

2015-2016 CAPITAL BUDGET

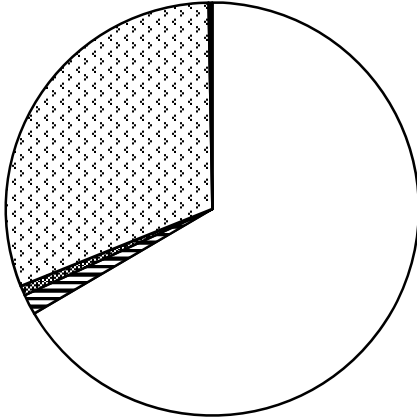
2016-2020 CAPITAL IMPROVEMENT PROGRAM

SANITARY
SEWER SYSTEM

SANITARY SEWER SYSTEM

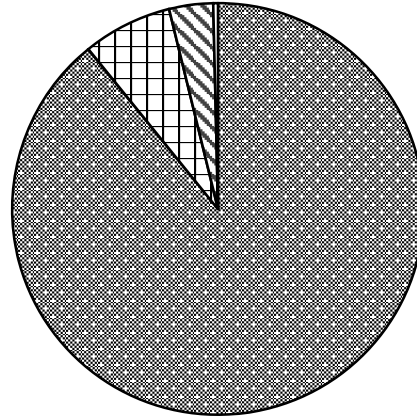
2016-2020 Capital Improvement Program

**2015-2016 Adopted
Source of Funds**



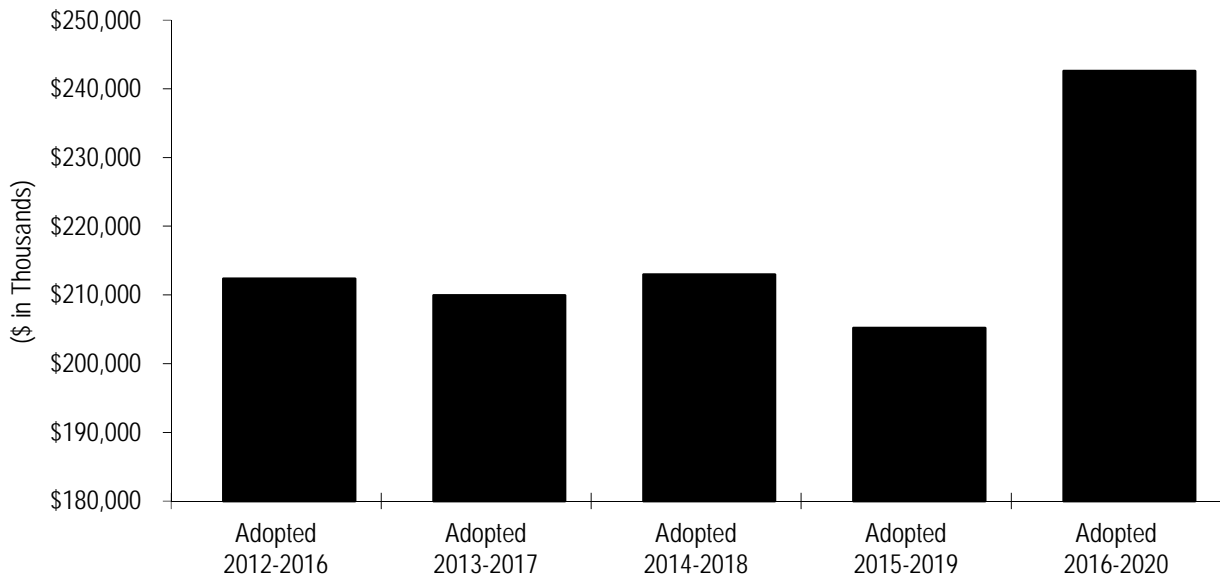
- Beginning Fund Balance
- ▨ Other Government Agencies
- ▩ Taxes, Fees and Charges
- Loans & Transfers
- Interest

**2015-2016 Adopted
Use of Funds**



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

CIP History



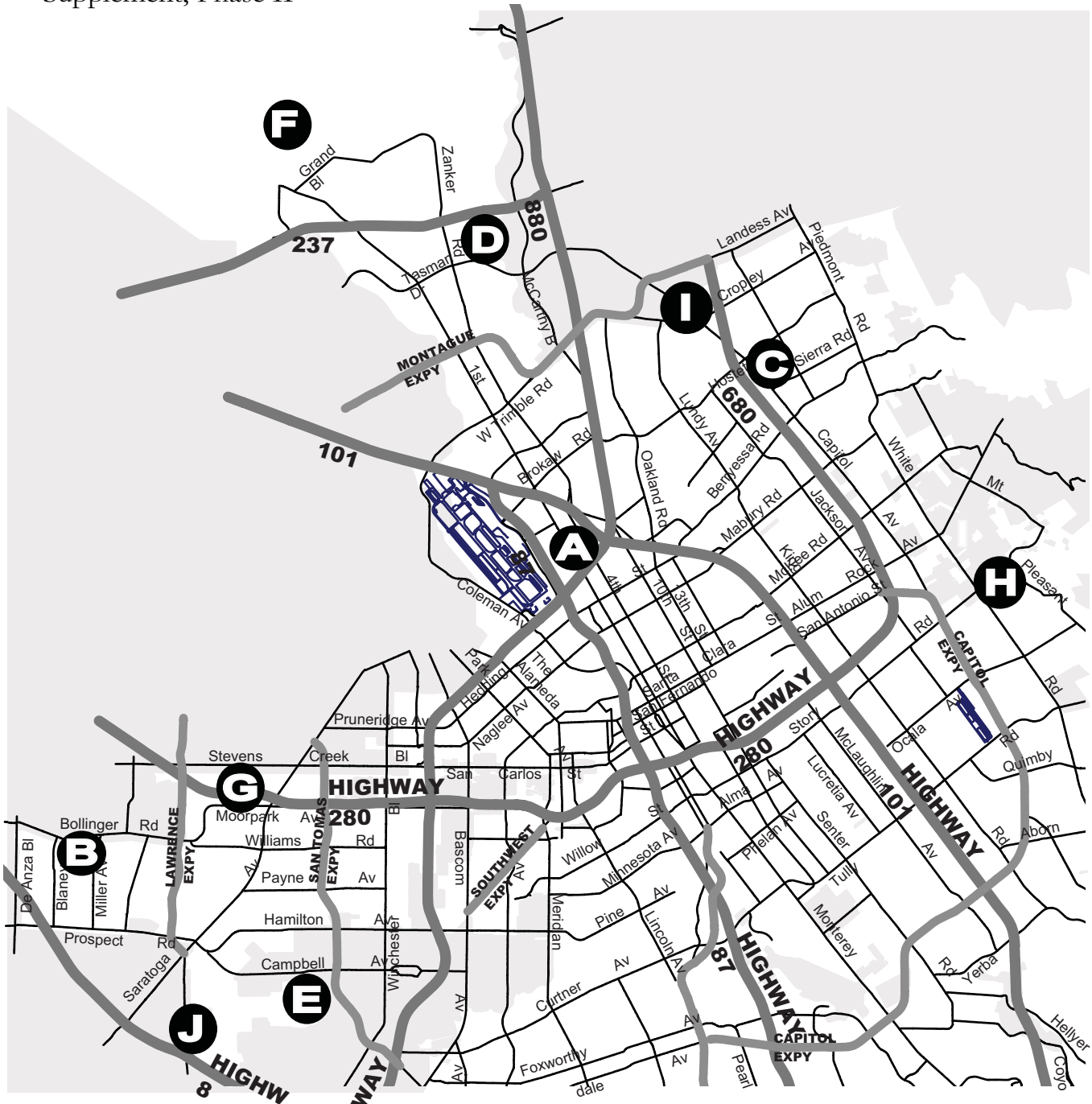
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Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

North

- A)** 60" Brick Interceptor, VIA and VIB
- B)** Bollinger Rd. - Blaney Ave. Sanitary Sewer Improvements
- C)** Capitol Ave. Sanitary Sewer Improvements
- D)** Fourth Major Interceptor, Phase IIB/IIIB
- E)** Rincon Ave. - Virginia Ave. Sanitary Sewer Improvements
- F)** Spreckles Sanitary Sewer Force Main Supplement, Phase II
- G)** Stevens Creek Blvd. Sanitary Sewer Improvements
- H)** Story Rd. Sanitary Sewer Improvements
- I)** Trimble Rd. and Capewood Ln. Sanitary Sewer Improvements
- J)** Westmont Ave. and Harriet Ave. Sanitary Sewer Improvement



