
Program: Utilities/Wastewater – Capital Construction

Services Delivered:

This activity provides for the planning, engineering and construction of sewer lines, pumping stations, and treatment facilities for the Wastewater Program. The Public Works Project Specialist is shown here, but actual expenditures are spread across Wastewater, Water, and Transportation projects.

This portion of the Wastewater system receives financing from System Development Charge revenues and transfers from Wastewater operations. The Wastewater system includes the treatment plant, five pump stations, and the collection system. Major repairs and improvements are financed through this capital budget.

This budget sets aside funds to provide for the major rehabilitation of the treatment plant, pump stations and replacement of deteriorated sewer piping within the collection system.

Personnel:

	BUDGET FY'15 #	BUDGET FY'16 #	BUDGET FY'17 #	REVISED FY'17 #	A D O P T E D FY'18 #	PROJECTED FY'19 #
Public Works Project Specialist	1.00	1.00	1.00	1.00	1.00	1.00

FY'18 Anticipated Accomplishments & Corresponding Council Goal - Strategic Plan Item:

Maintain, Operate, and Expand our Infrastructure

Objective 3: Ensure sewer infrastructure needs are met

Action 1: Expand Wastewater Plant (PAVE).

- A design-build contractor was selected in FY'17 Wastewater Treatment Facility Plan Update.

Action 3: Initiate Fats, Oils and Grease education/enforcement program.

- Staff will work with Parks and Community Development Department to draft new education/enforcement program for consideration.

Action 4: Begin Webster 2 alternatives study/design/construction.

- Evaluate alternatives to rehabilitate or replace the Webster 2 sewer lift station.

Program: Utilities/Wastewater – Capital Construction

Budget Highlights:

The project listing shows resources across the columns. Columns show the “Actual resources through FY’16”; the re-assessed resource needs of projects using current data for the “Revised FY’17” column, guiding our “Adopted FY’18” and resources estimated “Through FY’18”. We have “Future Years” and “Total Project” columns for each project. Refer to the Capital Budget Book for more information on individual projects.

The individual project pages describe the project, the need, future and ongoing costs, and the total project cost. The tables show when and where the money is budgeted to come from, and the expenses incurred and budgeted to incur through completion.

FY’17 Activity Review:

- Structural sewer lines were replaced in the core of the City.
- Adopted the Collection System Master Plan.
- Completed construction of replacement Webster pump station.
- Began Phase II upgrade.

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT RESOURCES

		Actual Through FY'16	Estimated FY'17	Adopted FY'18	Total Through FY'18	Future Years	Total Project
	Miscellaneous Projects - General						
SE0000	Fund 728	1,857,372	(425,299)	(370,000)	1,432,073	7,041,190	6,671,190
SE4964	WRP Phase 2 Expansion	4,941,995	2,385,000	15,750,000	7,326,995	1,050,000	16,800,000
SE5080	WRP Structural Repairs Western Avenue Sewer	383,000	0	75,000	383,000	300,000	758,000
SE6012	Replacement	10,000	910,000	770,000	920,000	410,000	2,100,000
SE6112	Sewer Rate Study SE & RS	70,000	0	0	70,000	0	70,000
SE6156	Sewer Mains Related to Overlays Collection System Maintenance-	50,000	135,000	0	185,000	1,590,000	1,775,000
SE6198	Repair Pump-Lift Station Equipment	300,000	175,000	175,000	475,000	300,000	950,000
SE6199	Improvement Spaulding Indust. Park WW	95,000	10,000	100,000	105,000	40,000	245,000
SE6200	Infrastructure	100,000	0	0	100,000	0	100,000
SE6237	General Engineering Services Effluent Mixing Zone Dye Tracer	60,000	20,000	20,000	80,000	80,000	180,000
SE6238	Study	50,000	0	0	50,000	0	50,000
SE6239	WRP Equipment Improvement 5th Street Sewer Main Structural	100,000	50,000	30,000	150,000	200,000	380,000
SE6323	Repairs	0	400,000	400,000	400,000	400,000	1,200,000
NEW PROJECTS							
SE6334	Public Works Asset Management	0	0	200,000	0	0	200,000
SE6335	Webster Pump Station No. 2 Rehab	0	0	200,000	0	600,000	800,000
	Total Projects	8,017,367	3,659,701	17,350,000	11,677,068	12,011,190	32,279,190
MISCELLANEOUS WASTEWATER FUNDS							
	Miscellaneous Projects - SDC Fund 722	884,142	(26,478)	(48,800)	808,864	(808,864)	0
	Miscellaneous Projects - AFD Fund 725	84,447	1,038	0	85,485	0	85,485
	Total Miscellaneous Funds	968,589	(25,440)	(48,800)	894,349	(808,864)	85,485

