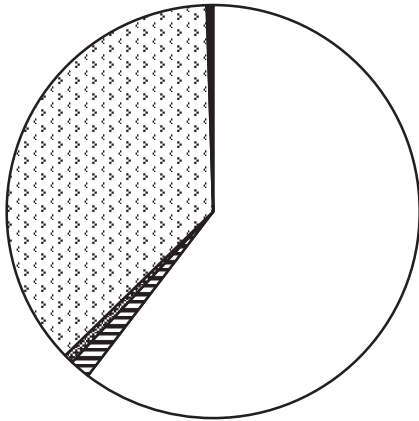


SANITARY SEWER SYSTEM

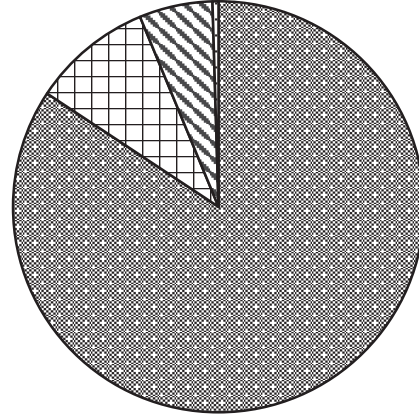
2017-2021 Capital Improvement Program

**2016-2017 Adopted
Source of Funds**



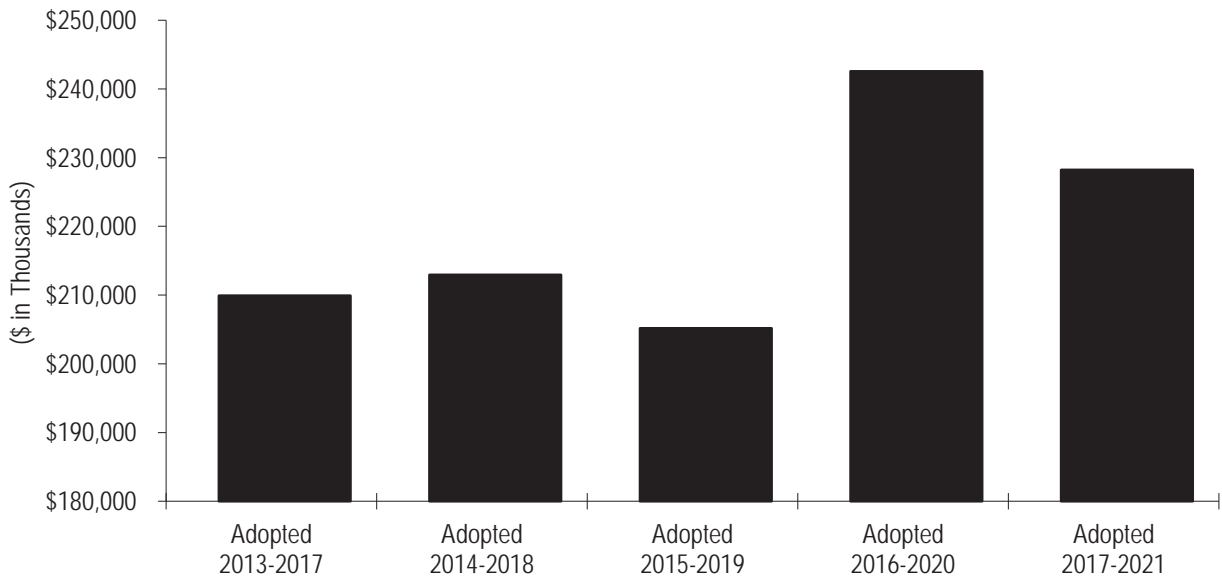
- Beginning Fund Balance
- Other Government Agencies
- ▨ Taxes, Fees and Charges
- Loans & Transfers
- Interest

**2016-2017 Adopted
Use of Funds**



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

CIP History

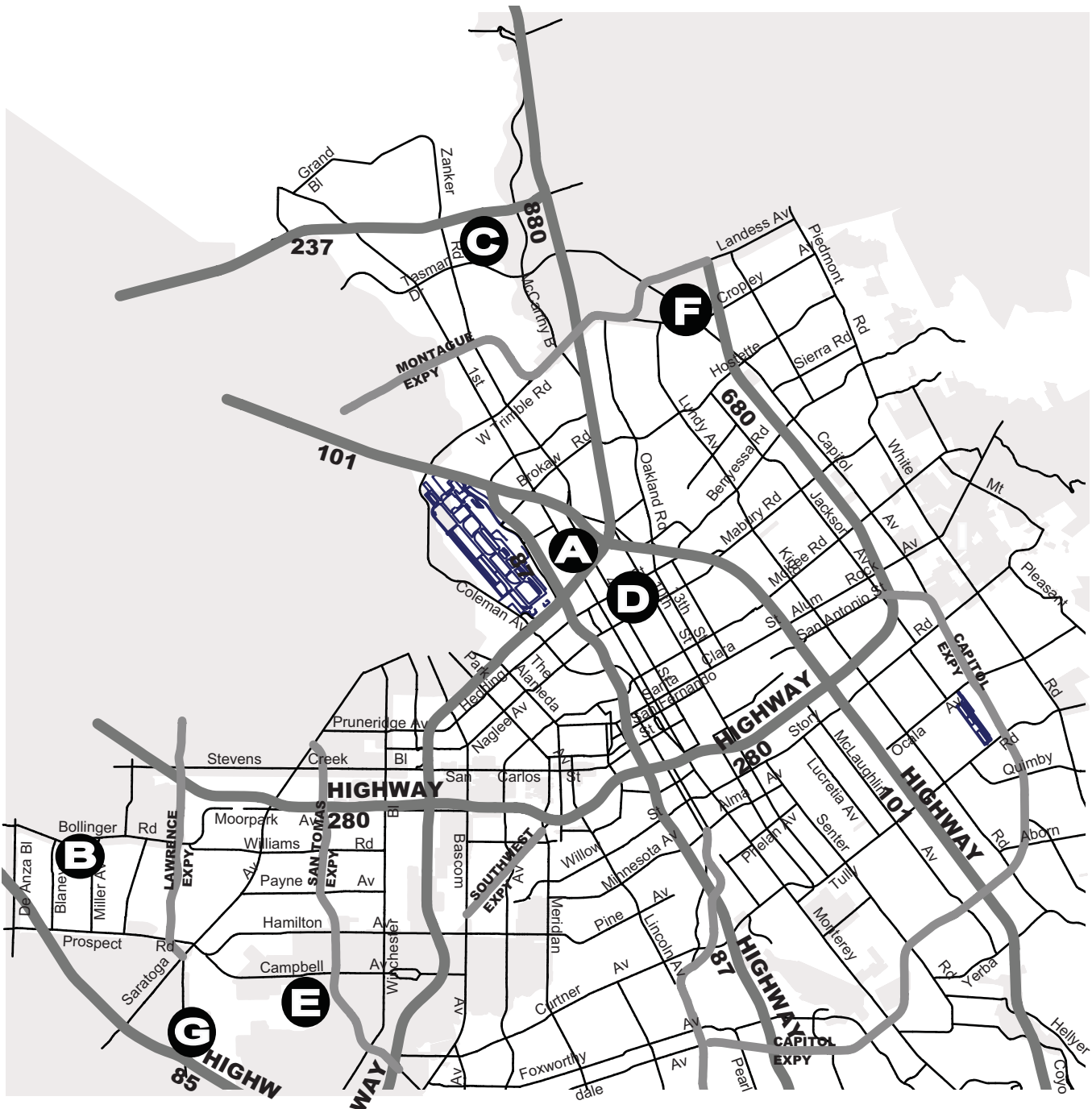


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Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