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Sanitary Sewer System

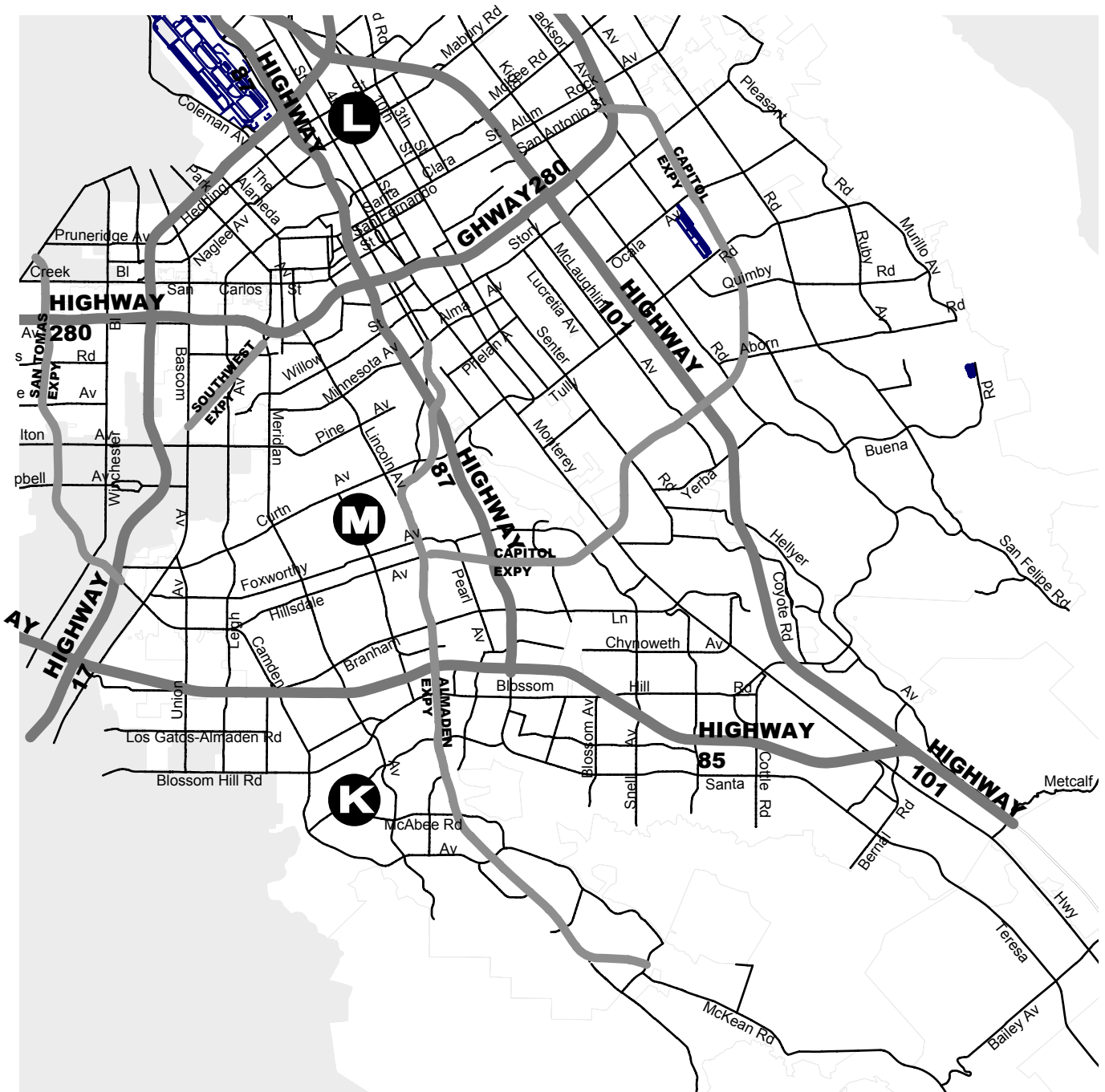
2016-2020 Adopted Capital Improvement Program

South

K) Coleman Rd. Sanitary Sewer Improvements

L) Fourth Major Interceptor, Phase VII A

M) Husted Ave. Sanitary Sewer Improvement Phase III



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Sanitary Sewer System

2016-2020 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 2016-2020 Adopted Capital Improvement Program (CIP) provides funding of \$242.6 million, of which \$103.9 million is allocated in 2015-2016. This program is part of the Environmental and Utility Services (E&US) City Service Area (CSA) and supports the following outcome: *Reliable Utility Infrastructure*.

PROGRAM PRIORITIES AND OBJECTIVES

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. The Master Plan continues to develop detailed all-pipe system models and evaluate capacity needs in specific planning areas including General Plan growth areas. For example, the detailed master planning study has been completed for the North San José Area.

The primary outcome of the Sanitary Sewer System CIP is to ensure adequate capacity within the system and to reduce sanitary sewer overflows (SSOs). The Adopted CIP and Operating Budget, as implemented by the Public Works Department and Transportation Department, have been designed to address this need. This capital program supports the goal of preventing SSOs by providing sufficient system capacity and maintaining system structure integrity. Consequently, the majority of funds in the Sanitary Sewer System CIP are used to manage system capacity, assess the system's condition, and construct sewer improvement projects.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

PROGRAM PRIORITIES AND OBJECTIVES

Construction projects in the Adopted CIP fall into one of two categories: (a) improve sewer capacity in substantially built-out areas and less-developed areas to accommodate economic development, or (b) rehabilitate existing sewers with a higher priority given to those with extensive, severe deterioration.

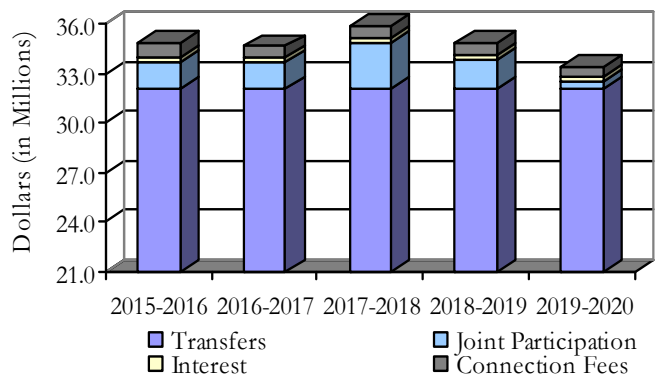
A project that will enhance capacity is considered a “Capacity Improvement” project. A project that will restore the structural integrity of the existing sewer is considered a “Rehabilitation” project. Expenditures for capacity improvement projects total \$97.0 million over the next five years, or roughly 48.2% of construction projects in this CIP. Expenditures for rehabilitation projects total \$104.2 million, or roughly 51.8% of construction projects in this CIP.

As identified in the Status Report on Deferred Maintenance and Infrastructure Backlog accepted by City Council on June 2, 2015, the Sanitary Sewer Collection System has estimated unfunded needs of approximately \$5.7 million per year. This figure incorporates an additional \$7.0 million per year transfer from the Sewer Service and Use Charge Fund for infrastructure rehabilitation, beginning in 2015-2016, which has been included in the Adopted CIP to help address backlog needs. With a remaining \$5.7 million 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 need in the future.

SOURCES OF FUNDING

The primary funding sources for the 2016-2020 Adopted Sanitary Sewer System CIP are 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



An annual transfer of \$32.0 million, totaling \$160.0 million for five years, from the SSUC Fund is programmed in the 2016-2020 Adopted CIP. The Adopted CIP assumes the 5.5% rate increase for the Sewer Service and Use Charge Fund for 2015-2016, as approved by the City Council on June 23, 2015; included in this is an approximate 2.0% rate increase necessary to fund the additional \$7.0 million annual transfer from the SSUC Fund. Estimated rate increases ranging from 5.0% up to 7.0% beyond 2015-2016 may be revised based on future assessments of capital and operating needs, changes in project costs, or other unforeseen circumstances.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

SOURCES OF FUNDING

The Sanitary Sewer Connection Fee is charged to developers for connecting to the City’s sewer system. The fees collected may only be used for the construction and reconstruction (including land acquisition) of the San José sanitary sewer system. The fee is based on the number of single- and multi-family residential units built and the acres developed on commercial and industrial properties. When compared to revenue projections in the 2015-2019 Adopted CIP, the projection is slightly decreased from the peak activity experienced in the last two years, though still strong when compared to recent history. A corresponding 9.3% decrease to Sanitary Sewer Connection Fee revenues, from \$3.8 million in the 2015-2019 Adopted CIP to \$3.4 million in the 2016-2020 Adopted CIP, is expected.

Reimbursements from WVSD/City Joint Projects are identified in the respective cost-sharing agreements with each agency. These contributions, which are reimbursements for actual projects, total \$7.7 million in the 2016-2020 Adopted CIP. The reimbursements from WVSD/City Joint Projects total \$1.5 million in 2015-2016 and 2016-2017 and increase to \$2.7 million in 2017-2018 to reflect the anticipated construction cost and an increase in project cost based on the latest estimates prepared for the 60” Brick Interceptor, Phase VIA and VIB project. These reimbursements drop to \$1.7 million in 2018-2019 and \$320,000 in 2019-2020.

“Joint Participation” contributions are paid to the City by the County Sanitation Districts (Cupertino, 2-3) for their share of the eligible project expenditures within the five-year CIP and the percentage of reserved capacity of the joint sewer. These contributions, which are reimbursements for actual projects, total \$800,000 in the 2016-2020 Adopted CIP.

