the Department of Transportation's ongoing maintenance activities and sewer overflow incidents that are urgent and cannot be programmed during the annual CIP preparation process.

Justification This allocation is required due to the structural deterioration of aging sewers.

Notes Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

Major Cost Changes

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Design	600	300	400	500	500	500	2,200
Bid & Award	40	40	40	40	40	40	200
Construction	10,883	3,650	4,050	6,450	6,450	6,450	27,050
Post Construction	20	10	10	10	10	10	50
Total	11,543	4,000	4,500	7,000	7,000	7,000	29,500

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	11,543	4,000	4,500	7,000	7,000	7,000	29,500
Total	11,543	4,000	4,500	7,000	7,000	7,000	29,500

Annual Operating Budget Impact (000s)							
Total							

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Fee Administration - Sanitary Sewer

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts N/A
Appropriation A5241

Description This allocation provides funding for the Public Works Development Program to collect Sanitary Sewer Connection Fees.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration	84	84	85	85	85	85	424
Total	84	84	85	85	85	85	424

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sanitary Sewer Connection Fee Fund (540)	84	84	85	85	85	85	424
Total	84	84	85	85	85	85	424

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program
Detail of Ongoing Non-Construction Projects

Flow Monitoring Program (Master Planning)

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A4696

Description This allocation funds a city-wide sanitary sewer master planning effort to identify capacity improvement needs and provides for future updates, flow analysis, and condition assessments.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	520	100	100	100	100	100	500
Design	100						
Maintenance, Repairs, Other	712	825	780	780	780	800	3,965
Total	1,332	925	880	880	880	900	4,465

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	902	825	780	780	780	800	3,965
Sanitary Sewer Connection Fee Fund (540)	430	100	100	100	100	100	500
Total	1,332	925	880	880	880	900	4,465

Sanitary Sewer Capital Program
2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Infrastructure - Sanitary Sewer Condition Assessment

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A6521

Description This allocation funds an ongoing condition assessment program to inspect and evaluate the condition of the existing pipelines and identify the needs for pipeline rehabilitation and/or replacement.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	3,000	3,000	3,000	3,000	3,000	3,000	15,000
Construction	2,631						
Total	5,631	3,000	3,000	3,000	3,000	3,000	15,000

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	5,631	3,000	3,000	3,000	3,000	3,000	15,000
Total	5,631	3,000	3,000	3,000	3,000	3,000	15,000

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program
Detail of Ongoing Non-Construction Projects

Master Planning Updates

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A7242

Description This allocation funds the updates to the sewer system database and computer models based on land use development, sewer system improvements, survey and field investigations, and record research.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	216						
Maintenance, Repairs, Other	1,357	1,965	1,700	1,500	1,400	1,500	8,065
Total	1,573	1,965	1,700	1,500	1,400	1,500	8,065

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	1,384	1,865	1,600	1,400	1,300	1,400	7,565
Sanitary Sewer Connection Fee Fund (540)	189	100	100	100	100	100	500
Total	1,573	1,965	1,700	1,500	1,400	1,500	8,065

Sanitary Sewer Capital Program
2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Payments to West Valley Sanitation District

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts N/A
Appropriation A4230

Description This allocation reimburses the West Valley Sanitation District for the City's share of potential joint sanitary sewer projects within the District's jurisdiction.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration	10	10	10	10	10	10	50
Total	10	10	10	10	10	10	50

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sanitary Sewer Connection Fee Fund (540)	10	10	10	10	10	10	50
Total	10	10	10	10	10	10	50

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Permit Review and Inspection for Outside Agencies - Sanitary Sewer

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A5149

Description This allocation provides for the review and inspection of projects for the Santa Clara Valley Water District (SCVWD) by City staff. As is customary practice between public agencies, as well as State law, the City and SCVWD do not charge one another for these services.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	125

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	125

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program
Detail of Ongoing Non-Construction Projects

Preliminary Engineering - Sanitary Sewer

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A4284

Description This allocation supports preliminary engineering, including surveys and evaluations, that evaluates the potential effects of projects not yet funded in this program.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	950	950	950	950	950	950	4,750
Total	950	950	950	950	950	950	4,750

Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	900	900	900	900	900	900	4,500
Sanitary Sewer Connection Fee Fund (540)	50	50	50	50	50	50	250
Total	950	950	950	950	950	950	4,750

Sanitary Sewer Capital Program
2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Program Management - Sanitary Sewer

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts City-wide
Appropriation A4286

Description This allocation funds the administration and management of this Capital Improvement Program.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration	300	300	300	300	300	300	1,500
Total	300	300	300	300	300	300	1,500

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	250	250	250	250	250	250	1,250
Sanitary Sewer Connection Fee Fund (540)	50	50	50	50	50	50	250
Total	300	300	300	300	300	300	1,500

Sanitary Sewer Capital Program
 2019-2023 Adopted Capital Improvement Program

Detail of Ongoing Non-Construction Projects

Public Works Engineering Services Equipment (Materials Lab)

CSA Environmental and Utility Services
CSA Outcome Reliable Utility Infrastructure
Department Public Works
Council Districts N/A
Appropriation A4135

Description This ongoing allocation funds the purchase of equipment necessary to perform quality assurance testing on materials used in sewer rehabilitation projects.

Notes Selected budget information is not provided due to the ongoing nature of this project.

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Expenditure Schedule (000s)							
Equipment, Materials and Supplies	40	40	40	40	40	40	200
Total	40	40	40	40	40	40	200

	FY18 EST	FY19	FY20	FY21	FY22	FY23	5 YEAR TOTAL
Funding Source Schedule (000s)							
Sewer Service and Use Charge Capital Improvement Fund (545)	40	40	40	40	40	40	200
Total	40	40	40	40	40	40	200



2018-2019 CAPITAL BUDGET

**2019-2023 CAPITAL
IMPROVEMENT PROGRAM**

**SANITARY SEWER
SYSTEM**

**SUMMARY OF PROJECTS THAT
START AFTER 2018-2019**

SUMMARY OF RESERVES

Sanitary Sewer Capital Program
2019-2023 Adopted Capital Improvement Program

Summary of Projects that Start After 2018-2019

Project Name	Almaden Supplement Sewer Rehabilitation (North)	Initial Start Date	3rd Qtr. 2020
5-Yr CIP Budget	\$ 3,130,000	Initial End Date	2nd Qtr. 2022
Total Budget	\$ 3,130,000	Revised Start Date	
Council Districts	7	Revised End Date	
Description	This project will rehabilitate approximately 3,690 feet of 42-inch and 48-inch diameter reinforced concrete pipe with a cured-in-place pipe liner located on East Alma Avenue between Monterey Highway and South 9th Street.		

Sanitary Sewer Capital Program
2019-2023 Adopted Capital Improvement Program

Summary of Reserves

Project Name	Montague Sanitary Sewer Pump Station Reserve	Initial Start Date	N/A
5-Yr CIP Budget	\$ 2,400,000	Initial End Date	N/A
Total Budget	\$ 2,400,000	Revised Start Date	
Council Districts	4	Revised End Date	
Description	This reserve sets aside funding to rehabilitate and/or upgrade the pump station located on First Street and Montague Expressway. Due to real estate-related uncertainties, construction is currently delayed.		