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



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Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Overview

INTRODUCTION

The Sanitary Sewer System of the City of San José consists of approximately 2,250 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	1,800
10" TO 12" in diameter	200
OVER 12" in diameter	250
NUMBER OF MANHOLES	47,000
NUMBER OF PUMP STATIONS	16

The 2017-2021 Adopted Capital Improvement Program (CIP) provides funding of \$228.2 million, of which \$87.0 million is allocated in 2016-2017. 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 2017-2021 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. 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.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

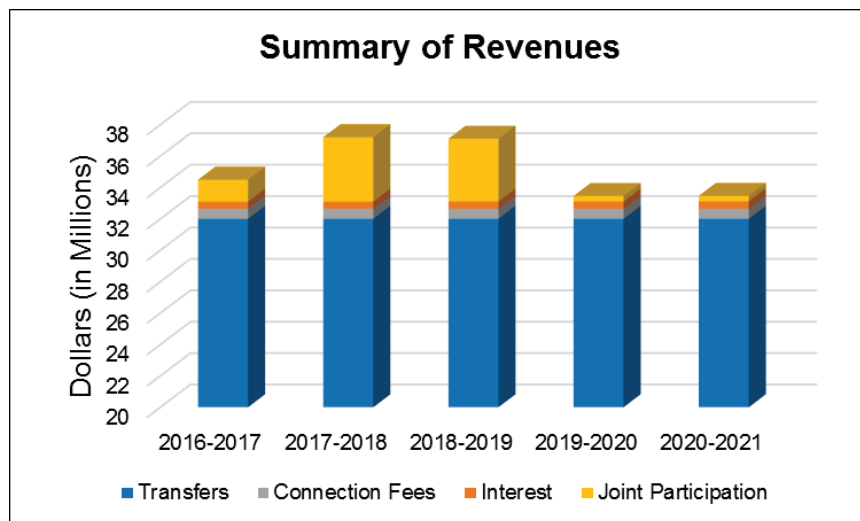
Overview

PROGRAM PRIORITIES AND OBJECTIVES

As identified in the Status Report on Deferred Maintenance and Infrastructure Backlog accepted by City Council on February 9, 2016, the Sanitary Sewer Collection System has estimated unfunded needs of approximately \$2.3 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 2017-2021 Adopted CIP provides funding of \$228.2 million, of which \$87.0 million is allocated in 2016-2017. The program funding level decreased by \$14.4 million from \$242.6 million in the 2016-2020 Adopted CIP, mainly due to the completion of several multi-million dollar projects (anticipated to be completed in 2015-2016) through the five-year CIP. 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.



PROGRAM HIGHLIGHTS

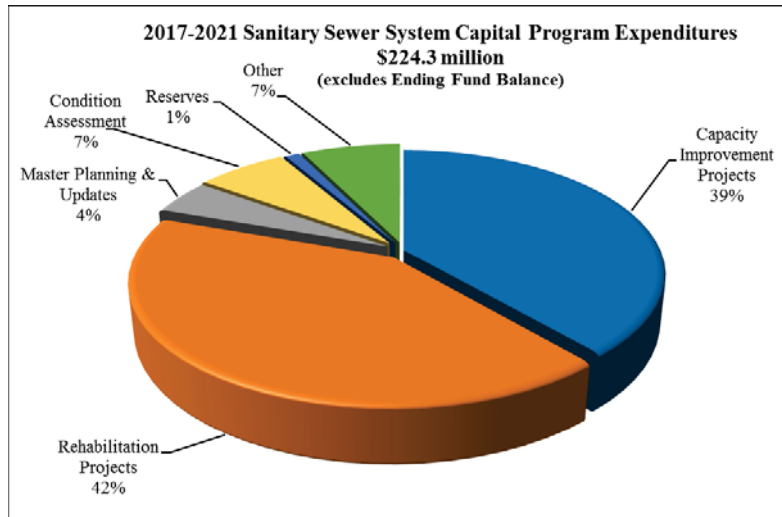
The Sanitary Sewer System Capital Program’s expenditures are organized to show the use of funds in several categories. The following highlights the major projects in the program. For further information on the program’s individual projects, please refer to the Detail Pages.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS



Capacity Improvement and Rehabilitation – North San José Interceptors

Funding totaling \$36.6 million is programmed in this Adopted CIP for the North San José Interceptor System, which consists of the 60” Brick Interceptor, Phase VIA and VIB (\$30.4 million) and Fourth Major Interceptor, Phase VIIA (\$5.5 million) projects for capacity improvement and the Fourth Major Interceptor, Phase IIB/IIIB project (\$686,000) for rehabilitation. 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 2017-2021 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. A new, multi-phased fourth major interceptor is also under construction; five out of seven phases have been completed. When completed, the fourth major interceptor 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

2017-2021 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Capacity Improvement – Other Projects

Various other 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. These projects include work on the interceptors described above, as well as several other projects in this CIP.

Rehabilitation – Other Projects

Funding is also 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.

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.



**Coleman Road
Sanitary Sewer Replacement**

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Overview

MAJOR CHANGES FROM THE 2016-2020 ADOPTED CIP

The overall size of the Sanitary Sewer System CIP has decreased by \$14.4 million from \$242.6 million in the 2016-2020 Adopted CIP to \$228.2 million in the 2017-2021 Adopted CIP, mainly due to the completion of several multi-million dollar projects (anticipated to be completed in 2015-2016) through the five-year CIP. The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

Project	Incr/Decr
Bollinger Road – Moorpark Avenue – Williams Road Sanitary Sewer Improvements	\$8.9 million
30” Old Bayshore Supplement	\$814,000
Rehabilitation of Sanitary Sewer Pump Stations	(\$1.4 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

During the June budget hearings, City Council approved several changes to the Proposed Capital Improvement Program. The rebudgeting of unexpended funding for projects totaling \$8.5 million due to project delays were approved. In addition, additional fund balance of \$563,000 was recognized as a result of a Public Art reconciliation conducted in 2015-2016. For additional information regarding any of these approved actions, please refer to the Manager’s Budget Addendum #30, as approved by the City Council on June 14, 2016.

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2016-2017 CAPITAL BUDGET

2017-2021 CAPITAL IMPROVEMENT PROGRAM

SANITARY SEWER SYSTEM

SOURCE OF FUNDS

USE OF FUNDS

SOURCE AND USE OF FUNDS STATEMENTS

2016-2017 USE OF FUNDS BY FUNDING SOURCE

The Source of Funds displays the capital revenues by funding source for each year of the Five-Year Capital Improvement Program. The Use of Funds displays the capital expenditures by line-item for each year of the five-year period. The Source and Use of Funds Statements display major categories of capital revenues and expenditures for each year over the five-year period. The 2016-2017 Use of Funds by Funding Source displays the funding sources for the capital expenditures that are budgeted in 2016-2017.