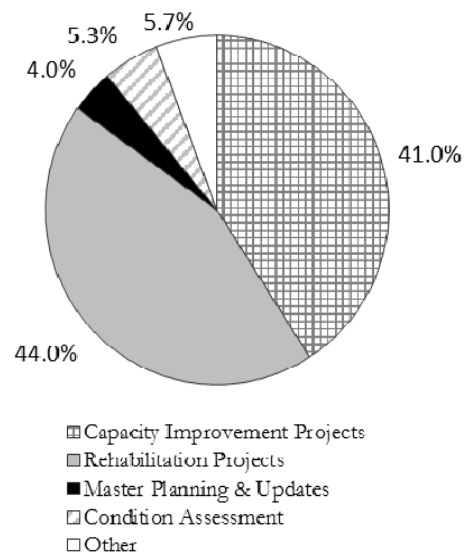
PROGRAM HIGHLIGHTS

The discussion below and the accompanying graph summarize the different types of projects included in this Adopted CIP. The majority of funding is directed toward different types of capacity improvement and rehabilitation projects.

Capacity Improvement and Rehabilitation – North San José Interceptors

Funding totaling \$38.8 million is programmed in this Adopted CIP for the North San José Interceptor System: \$36.3 million for capacity improvement and \$2.5 million for rehabilitation (Fourth Major Interceptor, Phase IIB/IIIB). The North San José Interceptor System is a collection of very large sanitary sewer pipes with

2016-2020 Sanitary Sewer System Expenditures \$242.6 million



Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Capacity Improvement and Rehabilitation – North San José Interceptors (Cont'd.)

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 2016-2020 Adopted CIP and will be referred to in the preparation of subsequent CIP programs. 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.

The projects related to these interceptors are summarized in the following table:

North San José Interceptor System Project Name	Description & Location	2016-2020 CIP Cost	Estimated Completion
60" Brick Interceptor, Phase VIA and VIB	Replace 5,000 feet of existing 54-inch reinforced concrete sanitary sewer with an 84-inch lined reinforced concrete pipe (RCP) between 5 th and Commercial Streets to Zanker Road and Old Bayshore Highway.	\$30.8 million	2 nd Quarter 2018
Fourth Major Interceptor, Phase VIIA	Install 7,200 linear feet of new 66-inch RCP along 5 th Street between Commercial and Empire Streets.	\$5.5 million	2 nd Quarter 2020
Fourth Major Interceptor, Phase IIB/IIIB	Rehabilitate 3,000 linear feet of 84-inch diameter RCP along Zanker Road between Holger Way and Structure A at Estancia Drive.	\$2.5 million	2 nd Quarter 2016

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

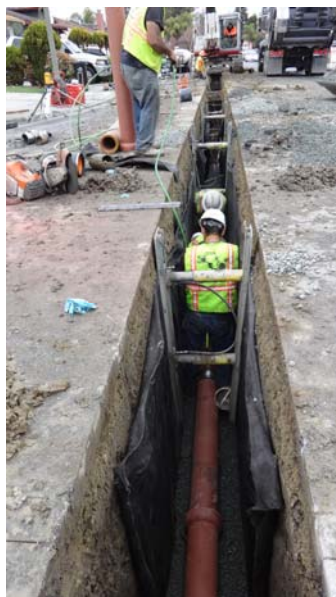
Overview

PROGRAM HIGHLIGHTS

Capacity Improvement – Other Projects

Funding totaling \$60.7 million is programmed in this Adopted CIP for various other capacity improvement projects. Capacity improvement projects are selected using a computerized sewer flow model (which utilizes 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 shown below.

Project Name	Description & Location	2016-2020 CIP Cost	Estimated Completion
Immediate Replacement and Diversion Projects	Funding for immediate needs that arise from Department of Transportation maintenance and response activities.	\$18.7 million	Ongoing
Stevens Creek Boulevard Sanitary Sewer Improvements	Upsize 7,500 feet of sanitary sewer pipes on Stevens Creek Boulevard west of Saratoga Ave.	\$2.9 million	2 nd Quarter 2016
Trimble Road and Capewood Lane Sanitary Sewer Improvements	Upsize 7,600 feet of vitrified clay pipe (VCP) and install 600 feet of new pipe on Trimble Rd. between I-680 and N. Capitol Ave.	\$5.1 million	2 nd Quarter 2017



Vitrified Clay Pipe (VCP) Installation

Rehabilitation – Other Projects

Funding totaling \$101.7 million is programmed for sewer rehabilitation and/or replacement, mostly targeted toward older neighborhoods facing structural deterioration or changes in sewage flow patterns. Rehabilitation projects are selected based on condition assessment studies, video inspections, maintenance records and reports, and actual pipe failures, whether due to pipe corrosion or other physical deficiencies. Projects in this category include Condition Assessment Sewer Repairs, which provides funding of \$27.5 million over the next five years to repair and replace the most critically damaged pipes identified by the condition assessment studies. Also funded is the continuation of the Cast Iron Pipe – Remove and Replace program (\$22.5 million) to update part of the 17 miles of the city-wide cast iron pipe network that is more than 40 years old. Structural damage, such as corrosion in these pipes, has caused SSOs and resulted in increased maintenance activities. A budget of \$35.0 million is allocated to fund Urgent Rehabilitation and Repair Projects to address maintenance and SSO-related issues.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Other Project Highlights

In addition to the projects above, other significant projects in this Adopted CIP include the Master Planning Program, Inflow and Infiltration (I&I) Reduction, Sanitary Sewer System Flow Monitoring, and Infrastructure – Sanitary Sewer Condition Assessment.

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. Within this five-year CIP, the Master Planning Program will continue to develop detailed models of the growth areas included in the General Plan.

The I&I Reduction Program is intended to study and rehabilitate portions of the sewer system where groundwater and other sources of water (such as rainfall runoff) enter the sewers. The goal of the I&I Reduction Program is to decrease the flow to the RWF and to help continue to meet the discharge flow cap.

The Flow Monitoring Program continues to maintain a long-term rainfall and flow monitoring system of major drainage basins. Long-term flow monitoring will provide the City with information on how flows may change over time due to water conservation, system rehabilitations, development, or other factors, and will contribute to the understanding of how the City's large trunk sewers perform under various wet weather events. Temporary flow monitoring is also necessary to provide verification of the need for specific capital improvement projects, as well as supplement the long-term meters by providing additional flow information at key flow splits or other critical locations. The Flow Monitoring Program will provide useful flow data for the hydraulic model refinement for ongoing master planning efforts. The program also provides helpful information for sewer operations and maintenance activities, and sewage diversion operations.



Sewer Rehabilitation by Bore and Jack Operation

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program
Overview

PROGRAM HIGHLIGHTS

Other Project Highlights (Cont'd.)

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. As a result, rehabilitation budgets and preventive maintenance and improvement programs can be planned and prioritized.

MAJOR CHANGES FROM THE 2015-2019 ADOPTED CIP

Major changes from the 2015-2019 Adopted CIP include the following:

- Increased funding of \$17.5 million for the Condition Assessment Sewer Repairs project;
- Increased funding of \$16.0 million for the Urgent Rehabilitation and Repair Projects;
- Increased annual transfer from the Sewer Service and Use Charge Fund by \$7.0 million to address infrastructure backlog needs;
- Increased funding of \$7.0 million for the Cast Iron Pipe – Remove and Replace project;
- Increased funding of \$3.1 million for the Bollinger Road – Moorpark Avenue – Williams Road Sanitary Sewer Improvements project;
- Increased funding of \$2.9 million for the Monterey-Riverside Relief Sanitary Sewer Improvements project; and
- Increased funding of \$2.2 million for the 60” Brick Interceptor, Phase VIA and VIB project.

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.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

COUNCIL-APPROVED REVISIONS TO THE PROPOSED CAPITAL IMPROVEMENT PROGRAM

The City Council approved the rebudgeting of \$18.4 million for 15 projects: Monterey-Riverside Relief Sanitary Sewer Improvements (\$4.3 million), 30" Old Bayshore Supplement (\$3.7 million), Rehabilitation of Sanitary Sewer Pump Stations (\$2.4 million), Fourth Major Interceptor, Phase IIB/IIIB (\$2.2 million), Immediate Replacement and Diversion Projects (\$1.7 million), Public Art (\$1.5 million), 11th Street Sanitary Sewer Replacement (\$1.2 million), The Villages Sanitary Sewer Replacement (\$315,000), Almaden Expressway Sanitary Sewer Improvements (\$300,000), Story Road Easement Sanitary Sewer Replacement (\$300,000), Alum Rock Avenue Sanitary Sewer Replacement (\$150,000), Stevens Creek Boulevard Sanitary Sewer Improvements (\$75,000), Story Road Sanitary Sewer Improvements (\$75,000), Husted-Richland Sanitary Sewer Improvements (\$50,000), and Minnesota Avenue Sanitary Sewer Improvements (\$50,000).

In addition, City Council approved additional funding for the Monterey-Riverside Relief Sanitary Sewer Improvements project (\$2.9 million), partially offset by the redistribution of 2014-2015 funds from Immediate Replacement and Diversion Projects (\$700,000), Inflow and Infiltration Reduction (\$500,000), Preliminary Engineering (\$300,000), North San Jose Sanitary Sewer Improvements (\$200,000), and Urgent Rehabilitation and Repair Projects (\$100,000).

2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM

SANITARY SEWER SYSTEM

SOURCE OF FUNDS

USE OF FUNDS

SOURCE AND USE OF FUNDS STATEMENTS

2015-2016 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 2015-2016 Use of Funds by Funding Source displays the funding sources for the capital expenditures that are budgeted in 2015-2016.