CLOSED OR CANCELLED CAPITAL PROJECT RESOURCES

SE5081	Collection System Master Plan Update	305,000	(6,401)	0	298,599	0	298,599
SE6064	Sewer Main Structural Repairs	1,970,000	(80,000)	0	1,890,000	0	1,890,000
SE6240	Webster PS No. 1 Rehab	750,000	250,000	0	1,000,000	0	1,000,000
	Total Closed Projects	3,025,000	163,599	0	3,188,599	0	3,188,599
	Grand Total - All Projects	12,010,956	3,797,860	17,301,200	15,760,016	11,202,326	35,553,274

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT SUMMARIES FOR FY'18

	Adopted FY'18 Beginning Fund Balance	Adopted FY'18 Revenue	Adopted FY'18 Capital Outlay	Adopted FY'18 Transfers	Adopted FY'18 Appropriated Fund Balance
SE0000	Miscellaneous Projects - General Fund 728	482,401	(370,000)	0	112,401
SE4964	WRP Phase 2 Expansion	3,554,782	15,750,000	19,304,782	0
SE5080	WRP Structural Repairs	258,689	75,000	333,689	0
SE6012	Western Avenue Sewer Replacement	819,879	770,000	1,589,879	0
SE6112	Sewer Rate Study SE & RS	25,000	0	25,000	0
SE6156	Sewer Mains Related to Overlays	96,446	0	96,446	0
SE6198	Collection System Maintenance-Repair	45,085	175,000	220,085	0
SE6199	Pump-Lift Station Equipment Improvement	26,075	100,000	126,075	0
SE6200	Spaulding Indust. Park WW Infrastructure	95,000	0	95,000	0
SE6237	General Engineering Services	24,589	20,000	44,589	0
SE6238	Effluent Mixing Zone Dye Tracer Study	50,000	0	50,000	0
SE6239	WRP Equipment Improvement	70,561	30,000	100,561	0
SE6323	5th Street Sewer Main Structural Repairs	325,000	400,000	725,000	0
NEW PROJECTS					
SE6334	Public Works Asset Management	0	200,000	200,000	0
SE6334	Webster Pump Station No. 2 Rehab	<u>0</u>	<u>200,000</u>	<u>200,000</u>	<u>0</u>
	Total Projects	<u>5,873,507</u>	<u>17,350,000</u>	<u>23,111,106</u>	<u>0</u>
MISCELLANEOUS WASTEWATER FUNDS					
	Miscellaneous Projects - SDC Fund 722	857,664	(48,800)	0	808,864
	Miscellaneous Projects - AFD Fund 725	<u>4,544</u>	<u>0</u>	<u>0</u>	<u>4,544</u>
	Total Miscellaneous Funds	<u>862,208</u>	<u>(48,800)</u>	<u>0</u>	<u>813,408</u>
	Grand Total - All Projects	<u>6,735,715</u>	<u>17,301,200</u>	<u>23,111,106</u>	<u>925,809</u>