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
<u>Sanitary Sewer Connection Fee Fund (540)</u>							
Beginning Fund Balance	10,303,458	2,085,687	520,687	609,687	257,687	415,687	2,085,687 *
Revenue from Other Agencies:							
<u>Sanitary Sewer Joint Participation</u>							
– CSD 2-3/City Joint Projects							
Taxes, Fees and Charges:							
<u>Sanitary Sewer Connection Fees</u>	700,000	650,000	650,000	650,000	650,000	650,000	3,250,000
Interest Income	65,000	59,000	60,000	61,000	62,000	63,000	305,000
Reserve for Encumbrances	1,727,229						
Total Sanitary Sewer Connection Fee Fund	12,795,687	2,794,687	1,230,687	1,320,687	969,687	1,128,687	5,640,687 *
<u>Sewer Service and Use Charge Capital Improvement Fund (545)</u>							
Beginning Fund Balance	68,950,597	50,459,714	4,359,714	3,137,714	881,714	1,026,714	50,459,714 *
Revenue from Other Agencies:							
<u>Other Agencies</u>							
– Reimbursements - WVSD/CUSD/Other City Joint Projects	70,000	1,400,000	4,100,000	4,000,000	350,000	350,000	10,200,000
Contributions, Loans and Transfers from:							
<u>Special Funds</u>							
– Transfer from Sewer Service and Use Charge Fund	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Interest Income	480,000	380,000	384,000	388,000	392,000	396,000	1,940,000
Reserve for Encumbrances	14,840,117						
Total Sewer Service and Use Charge Capital Improvement	116,340,714	84,239,714	40,843,714	39,525,714	33,623,714	33,772,714	222,599,714 *

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS (CONT'D.)	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
<u>Sewer Service and Use Charge Capital Improvement Fund (545)</u>							
Fund							
TOTAL SOURCE OF FUNDS	129,136,401	87,034,401	42,074,401	40,846,401	34,593,401	34,901,401	228,240,401 *

* The 2017-2018 through 2020-2021 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
Construction Projects							
Public Art	116,000	1,144,000	110,000	148,000	89,000	50,000	1,541,000
Capacity Improvement Projects							
Almaden Expressway Sanitary Sewer Improvements	690,000						
Coleman Road Sanitary Sewer Improvements - Phase 3	974,000						
Fourth Major Interceptor, Phase VIIA				500,000	5,000,000		5,500,000
Husted Avenue Sanitary Sewer Improvement - Phase II	3,326,000						
Husted-Richland Sanitary Sewer Improvements	77,000	40,000					40,000
Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements			3,118,000	349,000			3,467,000
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements			561,000	3,142,000	372,000		4,075,000
1. 30" Old Bayshore Supplement	3,840,000	1,363,000					1,363,000
2. 60" Brick Interceptor, Phase VIA and VIB	944,000	29,038,000	828,000	515,000			30,381,000
3. Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	3,310,000	953,000		7,905,000	638,000	35,000	9,531,000
4. Capitol Avenue Sanitary Sewer Improvements	1,710,000	793,000					793,000
5. Coleman Road Sanitary Sewer Improvements	1,192,000	497,000					497,000
6. Immediate Replacement and Diversion Projects	6,764,000	6,800,000	6,500,000	3,000,000	3,000,000	5,000,000	24,300,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
Construction Projects							
Capacity Improvement Projects							
7. Monterey-Riverside Relief Sanitary Sewer Improvements	6,762,000	781,000					781,000
8. Stevens Creek Boulevard Sanitary Sewer Improvements	2,538,000	632,000					632,000
9. Trimble Road and Capewood Lane Sanitary Sewer Improvements	213,000	5,140,000					5,140,000
Total Capacity Improvement Projects	32,340,000	46,037,000	11,007,000	15,411,000	9,010,000	5,035,000	86,500,000
Rehabilitation Projects							
11th Street Sanitary Sewer Replacement	1,556,000						
Almaden Supplement Sewer Rehabilitation (North)						2,730,000	2,730,000
Alum Rock Avenue Sanitary Sewer Replacement	630,000						
Cast Iron Pipe Replacement - West	1,169,000						
Kelez Drive and El Prado Drive Sanitary Sewer Replacement	868,000	50,000					50,000
Mackey Avenue Sanitary Sewer Replacement	264,000						
Minnesota Avenue Sanitary Sewer Improvements	104,000						
Spreckles Sanitary Sewer Force Main Supplement	535,000	100,000					100,000
Story Road Easement Sanitary Sewer Replacement	479,000						

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
Construction Projects							
Rehabilitation Projects							
The Villages Sanitary Sewer Replacement	1,012,000						
10. Cast Iron Pipe - Remove and Replace	4,601,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	22,500,000
11. Condition Assessment Sewer Repairs	6,604,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	27,500,000
12. Fourth Major Interceptor, Phase IIB/IIIB	2,517,000	686,000					686,000
13. Inflow and Infiltration Reduction	508,000	200,000	200,000	200,000	200,000	200,000	1,000,000
14. Rehabilitation of Sanitary Sewer Pump Stations	1,309,000	4,298,000					4,298,000
15. Reinforced Concrete Pipe Rehabilitation Program	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
16. Spreckles Sanitary Sewer Force Main Supplement, Phase II	2,859,000	325,000					325,000
17. Urgent Rehabilitation and Repair Projects	7,860,000	8,000,000	8,000,000	5,000,000	6,000,000	5,000,000	32,000,000
Total Rehabilitation Projects	33,375,000	24,159,000	18,700,000	15,700,000	16,700,000	18,430,000	93,689,000
Total Construction Projects	65,831,000	71,340,000	29,817,000	31,259,000	25,799,000	23,515,000	181,730,000
Non-Construction							
General Non-Construction							
Capital Program and Public Works Department Support Service Costs	1,214,000	1,594,000	1,674,000	1,533,000	398,000	406,000	5,605,000
Infrastructure Management System	37,000	30,000	32,000	34,000	36,000	38,000	170,000
18. Fee Administration	81,000	84,000	84,000	84,000	85,000	85,000	422,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
Non-Construction							
General Non-Construction							
19. Flow Monitoring Program (Master Planning)	1,903,000	760,000	760,000	770,000	780,000	780,000	3,850,000
20. Infrastructure - Sanitary Sewer Condition Assessment	4,520,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
21. Master Planning Updates	1,086,000	1,200,000	1,230,000	1,264,000	1,290,000	1,326,000	6,310,000
22. Payments to West Valley Sanitation District	10,000	10,000	10,000	10,000	10,000	10,000	50,000
23. Permit Review and Inspection for Outside Agencies	50,000	50,000	25,000	25,000	25,000	25,000	150,000
24. Preliminary Engineering	950,000	950,000	950,000	950,000	950,000	950,000	4,750,000
25. Program Management	475,000	300,000	300,000	300,000	300,000	300,000	1,500,000
26. Public Works Engineering Services Equipment (Materials Lab)	40,000	40,000	40,000	40,000	40,000	40,000	200,000
Total General Non-Construction	10,366,000	8,018,000	8,105,000	8,010,000	6,914,000	6,960,000	38,007,000
Contributions, Loans and Transfers to General Fund							
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	44,000	7,000					7,000
Total Contributions, Loans and Transfers to General Fund	44,000	7,000					7,000
Contributions, Loans and Transfers to Special Funds							
Transfer to the City Hall Debt Service Fund	350,000	389,000	405,000	438,000	438,000	438,000	2,108,000
Total Contributions, Loans and Transfers to Special Funds	350,000	389,000	405,000	438,000	438,000	438,000	2,108,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
Non-Construction							
Reserves							
Montague Sanitary Sewer Pump Station Reserve		2,400,000					2,400,000
Total Reserves		2,400,000					2,400,000
Total Non-Construction	10,760,000	10,814,000	8,510,000	8,448,000	7,352,000	7,398,000	42,522,000
Ending Fund Balance	52,545,401	4,880,401	3,747,401	1,139,401	1,442,401	3,988,401	3,988,401*
TOTAL USE OF FUNDS	129,136,401	87,034,401	42,074,401	40,846,401	34,593,401	34,901,401	228,240,401*