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>Sanitary Sewer Connection Fee Fund (540)</u>							
Beginning Fund Balance	12,062,697	10,565,676	272,676	509,676	754,676	839,676	10,565,676 *
Revenue from Other Agencies:							
<u>Sanitary Sewer Joint Participation</u>							
– CSD 2-3/City Joint Projects		160,000	160,000	160,000	160,000	160,000	800,000
Taxes, Fees and Charges:							
<u>Sanitary Sewer Connection Fees</u>	950,000	800,000	650,000	650,000	650,000	650,000	3,400,000
Interest Income	51,000	46,000	46,000	46,000	46,000	46,000	230,000
Reserve for Encumbrances	1,346,979						
Total Sanitary Sewer Connection Fee Fund	14,410,676	11,571,676	1,128,676	1,365,676	1,610,676	1,695,676	14,995,676 *
<u>Sewer Service and Use Charge Capital Improvement Fund (545)</u>							
Beginning Fund Balance	68,806,555	58,593,592	3,316,592	874,592	3,417,592	3,013,592	58,593,592 *
Revenue from Other Agencies:							
<u>Other Agencies</u>							
– Reimbursements - WVSD/City Joint Projects	815,000	1,500,000	1,500,000	2,668,000	1,689,000	320,000	7,677,000
Contributions, Loans and Transfers from:							
<u>Special Funds</u>							
– Transfer from Sewer Service and Use Charge Fund	23,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Interest Income	250,000	260,000	260,000	260,000	260,000	260,000	1,300,000
Reserve for Encumbrances	25,346,037						
Total Sewer Service and Use Charge Capital Improvement Fund	118,217,592	92,353,592	37,076,592	35,802,592	37,366,592	35,593,592	227,570,592 *

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>Sewer Service and Use Charge Capital Improvement Fund (545)</u>							
TOTAL SOURCE OF FUNDS	132,628,268	103,925,268	38,205,268	37,168,268	38,977,268	37,289,268	242,566,268 *

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

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

USE OF FUNDS	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Construction Projects							
Public Art	157,000	1,617,000	116,000	47,000	70,000	84,000	1,934,000
Capacity Improvement Projects							
Coleman Road Sanitary Sewer Improvements - Phase 3	3,125,000						
Fourth Major Interceptor, Phase VIIA					500,000	5,000,000	5,500,000
North San José Sanitary Sewer Improvements	11,000						
Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements				3,246,000	485,000		3,731,000
South White Road Sanitary Sewer Improvements	495,000						
Trimble Road Sanitary Sewer Improvements	2,200,000						
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvement					3,378,000	418,000	3,796,000
1. 30" Old Bayshore Supplement	191,000	4,340,000					4,340,000
2. 60" Brick Interceptor, Phase VIA and VIB	1,075,000	29,107,000	964,000	721,000			30,792,000
3. Almaden Expressway Sanitary Sewer Improvements	4,335,000	406,000					406,000
4. Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	249,000	3,780,000	30,000				3,810,000
5. Capitol Avenue Sanitary Sewer Improvements	292,000	2,450,000					2,450,000
6. Coleman Road Sanitary Sewer Improvements	110,000	1,433,000					1,433,000

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

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USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Construction Projects							
Capacity Improvement Projects							
7. Husted Avenue Sanitary Sewer Improvement - Phase II	350,000	3,326,000					3,326,000
8. Husted-Richland Sanitary Sewer Improvements	2,976,000	50,000					50,000
9. Immediate Replacement and Diversion Projects	4,999,000	5,716,000	3,000,000	4,000,000	3,000,000	3,000,000	18,716,000
10. Monterey-Riverside Relief Sanitary Sewer Improvements	198,000	7,472,000					7,472,000
11. Stevens Creek Boulevard Sanitary Sewer Improvements	101,000	2,948,000					2,948,000
12. Story Road Sanitary Sewer Improvements		220,000	2,938,000				3,158,000
13. Trimble Road and Capewood Lane Sanitary Sewer Improvements	207,000	400,000	4,663,000				5,063,000
Total Capacity Improvement Projects	20,914,000	61,648,000	11,595,000	7,967,000	7,363,000	8,418,000	96,991,000
Rehabilitation Projects							
Almaden Supplement Sewer Rehabilitation (North)	20,000				2,730,000		2,730,000
Naglee Avenue Sanitary Sewer Replacement	41,000						
Spreckles Sanitary Sewer Force Main Supplement	1,609,000						
14. 11th Street Sanitary Sewer Replacement	356,000	1,498,000					1,498,000
15. Alum Rock Avenue Sanitary Sewer Replacement	993,000	180,000					180,000

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

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USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Construction Projects							
Rehabilitation Projects							
16. Cast Iron Pipe - Remove and Replace	3,407,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	22,500,000
17. Cast Iron Pipe Replacement - West	1,653,000	231,000					231,000
18. Condition Assessment Sewer Repairs	3,315,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	27,500,000
19. Fourth Major Interceptor, Phase IIB/IIIB	104,000	2,517,000					2,517,000
20. Inflow and Infiltration Reduction	6,000	500,000	500,000	500,000	500,000	500,000	2,500,000
21. Kelez Drive and El Prado Drive Sanitary Sewer Replacement	1,066,000	147,000					147,000
22. Mackey Avenue Sanitary Sewer Replacement	1,159,000	111,000					111,000
23. Minnesota Avenue Sanitary Sewer Improvements	1,496,000	50,000					50,000
24. Rehabilitation of Sanitary Sewer Pump Stations	3,820,000	3,218,000	67,000				3,285,000
25. Reinforced Concrete Pipe Rehabilitation Program	607,000	500,000	500,000	500,000	500,000	500,000	2,500,000
26. Spreckles Sanitary Sewer Force Main Supplement, Phase II	500,000	2,803,000					2,803,000
27. Story Road Easement Sanitary Sewer Replacement	1,133,000	300,000					300,000
28. The Villages Sanitary Sewer Replacement	765,000	315,000					315,000
29. Urgent Rehabilitation and Repair Projects	7,291,000	7,000,000	7,000,000	7,000,000	7,000,000	7,000,000	35,000,000
Total Rehabilitation Projects	29,341,000	29,370,000	18,067,000	18,000,000	20,730,000	18,000,000	104,167,000

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Construction Projects							
Total Construction Projects	50,412,000	92,635,000	29,778,000	26,014,000	28,163,000	26,502,000	203,092,000
Non-Construction							
General Non-Construction							
Capital Program and Public Works Department Support Service Costs	1,703,000	1,214,000	607,000	532,000	579,000	586,000	3,518,000
Infrastructure Management System	47,000	37,000	38,000	39,000	40,000	41,000	195,000
Sanitary Sewer Condition Assessments - Phase II	517,000						
30. Fee Administration	81,000	81,000	84,000	84,000	84,000	85,000	418,000
31. Flow Monitoring Program (Master Planning)	3,273,000	750,000	750,000	750,000	750,000	750,000	3,750,000
32. Infrastructure - Sanitary Sewer Condition Assessment	4,634,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	12,500,000
33. Master Planning Updates	1,142,000	1,200,000	1,200,000	1,200,000	1,100,000	1,100,000	5,800,000
34. Payments to West Valley Sanitation District	10,000	10,000	10,000	10,000	10,000	10,000	50,000
35. Permit Review and Inspection for Outside Agencies	75,000	50,000	25,000	25,000	25,000	25,000	150,000
36. Preliminary Engineering	725,000	950,000	950,000	950,000	950,000	950,000	4,750,000
37. Program Management	475,000	475,000	475,000	475,000	475,000	475,000	2,375,000
38. 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	12,722,000	7,307,000	6,679,000	6,605,000	6,553,000	6,562,000	33,706,000

Sanitary Sewer System
 2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Non-Construction							
Contributions, Loans and Transfers to General Fund							
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	7,000	44,000					44,000
Total Contributions, Loans and Transfers to General Fund	7,000	44,000					44,000
Contributions, Loans and Transfers to Special Funds							
Transfer to the City Hall Debt Service Fund	328,000	350,000	364,000	377,000	408,000	408,000	1,907,000
Total Contributions, Loans and Transfers to Special Funds	328,000	350,000	364,000	377,000	408,000	408,000	1,907,000
Total Non-Construction	13,057,000	7,701,000	7,043,000	6,982,000	6,961,000	6,970,000	35,657,000
Ending Fund Balance	69,159,268	3,589,268	1,384,268	4,172,268	3,853,268	3,817,268	3,817,268*
TOTAL USE OF FUNDS	132,628,268	103,925,268	38,205,268	37,168,268	38,977,268	37,289,268	242,566,268*

* The 2015-2016 through 2018-2019 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Sanitary Sewer Connection Fee Fund (540)