Program: Utilities/Wastewater – Capital Construction

Financial Summary

	ACTUAL FY'15 \$	ACTUAL FY'16 \$	BUDGET FY'17 \$	REVISED FY'17 \$	A D O P T E D FY'18 \$	PROJECTED FY'19 \$
Beginning Fund Balance	<u>4,180,610</u>	<u>5,578,009</u>	<u>4,974,389</u>	<u>4,974,389</u>	<u>6,735,715</u>	<u>925,809</u>
Resources						
Development Charges	291,403	658,827	200,000	200,000	444,700	444,700
Investment Interest	33,015	53,829	0	0	2,500	2,500
Advance Finance Interest	271	261	0	0	0	0
SDC Loans	5,857	5,458	0	0	4,000	4,000
General Fund	150,000	155,000	220,000	220,000	350,000	0
Sewer Fund	1,647,392	1,719,000	3,028,300	3,028,300	2,400,000	2,000,000
Water Fund	0	0	0	0	100,000	0
Equipment Replacement	550,000	0	0	0	0	0
Revenue from Other Agencies	0	206,995	0	0	0	0
Miscellaneous Revenues	<u>279</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>14,000,000</u>	<u>0</u>
Total Current Revenues	<u>2,678,217</u>	<u>2,799,370</u>	<u>3,448,300</u>	<u>3,448,300</u>	<u>17,301,200</u>	<u>2,451,200</u>
Total Resources	<u>6,858,827</u>	<u>8,377,379</u>	<u>8,422,689</u>	<u>8,422,689</u>	<u>24,036,915</u>	<u>3,377,009</u>
Requirements						
Capital Outlay	<u>1,280,818</u>	<u>1,655,490</u>	<u>8,107,727</u>	<u>8,107,727</u>	<u>23,111,106</u>	<u>2,055,000</u>
Subtotal Expenditures	<u>1,280,818</u>	<u>1,655,490</u>	<u>8,107,727</u>	<u>8,107,727</u>	<u>23,111,106</u>	<u>2,055,000</u>
Appropriated Fund Balance	<u>5,578,009</u>	<u>6,721,889</u>	<u>314,962</u>	<u>314,962</u>	<u>925,809</u>	<u>1,322,009</u>
Total Requirements	<u>6,858,827</u>	<u>8,377,379</u>	<u>8,422,689</u>	<u>8,422,689</u>	<u>24,036,915</u>	<u>3,377,009</u>

Program: Utilities/Wastewater – Capital Construction

Project	SE0000	Fund 728 Sewer Capital Projects – General
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Project Description

This project description is used by our accounting function to account for all funds located in the Wastewater Capital Projects Funds that are not specifically appropriated to a project. All funds from System Development Charges and all surplus from wastewater operations are deposited in the capital projects fund. When appropriations are needed in the ensuing fiscal period, or if construction scopes are altered to respond to changed conditions, this project is the source for financing for the projects.

Need for Project

The City Council has implemented a series of rate system structures to prepare for these projects, and this account is the method for accumulating all resources available to the system.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Estimated Total Project Cost: This project has no cost. It is an accounting entity for the purpose of accumulating resources.

Schedule

The cash financing accumulation for the wastewater expansion will be continued in this account, with interim financing for the next phase of construction augmenting cash flow to allow the single debt basis anticipated in the rate analysis.

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Ops Fund Transfers	13,759,676	3,028,300	3,028,300	2,400,000	19,187,976	2,000,000	5,329,834	26,517,810
Wastewater Capital & SDC's to Projects	(18,888,610)	(3,615,000)	(3,453,599)	(2,770,000)	(25,112,209)	(1,905,000)	(5,470,000)	(32,487,209)
Advance Finance	745,988				745,988		5,903	751,891
Investment Interest	2,309,434				2,309,434			2,309,434
Wastewater & RSSSD SDC's	2,522,569				2,522,569			2,522,569
Other/ETO FY16	1,408,315				1,408,315			1,408,315
Total Resources					1,062,073			1,022,810