* The 2016-2017 through 2019-2020 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Sanitary Sewer Connection Fee Fund (540)

Statement of Source and Use of Funds

	<u>Estimated 2015-2016</u>	<u>2016-2017</u>	<u>2017-2018</u>	<u>2018-2019</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>5-Year Total</u>
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	10,303,458	2,085,687	520,687	609,687	257,687	415,687	2,085,687
Interest Income	65,000	59,000	60,000	61,000	62,000	63,000	305,000
Reserve for Encumbrances	1,727,229						
Revenue from Other Agencies							
Taxes, Fees and Charges	700,000	650,000	650,000	650,000	650,000	650,000	3,250,000
TOTAL SOURCE OF FUNDS	<u>12,795,687</u>	<u>2,794,687</u>	<u>1,230,687</u>	<u>1,320,687</u>	<u>969,687</u>	<u>1,128,687</u>	<u>5,640,687</u>
<u>USE OF FUNDS</u>							
Construction Projects	8,951,000	1,163,000		610,000	100,000		1,873,000
Contributions, Loans and Transfers	28,000	36,000	37,000	40,000	40,000	40,000	193,000
Non-Construction	1,731,000	1,075,000	584,000	413,000	414,000	414,000	2,900,000
Reserves							
Ending Fund Balance **	2,085,687	520,687	609,687	257,687	415,687	674,687	674,687
TOTAL USE OF FUNDS	<u>12,795,687</u>	<u>2,794,687</u>	<u>1,230,687</u>	<u>1,320,687</u>	<u>969,687</u>	<u>1,128,687</u>	<u>5,640,687</u>

* The 2017-2018 through 2020-2021 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2016-2017 through 2019-2020 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Sewer Service and Use Charge Capital Improvement Fund (545)

Statement of Source and Use of Funds

	Estimated 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	68,950,597	50,459,714	4,359,714	3,137,714	881,714	1,026,714	50,459,714
Contributions, Loans and Transfers	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Interest Income	480,000	380,000	384,000	388,000	392,000	396,000	1,940,000
Reserve for Encumbrances	14,840,117						
Revenue from Other Agencies	70,000	1,400,000	4,100,000	4,000,000	350,000	350,000	10,200,000
TOTAL SOURCE OF FUNDS	116,340,714	84,239,714	40,843,714	39,525,714	33,623,714	33,772,714	222,599,714
<u>USE OF FUNDS</u>							
Construction Projects	56,880,000	70,177,000	29,817,000	30,649,000	25,699,000	23,515,000	179,857,000
Contributions, Loans and Transfers	366,000	360,000	368,000	398,000	398,000	398,000	1,922,000
Non-Construction	8,635,000	6,943,000	7,521,000	7,597,000	6,500,000	6,546,000	35,107,000
Reserves		2,400,000					2,400,000
Ending Fund Balance **	50,459,714	4,359,714	3,137,714	881,714	1,026,714	3,313,714	3,313,714
TOTAL USE OF FUNDS	116,340,714	84,239,714	40,843,714	39,525,714	33,623,714	33,772,714	222,599,714

* The 2017-2018 through 2020-2021 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2016-2017 through 2019-2020 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
2016-2017 Use of Funds by Funding Source

	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
TOTAL RESOURCES	2,794,687	84,239,714	87,034,401
<u>Construction Projects</u>			
Public Art		1,144,000	1,144,000

Capacity Improvement Projects

Husted-Richland Sanitary Sewer Improvements		40,000	40,000
1. 30" Old Bayshore Supplement		1,363,000	1,363,000
2. 60" Brick Interceptor, Phase VIA and VIB		29,038,000	29,038,000
3. Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements		953,000	953,000
4. Capitol Avenue Sanitary Sewer Improvements	190,000	603,000	793,000
5. Coleman Road Sanitary Sewer Improvements		497,000	497,000
6. Immediate Replacement and Diversion Projects	800,000	6,000,000	6,800,000
7. Monterey-Riverside Relief Sanitary Sewer Improvements		781,000	781,000
8. Stevens Creek Boulevard Sanitary Sewer Improvements		632,000	632,000
9. Trimble Road and Capewood Lane Sanitary Sewer Improvements	173,000	4,967,000	5,140,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
2016-2017 Use of Funds by Funding Source

	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
<u>Construction Projects</u>			
Capacity Improvement Projects			
Total Capacity Improvement Projects	1,163,000	44,874,000	46,037,000
Rehabilitation Projects			
Kelez Drive and El Prado Drive Sanitary Sewer Replacement		50,000	50,000
Spreckles Sanitary Sewer Force Main Supplement		100,000	100,000
10. Cast Iron Pipe - Remove and Replace		4,500,000	4,500,000
11. Condition Assessment Sewer Repairs		5,500,000	5,500,000
12. Fourth Major Interceptor, Phase IIB/IIIB		686,000	686,000
13. Inflow and Infiltration Reduction		200,000	200,000
14. Rehabilitation of Sanitary Sewer Pump Stations		4,298,000	4,298,000
15. Reinforced Concrete Pipe Rehabilitation Program		500,000	500,000
16. Spreckles Sanitary Sewer Force Main Supplement, Phase II		325,000	325,000
17. Urgent Rehabilitation and Repair Projects		8,000,000	8,000,000
Total Rehabilitation Projects		24,159,000	24,159,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
2016-2017 Use of Funds by Funding Source

	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
<u>Construction Projects</u>			
<u>Total Construction Projects</u>	1,163,000	70,177,000	71,340,000
<u>Non-Construction</u>			
General Non-Construction			
Capital Program and Public Works Department Support Service Costs Infrastructure Management System	181,000	1,413,000	1,594,000
18. Fee Administration	84,000	30,000	84,000
19. Flow Monitoring Program (Master Planning)	400,000	360,000	760,000
20. Infrastructure - Sanitary Sewer Condition Assessment		3,000,000	3,000,000
21. Master Planning Updates	300,000	900,000	1,200,000
22. Payments to West Valley Sanitation District	10,000		10,000
23. Permit Review and Inspection for Outside Agencies		50,000	50,000
24. Preliminary Engineering	50,000	900,000	950,000
25. Program Management	50,000	250,000	300,000
26. Public Works Engineering Services Equipment (Materials Lab)		40,000	40,000
Total General Non-Construction	1,075,000	6,943,000	8,018,000

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
2016-2017 Use of Funds by Funding Source

	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
<u>Non-Construction</u>			
Contributions, Loans and Transfers to General Fund			
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	1,000	6,000	7,000
Total Contributions, Loans and Transfers to General Fund	1,000	6,000	7,000
Contributions, Loans and Transfers to Special Funds			
Transfer to the City Hall Debt Service Fund	35,000	354,000	389,000
Total Contributions, Loans and Transfers to Special Funds	35,000	354,000	389,000
Reserves			
Montague Sanitary Sewer Pump Station Reserve		2,400,000	2,400,000
Total Reserves		2,400,000	2,400,000
<u>Total Non-Construction</u>	1,111,000	9,703,000	10,814,000
Ending Fund Balance	520,687	4,359,714	4,880,401
TOTAL USE OF FUNDS	2,794,687	84,239,714	87,034,401