Statement of Source and Use of Funds

	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	12,062,697	10,565,676	272,676	509,676	754,676	839,676	10,565,676
Interest Income	51,000	46,000	46,000	46,000	46,000	46,000	230,000
Reserve for Encumbrances	1,346,979						
Revenue from Other Agencies		160,000	160,000	160,000	160,000	160,000	800,000
Taxes, Fees and Charges	950,000	800,000	650,000	650,000	650,000	650,000	3,400,000
TOTAL SOURCE OF FUNDS	14,410,676	11,571,676	1,128,676	1,365,676	1,610,676	1,695,676	14,995,676
<u>USE OF FUNDS</u>							
Construction Projects	1,159,000	9,728,000	278,000		117,000	102,000	10,225,000
Contributions, Loans and Transfers	51,000	28,000	26,000	27,000	29,000	29,000	139,000
Non-Construction	2,635,000	1,543,000	315,000	584,000	625,000	627,000	3,694,000
Reserves							
Ending Fund Balance **	10,565,676	272,676	509,676	754,676	839,676	937,676	937,676
TOTAL USE OF FUNDS	14,410,676	11,571,676	1,128,676	1,365,676	1,610,676	1,695,676	14,995,676

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

** The 2015-2016 through 2018-2019 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Sewer Service and Use Charge Capital Improvement Fund (545)

Statement of Source and Use of Funds

	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	68,806,555	58,593,592	3,316,592	874,592	3,417,592	3,013,592	58,593,592
Contributions, Loans and Transfers	23,000,000	32,000,000	32,000,000	32,000,000	32,000,000	32,000,000	160,000,000
Interest Income	250,000	260,000	260,000	260,000	260,000	260,000	1,300,000
Reserve for Encumbrances	25,346,037						
Revenue from Other Agencies	815,000	1,500,000	1,500,000	2,668,000	1,689,000	320,000	7,677,000
TOTAL SOURCE OF FUNDS	118,217,592	92,353,592	37,076,592	35,802,592	37,366,592	35,593,592	227,570,592
<u>USE OF FUNDS</u>							
Construction Projects	49,253,000	82,907,000	29,500,000	26,014,000	28,046,000	26,400,000	192,867,000
Contributions, Loans and Transfers	284,000	366,000	338,000	350,000	379,000	379,000	1,812,000
Non-Construction	10,087,000	5,764,000	6,364,000	6,021,000	5,928,000	5,935,000	30,012,000
Reserves							
Ending Fund Balance **	58,593,592	3,316,592	874,592	3,417,592	3,013,592	2,879,592	2,879,592
TOTAL USE OF FUNDS	118,217,592	92,353,592	37,076,592	35,802,592	37,366,592	35,593,592	227,570,592

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

** The 2015-2016 through 2018-2019 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 Use of Funds by Funding Source

	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
TOTAL RESOURCES	11,571,676	92,353,592	103,925,268

Construction Projects

Public Art		1,617,000	1,617,000
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Capacity Improvement Projects

1.	30" Old Bayshore Supplement	1,551,000	2,789,000	4,340,000
2.	60" Brick Interceptor, Phase VIA and VIB		29,107,000	29,107,000
3.	Almaden Expressway Sanitary Sewer Improvements	328,000	78,000	406,000
4.	Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	577,000	3,203,000	3,780,000
5.	Capitol Avenue Sanitary Sewer Improvements	870,000	1,580,000	2,450,000
6.	Coleman Road Sanitary Sewer Improvements	20,000	1,413,000	1,433,000
7.	Husted Avenue Sanitary Sewer Improvement - Phase II	378,000	2,948,000	3,326,000
8.	Husted-Richland Sanitary Sewer Improvements		50,000	50,000
9.	Immediate Replacement and Diversion Projects	2,216,000	3,500,000	5,716,000
10.	Monterey-Riverside Relief Sanitary Sewer Improvements	2,500,000	4,972,000	7,472,000

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 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			
11. Stevens Creek Boulevard Sanitary Sewer Improvements	1,288,000	1,660,000	2,948,000
12. Story Road Sanitary Sewer Improvements		220,000	220,000
13. Trimble Road and Capewood Lane Sanitary Sewer Improvements		400,000	400,000
Total Capacity Improvement Projects	9,728,000	51,920,000	61,648,000
Rehabilitation Projects			
14. 11th Street Sanitary Sewer Replacement		1,498,000	1,498,000
15. Alum Rock Avenue Sanitary Sewer Replacement		180,000	180,000
16. Cast Iron Pipe - Remove and Replace		4,500,000	4,500,000
17. Cast Iron Pipe Replacement - West		231,000	231,000
18. Condition Assessment Sewer Repairs		5,500,000	5,500,000
19. Fourth Major Interceptor, Phase IIB/IIIB		2,517,000	2,517,000
20. Inflow and Infiltration Reduction		500,000	500,000
21. Kelez Drive and El Prado Drive Sanitary Sewer Replacement		147,000	147,000
22. Mackey Avenue Sanitary Sewer Replacement		111,000	111,000
23. Minnesota Avenue Sanitary Sewer Improvements		50,000	50,000

Sanitary Sewer System
 2016-2020 Adopted Capital Improvement Program
 2015-2016 Use of Funds by Funding Source

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	(540) Sanitary Sewer Connection Fee Fund	(545) Sewer Service and Use Charge Capital Improvement Fund	Total
<u>Construction Projects</u>			
Rehabilitation Projects			
24. Rehabilitation of Sanitary Sewer Pump Stations		3,218,000	3,218,000
25. Reinforced Concrete Pipe Rehabilitation Program		500,000	500,000
26. Spreckles Sanitary Sewer Force Main Supplement, Phase II		2,803,000	2,803,000
27. Story Road Easement Sanitary Sewer Replacement		300,000	300,000
28. The Villages Sanitary Sewer Replacement		315,000	315,000
29. Urgent Rehabilitation and Repair Projects		7,000,000	7,000,000
Total Rehabilitation Projects		29,370,000	29,370,000
<u>Total Construction Projects</u>	9,728,000	82,907,000	92,635,000
<u>Non-Construction</u>			
General Non-Construction			
Capital Program and Public Works Department Support Service Costs	162,000	1,052,000	1,214,000
Infrastructure Management System		37,000	37,000
30. Fee Administration	81,000		81,000

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 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>			
General Non-Construction			
31. Flow Monitoring Program (Master Planning)	400,000	350,000	750,000
32. Infrastructure - Sanitary Sewer Condition Assessment		2,500,000	2,500,000
33. Master Planning Updates	600,000	600,000	1,200,000
34. Payments to West Valley Sanitation District	10,000		10,000
35. Permit Review and Inspection for Outside Agencies		50,000	50,000
36. Preliminary Engineering	100,000	850,000	950,000
37. Program Management	190,000	285,000	475,000
38. Public Works Engineering Services Equipment (Materials Lab)		40,000	40,000
Total General Non-Construction	1,543,000	5,764,000	7,307,000
Contributions, Loans and Transfers to General Fund			
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	3,000	41,000	44,000
Total Contributions, Loans and Transfers to General Fund	3,000	41,000	44,000

Sanitary Sewer System
 2016-2020 Adopted Capital Improvement Program
 2015-2016 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 Special Funds			
Transfer to the City Hall Debt Service Fund	25,000	325,000	350,000
Total Contributions, Loans and Transfers to Special Funds	25,000	325,000	350,000
<u>Total Non-Construction</u>	1,571,000	6,130,000	7,701,000
Ending Fund Balance	272,676	3,316,592	3,589,268
TOTAL USE OF FUNDS	11,571,676	92,353,592	103,925,268

2015-2016 CAPITAL BUDGET

2016-2020 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 2015-2016. The Detail of Non-Construction Projects section is abbreviated and provides information on the individual non-construction project, with funding in 2015-2016. On the Use of Funds statement, these projects are numbered.

Sanitary Sewer System

2016-2020 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. 2016
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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	134										134
Design	167	128	128								295
Bid & Award		48	48								48
Construction		3,725	15	4,306				4,306			4,321
Post Construction		34		34				34			34
TOTAL	301	3,935	191	4,340				4,340			4,832

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund	130	1,344		1,551				1,551			1,681
Sewer Service And Use Charge Capital Improvement Fund	171	2,591	191	2,789				2,789			3,151
TOTAL	301	3,935	191	4,340				4,340			4,832

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 refining of project scope and cost estimate.
2016-2020 CIP - Increase of \$596,000 due to refining of 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

2016-2020 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. 2018
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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	63										63
Design	4,001										4,001
Bid & Award	10	48	48								58
Construction	32,921	28,470	1,027	29,107	964	711			30,782		64,730
Post Construction	9					10			10		19
TOTAL	37,004	28,518	1,075	29,107	964	721			30,792		68,871

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer	186										186
Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund	36,818	28,518	1,075	29,107	964	721			30,792		68,685
TOTAL	37,004	28,518	1,075	29,107	964	721			30,792		68,871

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.

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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

3. Almaden Expressway Sanitary Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2010
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2012
Council District: 10 **Revised Completion Date:** 2nd Qtr. 2016
Location: Almaden Expressway between Camden Avenue and Burnside Drive

Description: This project funds the upsizing of approximately 7,080 feet of 6-inch, 8-inch, and 10-inch sewer lines on Almaden Expressway.

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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	164										164
Design	204										204
Construction	33	4,629	4,335	400				400	400		4,768
Post Construction		6		6				6	6		6
TOTAL	401	4,635	4,335	406				406	406		5,142

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		388	88	328				328			416
Sewer Service And Use Charge Capital Improvement Fund	401	4,247	4,247	78				78			4,726
TOTAL	401	4,635	4,335	406				406			5,142

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2013-2017 CIP - Increase of \$825,000 due to scope change.