Requirements

Expenditures	454,781				454,781			454,781
Transfers	494,891				494,891			494,891
Ending Balance by Year	907,700	148,043	482,401	112,401	112,401	207,401	73,138	73,138
Total Requirements					1,062,073			1,022,810

Program: Utilities/Wastewater – Capital Construction

Project	SE4964	WRP Phase 2 Expansion
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Project Description

This project will provide redundant aeration basin and primary clarifier capacity, thickener modifications/upgrades, seismic upgrades, replacement UV equipment, major electrical and SCADA improvements. The project will use a progressive design/build format to construct the improvements.



Need for Project

The project will upgrade and provide redundancy for the Water Restoration Plant to meet current and anticipated treatment requirements from ODEQ.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

After construction of improvements, routine operation and maintenance costs.

Estimated Total Project Cost: \$24,000,000 (Revised from \$9,970,000 to reflect current costs and needs)

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	3,355,000	2,035,000	2,035,000	1,250,000	6,640,000	900,000		7,540,000
Wastewater SDC's	1,380,000	350,000	350,000	500,000	2,230,000	150,000		2,380,000
ETO FY'16	206,995				206,995			206,995
Bond				14,000,000	14,000,000			14,000,000
Total Resources					23,076,995			24,126,995

Requirements

Expenditures	1,272,213	5,378,200	2,500,000	19,304,782	23,076,995	1,050,000		24,126,995
Transfers/Contingency					0			0
Ending Balance by Year	3,669,782	(950)	3,554,782	0	0	0	0	0
Total Requirements					23,076,995			24,126,995

Program: Utilities/Wastewater – Capital Construction

Project	SE5080	WRP Structural Repairs
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Project Description

This project will fund many minor repairs necessary for the proper operation and long term maintenance of the Water Restoration Plant. Included items are: roof repairs, exterior painting/restoration, stairways and landings. This project will also repair/install needed fall protection.

Need for Project

The project is needed for efficiency and for safety. It will create a fund for a large number of small capital projects to ensure the longevity of the Water Restoration Plant and its supporting structures. Two out buildings with flat roofs have wood rot and need to be re-roofed. We will convert the flat roofs to a slope roof with metal covers similar to other out buildings we have on site.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of both known and unknown deficiencies.

Estimated Total Project Cost: \$ 75,000/year as available

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	383,000			75,000	458,000	75,000	225,000	758,000
Total Resources					458,000			758,000

Requirements

Expenditures	94,311	209,610	30,000	333,689	458,000	75,000	225,000	758,000
Transfers/ Contingency					0			0
Ending Balance by Year	288,689	0	258,689	0	0	0	0	0
Total Requirements					458,000			758,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6012	Western Avenue Sewer Replacement
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Project Description

This project will replace and upsize old deteriorated concrete sewer pipe in Western Avenue from G Street to the Water Restoration Plant. Approximately 4,700 lineal feet of 18" diameter sewer pipe will be installed.

Need for Project

The existing concrete pipe is severely deteriorated and is structurally failing. This pipeline serves the area west of Western Avenue from North of G Street to the Rogue River. Increasing flows in the future are expected in the area due to growth. This pipeline also receives flow from the Bridge Street Pump Station. Currently the pipeline experiences surcharging during peak rainfall events. This project was ranked as the top priority for hydraulic capacity and structural improvements in the 2016 Collection System Master Plan Update.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation of both known and unknown deficiencies, design and construction.

Estimated Total Project Cost: \$2,100,000 (Updated from \$1,800,000 to reflect water and storm drain needs)

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects		600,000	600,000	420,000	1,020,000	225,000		1,245,000
Wastewater SDC's 86%	10,000	225,000	225,000		235,000		185,000	420,000
General Fund		85,000	85,000	350,000	435,000			435,000
Total Resources					1,690,000			2,100,000

Requirements

Expenditures	121	914,879	100,000	1,589,879	1,690,000	225,000	185,000	2,100,000
Transfers/Contingency					0			0
Ending Balance by Year	9,879	0	819,879	0	0	0	0	0
Total Requirements					1,690,000			2,100,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6112	Sewer Rate & SDC Study
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Project Description

This project will evaluate and recommend appropriate service area sewer rates and System Development Charges (SDC) after the Wastewater System Master Plans are all updated.