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2016-2017 CAPITAL BUDGET

2017-2021 CAPITAL IMPROVEMENT PROGRAM

SANITARY SEWER SYSTEM

DETAIL OF CONSTRUCTION PROJECTS

DETAIL OF NON-CONSTRUCTION PROJECTS

The Detail of Construction Projects section provides information on the individual construction projects with funding in 2016-2017. The Detail of Non-Construction Projects section is abbreviated and provides information on the individual non-construction project, with funding in 2016-2017. On the Use of Funds statement, these projects are numbered.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

1. 30" Old Bayshore Supplement

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2008
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2010
Council District: 4 **Revised Completion Date:** 2nd Qtr. 2017
Location: Old Bayshore Highway between Commercial Street and Zanker Road
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	134										134
Design	307										307
Bid & Award	2										2
Construction		4,306	3,840	1,308					1,308		5,148
Post Construction		34		55					55		55
TOTAL	443	4,340	3,840	1,363					1,363		5,646

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer Connection Fee Fund	130	1,551	1,551								1,681
Sewer Service And Use Charge Capital Improvement Fund	313	2,789	2,289	1,363					1,363		3,965
TOTAL	443	4,340	3,840	1,363					1,363		5,646

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

- 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.

Notes:

FY Initiated: 2008-2009 **Appn. #:** 6519
Initial Project Budget: \$4,854,000 **USGBC LEED:** N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

2. 60" Brick Interceptor, Phase VIA and VIB

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2009
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2013
Council District:	3, 4	Revised Completion Date:	2nd Qtr. 2019
Location:	From 5th and Commercial Streets to Zanker Road and Old Bayshore Highway		

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. The start and completion dates above refer to Phase VIA. The prior year funding in the chart below includes earlier phases of this project, and 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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	63										63
Design	4,140		944								5,084
Bid & Award	10			18					18		28
Construction	32,932	29,981		29,020	828	442			30,290		63,222
Post Construction	9					73			73		82
TOTAL	37,154	29,981	944	29,038	828	515			30,381		68,479

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer	186										186
Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund	36,968	29,981	944	29,038	828	515			30,381		68,293
TOTAL	37,154	29,981	944	29,038	828	515			30,381		68,479

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

Prior to 2008-2009 - Increase of \$60.8 million due to changes in scope, construction costs, and additional project phases. 2009-2013 CIP - Decrease of \$2.2 million to address scope changes and construction costs. 2010-2014 CIP - Increase of \$6.7 million to address scope changes and construction costs. 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.

Notes:

The FY Initiated date and Initial Project Budget shown below refer to Phase IIIA, IVB, and VB of the project. The costs for Phase VIB will be determined after Phase VIA is completed to determine the scope of Phase VIB.

FY Initiated:	1991-1992	Appn. #:	4969
Initial Project Budget:	\$10,442,000	USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

3. Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2012
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2015
Council District: 1 **Revised Completion Date:** 2nd Qtr. 2021
Location: Blaney Avenue, Bollinger Road, Moorpark Avenue and Williams Road to Saratoga Avenue

Description: The project will include 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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		26									26
Design	374	150	150			116			116		640
Bid & Award		30	30			31			31		61
Construction		3,709	3,130	926		7,758	610		9,294		12,424
Post Construction		21		27			28	35	90		90
TOTAL	400	3,910	3,310	953		7,905	638	35	9,531		13,241

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		577	577			500			500		1,077
Sewer Service And Use Charge Capital Improvement Fund	400	3,333	2,733	953		7,405	638	35	9,031		12,164
TOTAL	400	3,910	3,310	953		7,905	638	35	9,531		13,241

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

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.

Notes:

CEQA Project: FSR-7 - Bollinger Road - Blaney Avenue Sanitary Sewer Improvements. Prior to 2015-2016, this project was titled "Bollinger Road - Blaney Avenue Sanitary Sewer Improvements". Phase 1 construction began in 2015-2016, while Phase 2 construction is anticipated to begin in 2018-2019 after the paving moratorium ends for this phase.

FY Initiated: 2012-2013 **Appn. #:** 7606 , 7478

Initial Project Budget: \$5,404,000 **USGBC LEED:** N/A

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Construction Projects

4. Capitol Avenue Sanitary Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2014
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2015
Council District: 4 **Revised Completion Date:** 4th Qtr. 2016
Location: Capitol Avenue north of Battaglia Court to Hostetter Road
Description: This project replaces approximately 3,520 feet of existing 8-inch diameter sanitary sewer pipes with 12-inch diameter sanitary sewer pipes on Capitol Avenue, north of Battaglia Court to Hostetter Road.
Justification: Requiring capacity improvement, the existing sanitary sewer pipes in this area need to be upsized.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	81										81
Design	28										28
Bid & Award		60	60								60
Construction		2,360	1,650	763					763		2,413
Post Construction		30		30					30		30
TOTAL	109	2,450	1,710	793					793		2,612

FUNDING SOURCE SCHEDULE (000'S)											
	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer		870	600	190					190		790
Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund	109	1,580	1,110	603					603		1,822
TOTAL	109	2,450	1,710	793					793		2,612

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2016-2020 CIP - Decrease of \$31,000 due to refined cost estimates.
 2017-2021 CIP - Decrease of \$130,000 due to refined cost estimates.

Notes:

CEQA Project: Brokaw 3 - Capitol Avenue Sanitary Sewer Improvement.
 2015-2019 CIP - Project retitled from "Capitol Avenue Sanitary Sewer Improvement - Brokaw Street".

FY Initiated: 2014-2015 **Appn. #:** 7673
Initial Project Budget: \$2,773,000 **USGBC LEED:** N/A

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Construction Projects

5. Coleman Road Sanitary Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2013
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2015
Council District: 10 **Revised Completion Date:** 4th Qtr. 2016
Location: Coleman Road from Camden Avenue to Alvarado Court
Description: This project upsizes approximately 1,400 feet of 8-inch diameter sanitary sewer pipes along Coleman Road from Camden Avenue to Alvarado Court.
Justification: This project will provide additional capacity of the Almaden Basin as identified in the Sanitary Sewer Master Plan Capacity Assessment Phase II and Phase I - Update.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	96										96
Design	26	5	5								31
Bid & Award		10	10								10
Construction		1,445	1,177	486					486		1,663
Post Construction		12		11					11		11
TOTAL	122	1,472	1,192	497					497		1,811

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		20	20								20
Sewer Service And Use Charge Capital Improvement Fund	122	1,452	1,172	497					497		1,791
TOTAL	122	1,472	1,192	497					497		1,811

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$123,000 due to defined scope and estimates that were developed during the preliminary phase of the project.

2016-2020 CIP - Increase of \$238,000 due to a refined project scope and cost estimate.

2017-2021 CIP - Increase of \$217,000 due to a refined project scope and cost estimate.

Notes:

CEQA Project: Almaden 3A - Coleman Road Sanitary Sewer Improvements.