2014-2018 CIP - Increase of \$304,000 due to additional work required by the County of Santa Clara and work associated with environmental mitigation.

2015-2019 CIP - Increase of \$286,000 due to project scope change that includes a new requirement from Santa Clara County to microsurface the expressway.

2016-2020 CIP - Increase of \$107,000 to reflect an increase in construction costs of the project.

Notes:

CEQA Project: ALM1A-D - Almaden Expressway Sanitary Sewer Improvements

FY Initiated: 2010-2011 **Appn. #:** 7248
Initial Project Budget: \$3,620,000 **USGBC LEED:** N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

4. 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. 2017
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 2 phases. The first phase (Moorpark Avenue from Lawrence Expressway to Williams Road and Williams Road to Saratoga Avenue) will begin construction in 2015-2016. The second phase is scheduled in the out years. The schedule and budget shown are for the first phase of the project.

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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	26										26
Design	255	957	249	20					20		524
Bid & Award				30					30		30
Construction				3,709					3,709		3,709
Post Construction				21	30				51		51
TOTAL	281	957	249	3,780	30				3,810		4,340

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		10		577	30				607		607
Sewer Service And Use Charge Capital Improvement Fund	281	947	249	3,203					3,203		3,733
TOTAL	281	957	249	3,780	30				3,810		4,340

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. There is a moratorium on trench work after the street is paved in 2014-2015. There is no immediate need to construct this project for the next five years.

2016-2020 CIP - Increase of \$3.1 million due to project schedule change, construction is anticipated to begin in 2015-2016.

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".

FY Initiated:	2012-2013	Appn. #:	7478 , 7606
Initial Project Budget:	\$5,404,000	USGBC LEED:	N/A

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

5. Capitol Avenue Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	3rd Qtr. 2014
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	4	Revised Completion Date:	2nd 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Design		231	292								292
Bid & Award		25		60					60		60
Construction		2,355		2,360					2,360		2,360
Post Construction				30					30		30
TOTAL		2,611	292	2,450					2,450		2,742

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer		890		870					870		870
Connection Fee Fund											
Sewer Service And Use Charge Capital Improvement Fund		1,721	292	1,580					1,580		1,872
TOTAL		2,611	292	2,450					2,450		2,742

ANNUAL OPERATING BUDGET IMPACT (000'S)											
None											

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$1.3 million due to changes in project scope.
 2015-2019 CIP - Decrease of \$116,000 due to refining of scope and annual estimates.
 2016-2020 CIP - Decrease of \$31,000 due to refining of the latest 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:	2011-2012	Appn. #:	7673
Initial Project Budget:	\$1,584,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

6. 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:	2nd 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	51	6	6								57
Design		108	104	5					5		109
Bid & Award		9		10					10		10
Construction		1,143		1,406					1,406		1,406
Post Construction		1		12					12		12
TOTAL	51	1,267	110	1,433					1,433		1,594

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		6		20					20		20
Sewer Service And Use Charge Capital Improvement Fund	51	1,261	110	1,413					1,413		1,574
TOTAL	51	1,267	110	1,433					1,433		1,594

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 refining of 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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

7. Husted Avenue Sanitary Sewer Improvement - Phase II

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. 2016
Council District:	9	Revised Completion Date:	
Location:	Potreto Drive, Qunito Way and El Codo Way between Custer Drive and Husted Avenue, Husted Avenue between El Codo Way and Cherry Avenue		
Description:	This project removes and replaces approximately 6,240 linear feet of existing 10-inch pipe with 12-inch to 18-inch pipe and rehabilitates existing manholes on El Codo Way between Custer Drive and Husted Avenue, and Husted Avenue between El Codo Way and Cherry Avenue.		
Justification:	This project is required due to capacity deficiency. It will provide capacity in accordance with the General Plan.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		75	75								75
Design		174	275								275
Bid & Award		28		15					15		15
Construction		2,585		3,300					3,300		3,300
Post Construction				11					11		11
TOTAL		2,862	350	3,326					3,326		3,676

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer		297		378			378		378
Connection Fee Fund									
Sewer Service And Use		2,565	350	2,948			2,948		3,298
Charge Capital									
Improvement Fund									
TOTAL		2,862	350	3,326			3,326		3,676

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2016-2020 CIP - Increase of \$788,000 due to defined scope and estimates that were developed from preliminary to design phases.

Notes:

CEQA Project: ALM-7A - Husted Avenue Sanitary Sewer Improvement - Phase II.

FY Initiated:	2014-2015	Appn. #:	7674
Initial Project Budget:	\$2,888,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

8. Husted-Richland Sanitary Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2010
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2013
Council District: 6, 9 **Revised Completion Date:** 4th Qtr. 2015
Location: Husted Avenue from La Mirada to Richland Avenue, and Richland Avenue from Husted Avenue to Curtner Avenue

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.

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

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	49										49
Design	445										445
Bid & Award	7										7
Construction		3,012	2,976	36					36		3,012
Post Construction		14		14					14		14
TOTAL	501	3,026	2,976	50					50		3,527

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		194	194								194
Sewer Service And Use Charge Capital Improvement Fund	501	2,832	2,782	50					50		3,333
TOTAL	501	3,026	2,976	50					50		3,527

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2012-2016 CIP - Decrease of \$219,000 due to deferral of a portion of the work, which was identified as a lower priority by the Sanitary Sewer Master Plan.

2013-2017 CIP - Decrease of \$919,000 due to a deferral of a portion of the work, which was identified as a lower priority by the Sanitary Sewer Master Plan. This lower priority section will be programmed beyond the 5-year CIP, as funding and priorities allow.

2014-2018 CIP - Increase of \$102,000 due to project scope change.

2015-2019 CIP - Increase of \$293,000 due to project scope change to reroute the sewer to another system.

Notes:

CEQA Project: ALM-7C - Husted-Richland Sanitary Sewer Improvements.

FY Initiated: 2010-2011 **Appn. #:** 7254
Initial Project Budget: \$4,270,000 **USGBC LEED:** N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

9. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development Property & Land		80	80	60	60	60	60	60	300		
Design		700	700	700	300	400	300	300	2,000		
Bid & Award		40	40	30	30	30	30	30	150		
Construction		5,623	4,149	4,866	2,550	3,450	2,550	2,550	15,966		
Post Construction		80	30	60	60	60	60	60	300		
TOTAL		6,523	4,999	5,716	3,000	4,000	3,000	3,000	18,716		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund	1,716	79	2,216						2,216		
Sewer Service And Use Charge Capital Improvement Fund	4,807	4,920	3,500	3,000	4,000	3,000	3,000	3,000	16,500		
TOTAL	6,523	4,999	5,716	3,000	4,000	3,000	3,000	3,000	18,716		

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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

10. 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:	2nd 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	36										36
Design	651	37	150								801
Bid & Award		8	40								40
Construction		4,472	8	7,450					7,450		7,458
Post Construction		20		22					22		22
TOTAL	687	4,537	198	7,472					7,472		8,357

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer		1,559		2,500			2,500		2,500
Connection Fee Fund									
Sewer Service And Use	687	2,978	198	4,972			4,972		5,857
Charge Capital									
Improvement Fund									
TOTAL	687	4,537	198	7,472			7,472		8,357

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 accomodate additional flow coming from private development.

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

Notes:

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

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

11. 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. 2016
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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	115										115
Design	82	29	29								111
Bid & Award		15	15	15					15		30
Construction		132	57	2,898					2,898		2,955
Post Construction				35					35		35
TOTAL	197	176	101	2,948					2,948		3,246

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund				1,288					1,288		1,288
Sewer Service And Use Charge Capital Improvement Fund	197	176	101	1,660					1,660		1,958
TOTAL	197	176	101	2,948					2,948		3,246

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

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

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
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

12. Story Road Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2014
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	4th Qtr. 2015
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2017
Council District:	5	Revised Completion Date:	
Location:	Story Road between Capitol Expressway and Leeward Drive		

Description: This project installs approximately 1,600 feet of new 15-inch sewer pipes on Story Road between Capitol Expressway and Leeward Drive to provide additional capacity.

Justification: Capacity improvement is required in this area for the sanitary sewer system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		63		63					63		63
Design		12		157	343				500		500
Bid & Award					9				9		9
Construction					2,576				2,576		2,576
Post Construction					10				10		10
TOTAL		75		220	2,938				3,158		3,158

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund					75				75		75
Sewer Service And Use Charge Capital Improvement Fund		75		220	2,863				3,083		3,083
TOTAL		75		220	2,938				3,158		3,158

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

CEQA Project: King - San Antonio 3 - Story Road Sanitary Sewer Improvement.

FY Initiated:	2014-2015	Appn. #:	7675
Initial Project Budget:	\$3,158,000	USGBC LEED:	N/A

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

13. 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 Landess Avenue, Warmwood Lane, Capewood Lane, Trimble Road between N. Capitol Avenue, and Ashwood Lane

Description: This project upsizes approximately 7,600 feet of 8-inch diameter vitrified clay pipe (VCP) with 10, 12, and 15-inch diameter VCP. The project also installs 600 feet of new pipe under Highway 680.