Need for Project

Once the Urban Growth Boundary is adjusted, Wastewater System Master Plans will need to be updated. As part of the plan updates, new Capital Improvement Plans (CIPs) will be developed. With new CIPs, wastewater rate and SDC methodology will need to be updated to ensure adequacy. Accurate methodology helps to ensure new system users pay an appropriate share of costs.

Council Strategic Goal

Provide Cooperative, Shared Leadership Involving Council, Staff and Community
 Objective 1: Evaluate/ensure financial stability of Utility Funds.

Future and Ongoing Costs

Not applicable.

Estimated Total Project Cost: \$70,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	70,000				70,000			70,000
Total Resources					70,000			70,000

Requirements

Expenditures		65,000	45,000	25,000	70,000			70,000
Transfers/Contingency					0			0
Ending Balance by Year	70,000	0	25,000	0	0	0	0	0
Total Requirements					70,000			70,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6156	Sewer Mains Related to Overlays
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Project Description

This project will replace old structurally deficient sewer pipe in streets prior to scheduled overlay work.

Need for Project

The majority of the sewer lines are old, have structural defects (cracks, holes and broken pipe) and extensive root encroachment which requires frequent and difficult cleaning and maintenance. This project will assist completion of underground infrastructure work prior to scheduled street overlays.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Design and construction of deficient mains:

Prospect between Manzanita and Bellevue

Bellevue between Fry and Elm

Estimated Total Project Cost: \$1,900,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	50,000	125,000	0		50,000		1,715,000	1,765,000
Wastewater SDC's					0			0
General Fund- Policy & Legislation		135,000	135,000		135,000			135,000
Total Resources					185,000			1,900,000

Requirements

Expenditures	48,554	260,000	40,000	96,446	185,000		1,715,000	1,900,000
Transfers/ Contingency					0			0
Ending Balance by Year	1,446	0	96,446	0	0	0	0	0
Total Requirements					185,000			1,900,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6198	Collection System Maintenance/Repair
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Project Description

This project will replace badly deteriorated sewer mains or appurtenances, typically prior to paving due to new development or alley repairs. In addition, this project will repair collection system deficiencies related to inflow and infiltration (I & I).

Need for Project

The maintenance is needed to repair severely structurally defective sewer mains or appurtenances, when encountered. Replacement prior to paving avoids the need to cut new or recently replaced paving due to sewer line failure. Recent storm events resulted in high flows from the Darneille Pump Station. The flows increased rapidly in correlation to the amount of rainfall indicating a large amount of I & I. This project will correct areas of excessive I & I related to manholes identified with the recent flow monitoring information.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unanticipated problems.

Estimated Total Project Cost: The target is **\$75,000** per year when funds are available.

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	300,000	175,000	175,000	175,000	650,000	75,000	225,000	950,000
Wastewater SDC's					0			0
					0			0
Total Resources					650,000			950,000

Requirements

Expenditures	279,915	179,743	150,000	220,085	650,000	75,000	225,000	950,000
Transfers/ Contingency					0			0
Ending Balance by Year	20,085	0	45,085	0	0	0	0	0
Total Requirements					650,000			950,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6199	Pump/Lift Station Equipment Improvement
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Project Description

This is the replacement or rebuild project for miscellaneous equipment such as pumps, motors and emergency generators located at the various pump and lift stations.

Need for Project

Each year pieces of equipment fail due to age and/or mechanical fault. This project will allow the funding to replace or overhaul equipment when needed.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Replacement or repair of equipment as potential failure is identified. The next large piece of equipment will be a Darneille Pump Station pump/motor assembly.