FY Initiated: 2013-2014 **Appn. #:** 7613
Initial Project Budget: \$1,233,000 **USGBC LEED:** N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

6. Immediate Replacement and Diversion Projects

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development Property & Land		60	40	40	40	30	30	35	175		
Design		700	500	500	500	300	300	400	2,000		
Bid & Award		30	30	30	30	10	10	20	100		
Construction		6,714	6,164	6,220	5,920	2,650	2,650	4,535	21,975		
Post Construction		60	30	10	10	10	10	10	50		
TOTAL		7,564	6,764	6,800	6,500	3,000	3,000	5,000	24,300		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund	2,216	1,416	800						800		
Sewer Service And Use Charge Capital Improvement Fund	5,348	5,348	6,000	6,500	3,000	3,000	5,000		23,500		
TOTAL	7,564	6,764	6,800	6,500	3,000	3,000	5,000		24,300		

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. Prior to 2012-2013, this project was titled "Miscellaneous Projects".

FY Initiated:	Ongoing	Appn. #:	4272
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

7. Monterey-Riverside Relief Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2011
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	2	Revised Completion Date:	4th Qtr. 2016
Location:	Along Cottle Road between Beswick Drive and Monterey Highway		

Description: This project installs approximately 4,100 linear feet of 30-inch vitrified clay pipe along Cottle Road between Beswick Drive and Monterey Highway. This is a relief sewer connecting the Monterey-Riverside system to the Edenvale system. This alignment will include a trenchless perpendicular crossing of the Union Pacific railroad tracks along Monterey Highway.

Justification: This project will provide additional capacity for the Monterey-Riverside sanitary sewer system by constructing a relief sewer that diverts a portion of the sewage flow from the Monterey-Riverside sanitary sewer system to the Edenvale system.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		36									36
Design		799									799
Bid & Award		60									60
Construction		7,440	6,762	754					754		7,516
Post Construction		22		27					27		27
TOTAL		895	7,462	6,762	781				781		8,438

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		2,500	2,500								2,500
Sewer Service And Use Charge Capital Improvement Fund	895	4,962	4,262	781					781		5,938
TOTAL		895	7,462	6,762	781				781		8,438

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$447,000 due to increased project scope.

2015-2019 CIP - Increase of \$1.1 million to construct a new diversion structure to accommodate additional flow coming from private development.

2016-2020 CIP - Increase of \$3.1 million due to a refined project scope and actual bids received.

2017-2021 CIP - Increase of \$81,000 due to refined cost estimates.

Notes:

FY Initiated:	2011-2012	Appn. #:	7359
Initial Project Budget:	\$3,665,000	USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

8. Stevens Creek Boulevard Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2012
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	1	Revised Completion Date:	2nd Qtr. 2017
Location:	Stevens Creek Boulevard from Saratoga Avenue to Cronin Drive		

Description: This project upsizes the existing sanitary sewer system by removing approximately 7,500 linear feet of 8-inch and 10-inch sewer pipes and replacing them with 18-inch sewer pipes along Stevens Creek Boulevard from Saratoga Avenue to Cronin Drive.

Justification: This project is needed to increase capacity in the system as identified in the Sanitary Sewer Master Plan Capacity Assessment Phase II and Phase I - Update.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	115										115
Design	193										193
Bid & Award		5	5								5
Construction		2,898	2,533	557					557		3,090
Post Construction		35		75					75		75
TOTAL	308	2,938	2,538	632					632		3,478

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer		1,288	1,288								1,288
Connection Fee Fund											
Sewer Service And Use	308	1,650	1,250	632					632		2,190
Charge Capital Improvement Fund											
TOTAL	308	2,938	2,538	632					632		3,478

ANNUAL OPERATING BUDGET IMPACT (000'S)										
None										

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$339,000 due to an additional study required to accommodate the operations from car dealers along Stevens Creek Boulevard which was anticipated to increase construction costs.
 2016-2020 CIP - Decrease of \$135,000 due to refining of project scope and cost estimate.
 2017-2021 CIP - Increase of \$232,000 to reflect an increase in construction costs.

Notes:

CEQA Project: FSR11 - Stevens Creek Boulevard Sanitary Sewer Improvements.

FY Initiated:	2012-2013	Appn. #:	7473
Initial Project Budget:	\$3,042,000	USGBC LEED:	N/A

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Construction Projects

9. Trimble Road and Capewood Lane Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	2nd Qtr. 2014
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2016
Council District:	4	Revised Completion Date:	2nd Qtr. 2017
Location:	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		
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 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.		

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	155	100	200								355
Design	14	413	13	597					597		624
Bid & Award				14					14		14
Construction				4,513					4,513		4,513
Post Construction				16					16		16
TOTAL	169	513	213	5,140					5,140		5,522

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer Connection Fee Fund				173					173		173
Sewer Service And Use Charge Capital Improvement Fund	169	513	213	4,967					4,967		5,349
TOTAL	169	513	213	5,140					5,140		5,522

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$92,000 due to a refined project scope and annual estimate.
 2016-2020 CIP - Increase of \$20,000 due to a refined project scope and cost estimate.
 2017-2021 CIP - Increase of \$177,000 due to a refined project scope and cost estimate.

Notes:

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

FY Initiated:	2013-2014	Appn. #:	7620
Initial Project Budget:	\$5,233,000	USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

10. Cast Iron Pipe - Remove and Replace

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		50	50	50	50	50	50	50	250		
Design		600	600	200	200	200	200	200	1,000		
Bid & Award		50	50	20	20	20	20	20	100		
Construction		3,896	3,896	4,220	4,220	4,220	4,220	4,220	21,100		
Post Construction		5	5	10	10	10	10	10	50		
TOTAL		4,601	4,601	4,500	4,500	4,500	4,500	4,500	22,500		

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund		4,601	4,601	4,500	4,500	4,500	4,500	4,500	22,500
TOTAL		4,601	4,601	4,500	4,500	4,500	4,500	4,500	22,500

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

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

FY Initiated:	Ongoing	Appn. #:	7472
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

11. Condition Assessment Sewer Repairs

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		100	100	4	4	4	4	4	20		
Design		500	300	200	200	200	200	200	1,000		
Bid & Award		30	30	10	10	10	10	10	50		
Construction		5,964	6,164	5,276	5,276	5,276	5,276	5,276	26,380		
Post Construction		10	10	10	10	10	10	10	50		
TOTAL		6,604	6,604	5,500	5,500	5,500	5,500	5,500	27,500		

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund		6,604	6,604	5,500	5,500	5,500	5,500	5,500	27,500
TOTAL		6,604	6,604	5,500	5,500	5,500	5,500	5,500	27,500

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

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

FY Initiated:	Ongoing	Appn. #:	7356
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

13. Inflow and Infiltration Reduction

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development Design Bid & Award Construction Post Construction		508	508	200	200	200	200	200	1,000		
TOTAL		508	508	200	200	200	200	200	1,000		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund	8	8									
Sewer Service And Use Charge Capital Improvement Fund		500	500	200	200	200	200	200	1,000		
TOTAL		508	508	200	200	200	200	200	1,000		

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. This allocation was formerly titled "Infiltration Reduction".