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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	65	449	207	100					100		372
Design	10	158		300	116				416		426
Bid & Award					14				14		14
Construction					4,516				4,516		4,516
Post Construction					17				17		17
TOTAL	75	607	207	400	4,663				5,063		5,345

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund					173				173		173
Sewer Service And Use Charge Capital Improvement Fund	75	607	207	400	4,490				4,890		5,172
TOTAL	75	607	207	400	4,663				5,063		5,345

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$92,000 due to refining of project scope and annual estimate.
 2016-2020 CIP - Increase of \$20,000 due to refining of 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
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

14. 11th Street Sanitary Sewer Replacement

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:	3	Revised Completion Date:	2nd Qtr. 2016
Location:	11th Street from Martha Street to East Virginia Street		

Description: This project replaces the existing aging sewer line with approximately 1,200 feet of 8-inch and 10-inch pipe along 11th Street from Martha Street to East Virginia Street.

Justification: This project will improve flow, thereby reducing the frequency of maintenance activity performed by the Department of Transportation.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	65	38	38								103
Design		171	171								171
Bid & Award		27	27								27
Construction		1,320	120	1,474					1,474		1,594
Post Construction				24					24		24
TOTAL	65	1,556	356	1,498					1,498		1,919

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Sewer Service And Use Charge Capital Improvement Fund	65	1,556	356	1,498					1,498		1,919
TOTAL	65	1,556	356	1,498					1,498		1,919

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$757,000 due to refined scope and estimates that were developed during the preliminary phase of the project.

2016-2020 CIP - Increase of \$72,000 due to refining of project scope and cost estimate.

Notes:

FY Initiated:	2013-2014	Appn. #:	7610
Initial Project Budget:	\$1,090,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

15. Alum Rock Avenue Sanitary Sewer Replacement

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:	5	Revised Completion Date:	4th Qtr. 2015
Location:	Alum Rock Avenue from King Road to Highway 101		
Description:	This project installs 3,400 feet of 6-inch sanitary sewer along Alum Rock Avenue from King Road to Highway 101.		
Justification:	This project replaces the existing sewer line to increase slope and improve sewer flow thereby reducing maintenance needs. A portion of the existing sewer line is also impacted by the VTA Bus Rapid Transit project, therefore the City will cost share with VTA to redesign and construct the entire sanitary sewer line.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Construction	32	1,093	993	150					150		1,175
Post Construction		50		30					30		30
TOTAL	32	1,143	993	180					180		1,205

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	32	1,143	993	180					180		1,205
TOTAL	32	1,143	993	180					180		1,205

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

FY Initiated:	2013-2014	Appn. #:	7611
Initial Project Budget:	\$1,200,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

16. 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 sewers with new pipe, 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development				50	50	50	50	50	250		
Design				600	600	600	600	600	3,000		
Bid & Award				50	50	50	50	50	250		
Construction		3,328	3,407	3,800	3,800	3,800	3,800	3,800	19,000		
TOTAL		3,328	3,407	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		3,328	3,407	4,500	4,500	4,500	4,500	4,500	22,500		
TOTAL		3,328	3,407	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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

17. Cast Iron Pipe Replacement - West

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:	1, 3, 6, 8, 9	Revised Completion Date:	2nd Qtr. 2016
Location:	Wisteria Way, Inglis Lane, Wooding Court, and Enesco Avenue		
Description:	This project removes and replaces approximately 3,400 feet of cast iron sewer pipes in the west area of San José.		
Justification:	This project replaces the existing aging sewer line with new pipe, which will improve flow, thereby reducing the frequency of maintenance activity.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	47										47
Design	54	53	53								107
Bid & Award		11	11								11
Construction		1,567	1,567	218					218		1,785
Post Construction		22	22	13					13		35
TOTAL	101	1,653	1,653	231					231		1,985

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	101	1,653	1,653	231					231		1,985
TOTAL	101	1,653	1,653	231					231		1,985

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$130,000 due to refined project scope and estimates that were developed during the preliminary phase of the project.

2016-2020 CIP - Increase of \$218,000 due to refining of project scope and cost estimate.

Notes:

FY Initiated:	2013-2014	Appn. #:	7612
Initial Project Budget:	\$1,637,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

18. 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 development and implementation of contracts to identify and repair damaged pipe in the sanitary sewer system. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development				100	100	100	100	100	500		
Design				500	500	500	500	500	2,500		
Bid & Award				30	30	30	30	30	150		
Construction		3,315	3,315	4,870	4,870	4,870	4,870	4,870	24,350		
Post Construction											
TOTAL		3,315	3,315	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		3,315	3,315	5,500	5,500	5,500	5,500	5,500	27,500
TOTAL		3,315	3,315	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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

19. Fourth Major Interceptor, Phase IIB/IIIB

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. 2011
Council District: 4 **Revised Completion Date:** 2nd Qtr. 2016
Location: Zanker Road between Holger Way and Structure
 A at Estancia Drive

Description: This project rehabilitates approximately 3,000 linear feet of 84-inch diameter reinforced concrete pipe along Zanker Road.

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

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	76										76
Design	66	95	95								161
Bid & Award		27	9								9
Construction		2,222		2,494				2,494			2,494
Post Construction				23				23			23
TOTAL	142	2,344	104	2,517				2,517			2,763

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer Connection Fee Fund	112										112
Sewer Service And Use Charge Capital Improvement Fund	30	2,344	104	2,517				2,517			2,651
TOTAL	142	2,344	104	2,517				2,517			2,763

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

- 2011-2015 CIP - Decrease of \$327,000 due to a lower than expected construction cost.
- 2012-2016 CIP - Increase of \$3.5 million due to the addition of Phase IIIB.
- 2013-2017 CIP - Decrease of \$1.6 million due to decrease in project scope.
- 2014-2018 CIP - Decrease of \$2.03 million due to decrease in project scope.
- 2015-2019 CIP - Increase of \$167,000 due to refining of project scope and annual estimate.
- 2016-2020 CIP - Decrease of \$19,000 due to refining of project scope and cost estimate.

Notes:

FY Initiated: 2009-2010 **Appn. #:** 7077
Initial Project Budget: \$3,033,000 **USGBC LEED:** N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

20. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development Design Bid & Award Construction Post Construction		6	6	500	500	500	500	500	2,500		
TOTAL		6	6	500	500	500	500	500	2,500		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer Connection Fee Fund		6	6							
Sewer Service And Use Charge Capital Improvement Fund				500	500	500	500	500	2,500	
TOTAL		6	6	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. This allocation was formerly titled "Infiltration Reduction".

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

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

21. Kelez Drive and El Prado Drive Sanitary Sewer Replacement

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:	2nd Qtr. 2016
Location:	Kelez Drive, Kelez Court, and El Prado Drive at Almaden Expressway		

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.

Justification: This project is required due to structural deterioration of the sanitary system in the area. The project will increase flow efficiency and improve overall effectiveness of the system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	22	41	41								63
Design	43	94	94								137
Bid & Award		4	4								4
Construction		927	927	135					135		1,062
Post Construction				12					12		12
TOTAL	65	1,066	1,066	147					147		1,278

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Sewer Service And Use Charge Capital Improvement Fund	65	1,066	1,066	147					147		1,278
TOTAL	65	1,066	1,066	147					147		1,278

ANNUAL OPERATING BUDGET IMPACT (000'S)										
None										

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$102,000 due to refining of project scope and annual estimate.
 2016-2020 CIP - Increase of \$46,000 due to refining of project scope and annual estimate.

Notes:

FY Initiated:	2013-2014	Appn. #:	7614
Initial Project Budget:	\$1,130,000	USGBC LEED:	N/A

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

22. Mackey Avenue Sanitary Sewer Replacement

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2010
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2012
Council District:	6	Revised Completion Date:	4th Qtr. 2015
Location:	Mackey Avenue, Dawson Avenue, and Cross Way between Dawson Avenue and Northern Road		

Description: This project removes and replaces 2,400 feet of 6-inch vitrified clay pipe on Mackey Avenue, Dawson Avenue, and Cross Way. It may be necessary to acquire additional easements within the Santa Clara Valley Water District, where a portion of the sewer is located, in order to perform the work.

Justification: Internal video inspection shows pipe lines with structural defects on these streets. In addition, the siphon may have some structural damage, which requires frequent maintenance.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	4										4
Design	314										314
Construction		1,159	1,159	90					90		1,249
Post Construction				21					21		21
TOTAL	318	1,159	1,159	111					111		1,588

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Sanitary Sewer Connection Fee Fund	204										204
Sewer Service And Use Charge Capital Improvement Fund	114	1,159	1,159	111					111		1,384
TOTAL	318	1,159	1,159	111					111		1,588

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Decrease of \$30,000 due to changes in project scope.
 2015-2019 CIP - Increase of \$154,000 to cover potential soil settlement and unstable soil found in the area.
 2016-2020 CIP - Increase of \$114,000 due to refining of project scope and cost estimate.

Notes:

Prior to 2015-2019 CIP, this project was titled "Mackey Avenue Sanitary Sewer Rehabilitation".