FY Initiated:	Ongoing	Appn. #:	6444
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

14. Rehabilitation of Sanitary Sewer Pump Stations

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2008
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2009
Council District:	City-wide	Revised Completion Date:	2nd Qtr. 2017
Location:	City-wide		

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. The average age of the City's sanitary sewer pump stations is 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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	199			22					22		221
Design	842		50	165					165		1,057
Bid & Award	1		10	10					10		21
Construction	596	6,909	1,249	4,091					4,091		5,936
Post Construction				10					10		10
TOTAL	1,638	6,909	1,309	4,298					4,298		7,245

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	1,638	6,909	1,309	4,298					4,298		7,245
TOTAL	1,638	6,909	1,309	4,298					4,298		7,245

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2010-2014 CIP - Increase of \$500,000 to rehabilitate additional sanitary sewer pump stations.
 2011-2015 CIP - Increase of \$500,000 to rehabilitate additional sanitary sewer pump stations.
 2012-2016 CIP - Increase of \$8.0 million to rehabilitate additional sanitary sewer pump stations.
 2013-2017 CIP - Decrease of \$2.9 million because a portion of the work in this project will now be addressed under the new Cast Iron Pipe - Remove and Replace project.
 2014-2018 CIP - Increase of \$1.2 million to rehabilitate additional sanitary sewer pump stations.
 2016-2020 CIP - Increase of \$890,000 to rehabilitate additional sanitary sewer pump stations.
 2017-2021 CIP - Decrease of \$1.4 million due to changes in project scope and the reallocation of \$2.4 million to establish the Montague Sanitary Sewer Pump Station Reserve.

Notes:

FY Initiated:	2008-2009	Appn. #:	6527
Initial Project Budget:	\$500,000	USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

15. Reinforced Concrete Pipe Rehabilitation Program

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		35	35	35	35	35	35	35	175		
Design		140	140	140	140	140	140	140	700		
Bid & Award		5	5	5	5	5	5	5	25		
Construction		315	315	315	315	315	315	315	1,575		
Post Construction		5	5	5	5	5	5	5	25		
TOTAL		500	500	500	500	500	500	500	2,500		

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund		500	500	500	500	500	500	500	2,500
TOTAL		500	500	500	500	500	500	500	2,500

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

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

FY Initiated:	Ongoing	Appn. #:	7361
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Detail of Construction Projects

16. Spreckles Sanitary Sewer Force Main Supplement, Phase II

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2015
Council District:	4	Revised Completion Date:	2nd Qtr. 2017
Location:	Within the westerly side of the Regional Wastewater Facility off of Los Esteros Road in the Alviso area		
Description:	The project funds the installation of 2,200 feet of new force main pipe along the westerly side of the Regional Wastewater Facility property. There will be two trenchless crossings required.		
Justification:	This project reduces the frequency of maintenance activity performed by the Department of Transportation.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development	99										99
Design	323	56	56								379
Bid & Award		15	15								15
Construction		2,770	2,770	308					308		3,078
Post Construction		18	18	17					17		35
TOTAL	422	2,859	2,859	325					325		3,606

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	422	2,859	2,859	325					325		3,606
TOTAL	422	2,859	2,859	325					325		3,606

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$146,000 due to an adjusted estimate based on the completed Spreckles Force Main project.
 2016-2020 CIP - Increase of \$1.2 million to accommodate rerouting of the force main in the Regional Wastewater Facility due to conflict with other pipelines and future development in the facility.
 2017-2021 CIP - Increase of \$269,000 due to a refined annual estimate.

Notes:

FY Initiated:	2013-2014	Appn. #:	7616
Initial Project Budget:	\$1,988,000	USGBC LEED:	N/A

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Construction Projects

17. Urgent Rehabilitation and Repair Projects

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development											
Property & Land											
Design		800	500	600	600	300	400	300	2,200		
Bid & Award		40	40	40	40	40	40	40	200		
Construction		7,020	7,320	7,340	7,340	4,650	5,550	4,650	29,530		
Post Construction				20	20	10	10	10	70		
TOTAL		7,860	7,860	8,000	8,000	5,000	6,000	5,000	32,000		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund		7,860	7,860	8,000	8,000	5,000	6,000	5,000	32,000		
TOTAL		7,860	7,860	8,000	8,000	5,000	6,000	5,000	32,000		

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. Prior to 2012-2013, this project was titled "Miscellaneous Rehabilitation Projects".

FY Initiated:	Ongoing	Appn. #:	4271
Initial Project Budget:		USGBC LEED:	N/A

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Non-Construction Projects

18. Fee Administration

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding for the Public Works Development Program to collect Sanitary Sewer Connection Fees.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Program Management		81	81	84	84	84	85	85	422		
TOTAL		81	81	84	84	84	85	85	422		

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		81	81	84	84	84	85	85	422		
TOTAL		81	81	84	84	84	85	85	422		

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

Appn. #: 5241

19. Flow Monitoring Program (Master Planning)

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		3,103	1,903	760	760	770	780	780	3,850		
TOTAL		3,103	1,903	760	760	770	780	780	3,850		

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		1,221	821	400	100	100	100	100	800		
Sewer Service And Use Charge Capital Improvement Fund		1,882	1,082	360	660	670	680	680	3,050		
TOTAL		3,103	1,903	760	760	770	780	780	3,850		

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

Appn. #: 4964, 4696

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Non-Construction Projects

20. Infrastructure - Sanitary Sewer Condition Assessment

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		4,520	4,520	3,000	3,000	3,000	3,000	3,000	15,000		
TOTAL		4,520	4,520	3,000	3,000	3,000	3,000	3,000	15,000		
FUNDING SOURCE SCHEDULE (000'S)											
Sewer Service And Use Charge Capital Improvement Fund		4,520	4,520	3,000	3,000	3,000	3,000	3,000	15,000		
TOTAL		4,520	4,520	3,000	3,000	3,000	3,000	3,000	15,000		

Notes:

Selected budget information is not provided due to the ongoing nature of this project. Prior to 2012-2013, this was a finite project, but was made an ongoing project due to ongoing needs for condition assessment, particularly in light of State Water Board and Environmental Protection Agency requirements.

Appn. #: 6521

21. Master Planning Updates

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		1,686	1,086	1,200	1,230	1,264	1,290	1,326	6,310		
TOTAL		1,686	1,086	1,200	1,230	1,264	1,290	1,326	6,310		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		667	367	300	100	100	100	100	700		
Sewer Service And Use Charge Capital Improvement Fund		1,019	719	900	1,130	1,164	1,190	1,226	5,610		
TOTAL		1,686	1,086	1,200	1,230	1,264	1,290	1,326	6,310		

Notes:

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

Appn. #: 7242

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program Detail of Non-Construction Projects

22. Payments to West Valley Sanitation District

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Transfer to Other Agencies		10	10	10	10	10	10	10	50		
TOTAL		10	10	10	10	10	10	10	50		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		10	10	10	10	10	10	10	50		
TOTAL		10	10	10	10	10	10	10	50		

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

Appn. #: 4230

23. Permit Review and Inspection for Outside Agencies

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Program Management		50	50	50	25	25	25	25	150		
TOTAL		50	50	50	25	25	25	25	150		
FUNDING SOURCE SCHEDULE (000'S)											
Sewer Service And Use Charge Capital Improvement Fund		50	50	50	25	25	25	25	150		
TOTAL		50	50	50	25	25	25	25	150		

Notes:
 Selected budget information is not provided due to the ongoing nature of this project. This project was previously titled "Permit Review and Inspection for SCVWD".

Appn. #: 5149

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Non-Construction Projects

24. Preliminary Engineering

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding to support preliminary engineering for sanitary sewer-related projects, including surveys and evaluations of project impacts on the sanitary sewer system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Development		950	950	950	950	950	950	950	4,750		
TOTAL		950	950	950	950	950	950	950	4,750		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		100	100	50	50	50	50	50	250		
Sewer Service And Use Charge Capital Improvement Fund		850	850	900	900	900	900	900	4,500		
TOTAL		950	950	950	950	950	950	950	4,750		

Notes:
Selected budget information is not provided due to the ongoing nature of this project.
Appn. #: 4284

25. Program Management

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation funds the administration and management of the Sanitary Sewer Capital Improvement Program.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Program Management		475	475	300	300	300	300	300	1,500		
TOTAL		475	475	300	300	300	300	300	1,500		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		190	190	50	50	50	50	50	250		
Sewer Service And Use Charge Capital Improvement Fund		285	285	250	250	250	250	250	1,250		
TOTAL		475	475	300	300	300	300	300	1,500		

Notes:
Selected budget information is not provided due to the ongoing nature of this project.
Appn. #: 4286

Sanitary Sewer System
2017-2021 Adopted Capital Improvement Program
Detail of Non-Construction Projects

26. Public Works Engineering Services Equipment (Materials Lab)

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This ongoing allocation funds the purchase of equipment necessary to perform quality assurance testing on materials used in sewer rehabilitation projects.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2015-16 Appn.	2015-16 Estimate	2016-17	2017-18	2018-19	2019-20	2020-21	5-Year Total	Beyond 5-Year	Project Total
Equipment		40	40	40	40	40	40	40	200		
TOTAL		40	40	40	40	40	40	40	200		

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund		40	40	40	40	40	40	40	200		
TOTAL		40	40	40	40	40	40	40	200		

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

Appn. #: 4135

2016-2017 CAPITAL BUDGET

2017-2021 CAPITAL IMPROVEMENT PROGRAM

SANITARY SEWER SYSTEM

SUMMARY OF PROJECTS THAT START AFTER 2016-2017

SUMMARY OF PROJECTS WITH CLOSE-OUT COSTS ONLY IN 2016-2017

SUMMARY OF RESERVES

The Summary of Projects that Start after 2016-2017 includes those projects that have funding budgeted starting after 2016-2017. The Summary of Projects with Close-Out Costs Only in 2016-2017 includes those projects that are near completion with only minimal costs (typically inspection services and program management) to finish the project budgeted in 2016-2017. The Summary of Reserves includes all reserves budgeted within the Five-Year Capital Improvement Program. On the Use of Funds statement, the projects in these summaries are not numbered.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Summary of Projects that Start after 2016-2017

Project Name:	Almaden Supplement Sewer Rehabilitation (North)	Initial Start Date:	3rd Qtr. 2010
5-Year CIP Budget:	\$2,730,000	Revised Start Date:	3rd Qtr. 2020
Total Budget:	\$2,960,000	Initial End Date:	2nd Qtr. 2011
Council District:	3, 7	Revised End Date:	2nd Qtr. 2021
USGBC LEED:	N/A		

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.

Project Name:	Fourth Major Interceptor, Phase VIIA	Initial Start Date:	3rd Qtr. 2013
5-Year CIP Budget:	\$5,500,000	Revised Start Date:	3rd Qtr. 2018
Total Budget:	\$5,500,000	Initial End Date:	2nd Qtr. 2015
Council District:	3	Revised End Date:	2nd Qtr. 2020
USGBC LEED:	N/A		

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.

Project Name:	Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements	Initial Start Date:	3rd Qtr. 2012
5-Year CIP Budget:	\$3,467,000	Revised Start Date:	3rd Qtr. 2017
Total Budget:	\$3,621,000	Initial End Date:	2nd Qtr. 2014
Council District:	1	Revised End Date:	2nd Qtr. 2019
USGBC LEED:	N/A		

Description: This project upsizes approximately 5,060 feet of 6-inch, 8-inch, and 10-inch sanitary sewer pipes along Virginia Avenue from Bucknall Road to Rincon Avenue, along Rincon Avenue from Virginia Avenue to Via Napoli, along Middleton Drive from Rincon Avenue to Valerie Drive, along Valerie Drive from Middletown Drive to Twyla Lane, along Twyla Lane from Valerie Drive to Twyla Court, and on Twyla Court.

Project Name:	Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	Initial Start Date:	3rd Qtr. 2014
5-Year CIP Budget:	\$4,075,000	Revised Start Date:	3rd Qtr. 2017
Total Budget:	\$4,075,000	Initial End Date:	2nd Qtr. 2017
Council District:	1	Revised End Date:	2nd Qtr. 2020
USGBC LEED:	N/A		

Description: This project will install 6,360 linear feet of new 21-inch sanitary sewer and 300 linear feet of new 12-inch double barrel siphon along Westmont Avenue from San Tomas Aquino Creek to Harriet Avenue, and along Harriet Avenue from Westmont Avenue to San Tomas Aquino Creek.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Summary of Projects with Close-out Costs Only in 2016-2017

Project Name:	Husted-Richland Sanitary Sewer Improvements	Initial Start Date:	3rd Qtr. 2010
5-Year CIP Budget:	\$40,000	Revised Start Date:	
Total Budget:	\$3,234,000	Initial End Date:	2nd Qtr. 2013
Council District:	6, 9	Revised End Date:	4th Qtr. 2016
USGBC LEED:	N/A		

Description: This project upsizes approximately 2,100 feet of existing 10-inch sewers to 15-inch sewers, and 5,700 feet of existing 10-inch and 12-inch sewers to 18-inch sewers along Husted Avenue from La Mirada to Richland Avenue, and from Richland Avenue to Curtner Avenue.

Project Name:	Kelez Drive and El Prado Drive Sanitary Sewer Replacement	Initial Start Date:	3rd Qtr. 2013
5-Year CIP Budget:	\$50,000	Revised Start Date:	
Total Budget:	\$1,135,000	Initial End Date:	2nd Qtr. 2015
Council District:	10	Revised End Date:	4th Qtr. 2016
USGBC LEED:	N/A		

Description: This project removes and replaces approximately 1,500 linear feet of 6-inch cast iron sewer pipe and approximately 125 linear feet of 6-inch vitrified clay pipe along Kelez Drive and El Prado Drive.

Project Name:	Spreckles Sanitary Sewer Force Main Supplement	Initial Start Date:	3rd Qtr. 2008
5-Year CIP Budget:	\$100,000	Revised Start Date:	
Total Budget:	\$4,916,000	Initial End Date:	2nd Qtr. 2010
Council District:	4	Revised End Date:	4th Qtr. 2016
USGBC LEED:	N/A		

Description: This project installs 4,600 feet of 10-inch sanitary sewer force main high density polyethylene pipe parallel to the existing line, rehabilitates the existing pump station, and builds additional manhole access for maintenance purposes on Spreckles Avenue between Dearborn Street and Los Esteros Road.

Sanitary Sewer System

2017-2021 Adopted Capital Improvement Program

Summary of Reserves

Project Name:	Montague Sanitary Sewer Pump Station Reserve	Initial Start Date:	N/A
5-Year CIP Budget:	\$2,400,000	Revised Start Date:	
Total Budget:	\$2,400,000	Initial End Date:	N/A
Council District:	4	Revised End Date:	
USGBC LEED:	N/A		

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.

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