FY Initiated:	2010-2011	Appn. #:	7615 , 7241
Initial Project Budget:	\$1,350,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

23. Minnesota Avenue Sanitary Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2010
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2012
Council District:	6	Revised Completion Date:	3rd Qtr. 2015
Location:	Minnesota Avenue between Lincoln Avenue and Bird Avenue		
Description:	This project removes and replaces 2,500 feet of 12-inch sanitary sewer pipe to improve flow on Minnesota Avenue between Lincoln and Bird Avenues.		
Justification:	This project replaces the existing aging sewer line with new pipe, which will improve flow, thereby reducing the frequency of maintenance performed by the Department of Transportation.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Design	185										185
Construction		1,540	1,496	30					30		1,526
Post Construction		6		20					20		20
TOTAL	185	1,546	1,496	50					50		1,731

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	185	1,546	1,496	50					50		1,731
TOTAL	185	1,546	1,496	50					50		1,731

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2013-2017 CIP - Decrease of \$106,000 due to changes in project scope.
 2015-2019 CIP - Decrease of \$85,000 due to refining of project scope and annual estimate.

Notes:

FY Initiated:	2010-2011	Appn. #:	7256
Initial Project Budget:	\$1,930,000	USGBC LEED:	N/A

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

24. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	195	30	30								225
Design	723	633	633								1,356
Bid & Award		27	27								27
Construction	588	5,483	3,130	3,168	54				3,222		6,940
Post Construction		50		50	13				63		63
TOTAL	1,506	6,223	3,820	3,218	67				3,285		8,611

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	1,506	6,223	3,820	3,218	67				3,285		8,611
TOTAL	1,506	6,223	3,820	3,218	67				3,285		8,611

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.

Notes:

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

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

25. 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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	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	422	315	315	315	315	315	1,575		
Post Construction		5	5	5	5	5	5	5	25		
TOTAL		500	607	500	500	500	500	500	2,500		

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	500	607	500	500	500	500	500	500	2,500
TOTAL	500	607	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

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

26. 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. 2016
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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	29										29
Design	5	342	500								505
Bid & Award				15				15			15
Construction		1,568		2,770				2,770			2,770
Post Construction				18				18			18
TOTAL	34	1,910	500	2,803				2,803			3,337

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	34	1,910	500	2,803				2,803		3,337
TOTAL	34	1,910	500	2,803				2,803		3,337

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$146,000 due to adjusted estimate based on recently 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.

Notes:

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

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

27. Story Road Easement Sanitary Sewer Replacement

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:	5	Revised Completion Date:	4th Qtr. 2015
Location:	On sanitary sewer easement in residential backyards between Story Road and Ramstad Drive		
Description:	This project removes and replaces approximately 2,000 feet of 6-inch and 8-inch diameter vitrified clay pipe and six sanitary sewer manholes in residential backyards between Story Road and Ramstad Drive.		
Justification:	This project is in response to frequent sanitary sewer maintenance by the Department of Transportation Infrastructure Maintenance staff.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	70										70
Design	95										95
Bid & Award	2	19	19								21
Construction		1,401	1,114	287					287		1,401
Post Construction		13		13					13		13
TOTAL	167	1,433	1,133	300					300		1,600

FUNDING SOURCE SCHEDULE (000'S)

Sewer Service And Use Charge Capital Improvement Fund	167	1,433	1,133	300					300		1,600
TOTAL	167	1,433	1,133	300					300		1,600

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$968,000 due to scope change.

2015-2019 CIP - Decrease of \$100,000 to reflect a construction cost reduction due to relocating a sewer main from a residential backyard to the public right of way.

Notes:

FY Initiated:	2012-2013	Appn. #:	7476
Initial Project Budget:	\$732,000	USGBC LEED:	N/A

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

28. The Villages Sanitary Sewer Replacement

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:	8	Revised Completion Date:	4th Qtr. 2015
Location:	Villages Retirement Community near Cribari Lane and Villages Parkway		

Description: This project removes approximately 2,250 feet of sewer lines and relocates the sewer lines from the easement to the public street in the Villages Retirement Community near Cribari Lane and Villages Parkway.

Justification: This project is in response to frequent sanitary sewer maintenance required by the Department of Transportation. The pipe will be relocated within the public roadway due to limited utility space within the 15-foot easement.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	97										97
Design	15	144	144								159
Bid & Award		26	26								26
Construction		897	595	302					302		897
Post Construction		13		13					13		13
TOTAL	112	1,080	765	315					315		1,192

FUNDING SOURCE SCHEDULE (000'S)											
Sewer Service And Use Charge Capital Improvement Fund	112	1,080	765	315					315		1,192
TOTAL	112	1,080	765	315					315		1,192

ANNUAL OPERATING BUDGET IMPACT (000'S)											
None											

Major Changes in Project Cost:

N/A

Notes:

FY Initiated:	2013-2014	Appn. #:	7618
Initial Project Budget:	\$1,232,000	USGBC LEED:	N/A

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

29. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development											
Property & Land											
Design		800	800	800	800	800	800	800	4,000		
Bid & Award		40	40	40	40	40	40	40	200		
Construction		6,088	6,451	6,160	6,160	6,160	6,160	6,160	30,800		
Post Construction											
TOTAL		6,928	7,291	7,000	7,000	7,000	7,000	7,000	35,000		

FUNDING SOURCE SCHEDULE (000'S)

Sanitary Sewer	100	100								
Connection Fee Fund										
Sewer Service And Use	6,828	7,191	7,000	7,000	7,000	7,000	7,000	7,000	35,000	
Charge Capital										
Improvement Fund										
TOTAL	6,928	7,291	7,000	7,000	7,000	7,000	7,000	7,000	35,000	

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
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

30. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		81	81	81	84	84	84	85	418		
TOTAL		81	81	81	84	84	84	85	418		

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		81	81	81	84	84	84	85	418		
TOTAL		81	81	81	84	84	84	85	418		

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

Appn. #: 5241

31. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		3,236	3,273	750	750	750	750	750	3,750		
TOTAL		3,236	3,273	750	750	750	750	750	3,750		

FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		1,609	1,646	400		100	100	100	700		
Sewer Service And Use Charge Capital Improvement Fund		1,627	1,627	350	750	650	650	650	3,050		
TOTAL		3,236	3,273	750	750	750	750	750	3,750		

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

Appn. #: 4964, 4696

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

32. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		4,634	4,634	2,500	2,500	2,500	2,500	2,500	12,500		
TOTAL		4,634	4,634	2,500	2,500	2,500	2,500	2,500	12,500		
FUNDING SOURCE SCHEDULE (000'S)											
Sewer Service And Use Charge Capital Improvement Fund		4,634	4,634	2,500	2,500	2,500	2,500	2,500	12,500		
TOTAL		4,634	4,634	2,500	2,500	2,500	2,500	2,500	12,500		

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

33. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		1,142	1,142	1,200	1,200	1,200	1,100	1,100	5,800		
TOTAL		1,142	1,142	1,200	1,200	1,200	1,100	1,100	5,800		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		500	500	600		100	100	100	900		
Sewer Service And Use Charge Capital Improvement Fund		642	642	600	1,200	1,100	1,000	1,000	4,900		
TOTAL		1,142	1,142	1,200	1,200	1,200	1,100	1,100	5,800		

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

Appn. #: 7242

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

34. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	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

35. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		75	75	50	25	25	25	25	150		
TOTAL		75	75	50	25	25	25	25	150		
FUNDING SOURCE SCHEDULE (000'S)											
Sewer Service And Use Charge Capital Improvement Fund		75	75	50	25	25	25	25	150		
TOTAL		75	75	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
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

36. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		725	725	950	950	950	950	950	4,750		
TOTAL		725	725	950	950	950	950	950	4,750		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund				100	50	100	100	100	450		
Sewer Service And Use Charge Capital Improvement Fund		725	725	850	900	850	850	850	4,300		
TOTAL		725	725	950	950	950	950	950	4,750		

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

37. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		475	475	475	475	475	475	475	2,375		
TOTAL		475	475	475	475	475	475	475	2,375		
FUNDING SOURCE SCHEDULE (000'S)											
Sanitary Sewer Connection Fee Fund		190	190	190	90	190	190	190	850		
Sewer Service And Use Charge Capital Improvement Fund		285	285	285	385	285	285	285	1,525		
TOTAL		475	475	475	475	475	475	475	2,375		

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

Sanitary Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

38. 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	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	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



2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM



SANITARY SEWER SYSTEM

SUMMARY OF PROJECTS THAT START AFTER 2015-2016

The Summary of Projects that Start after 2015-2016 includes those projects that have funding budgeted starting after 2015-2016.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Summary of Projects that Start after 2015-2016

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. 2018
Total Budget:	\$2,980,000	Initial End Date:	2nd Qtr. 2011
Council District:	3, 7	Revised End Date:	2nd Qtr. 2019
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:	\$3,731,000	Revised Start Date:	3rd Qtr. 2017
Total Budget:	\$3,885,000	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.

Sanitary Sewer System

2016-2020 Adopted Capital Improvement Program

Summary of Projects that Start after 2015-2016

Project Name:	Westmont Avenue and Harriet Avenue Sanitary Sewer Improvement	Initial Start Date:	3rd Qtr. 2014
5-Year CIP Budget:	\$3,796,000	Revised Start Date:	3rd Qtr. 2018
Total Budget:	\$3,796,000	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.