Estimated Total Project Cost: \$10,000/year as available

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	95,000	10,000	10,000	100,000	205,000	10,000	30,000	245,000
Wastewater SDC's					0			0
Total Resources					205,000			245,000

Requirements

Expenditures	38,925	35,000	40,000	126,075	205,000	10,000	30,000	245,000
Transfers/Contingency					0			0
Ending Balance by Year	56,075	0	26,075	0	0	0	0	0
Total Requirements					205,000			245,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6200	Spalding Industrial Park Wastewater Infrastructure Study
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Project Description

This project will evaluate and propose wastewater infrastructure for the Spalding Industrial Park. Potential wastewater infrastructure would include a basic collection system, a new pump station and associated force main. The initial evaluation will be to determine the extent of the service area (in addition to the Industrial Park) to serve the eastern end of the Urban Growth Boundary. The service area determination will be required to appropriately size the infrastructure.

Need for Project

Additional development in the eastern end of the Urban Growth Boundary, both residential and industrial, will need to rely on a new pump station for sewer service.

Council Strategic Goal

Encourage Economic Opportunities

Objective 1: Facilitate an environment to encourage business prosperity and economic opportunities.

Future and Ongoing Costs

Once the infrastructure components are properly sized and located, an estimated project cost to install can be developed to reflect required construction costs.

Estimated Total Project Cost: \$100,000 (Revised from \$2,500,000 to reflect study/evaluation only)

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	100,000				100,000			100,000
Wastewater SDC's					0			0
Total Resources					100,000			100,000

Requirements

Expenditures		75,000	5,000	95,000	100,000			100,000
Transfers/Contingency					0			0
Ending Balance by Year	100,000	0	95,000	0	0	0	0	0
Total Requirements					100,000			100,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6237	General Engineering Services
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Project Description

This project will fund the process to obtain a Wastewater Master Services Agreement for Professional Engineering and Permitting Services (MSA). With this MSA, a number of individual task orders will be assigned, negotiated and executed to undertake a variety of assignments on the City’s wastewater facilities.

Need for Project

Given the nature of these individual assignments, it is desired for our MSA consultant to provide general engineering support and guidance for the overall wastewater program to develop the specific individual tasks.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

General support for Wastewater Fund (known and unknown).

Estimated Total Project Cost: \$20,000 per year as funds are available.

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	60,000	20,000	20,000	20,000	100,000	20,000	60,000	180,000
Wastewater SDC's					0			0
Total Resources					100,000			180,000

Requirements

Expenditures	20,411	48,682	35,000	44,589	100,000	20,000	60,000	180,000
Transfers/Contingency					0			0
Ending Balance by Year	39,589	0	24,589	0	0	0	0	0
Total Requirements					100,000			180,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6238	Effluent Mixing Zone Dye Tracer Study
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Project Description:

The Water Restoration Plant has a permitted effluent mixing zone in the Rogue River. The allowable mixing zone is that portion of the Rogue River contained within a band extending out 50 feet from the north bank and extending from a point 10 feet upstream of the effluent outfall to a point 300 feet downstream from the outfall. Dye will be injected into the effluent and samples will be collected over time in the river to confirm and calibrate the mixing zone model. The model will be used to determine dilution ratios within the mixing zone and evaluate the reasonable potential to exceed receiving water quality criteria in the Rogue River.

Need for Project

To meet NPDES permit renewal requirements.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

May require upgrades to treatment processes.

Estimated Total Project Cost: \$50,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	50,000				50,000			50,000
Wastewater SDC's					0			0
Total Resources					50,000			50,000

Requirements

Expenditures		25,000	0	50,000	50,000			50,000
Transfers/Contingency					0			0
Ending Balance by Year	50,000	0	50,000	0	0	0	0	0
Total Requirements					50,000			50,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6239	WRP Equipment Improvement
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Project Description

This is the replacement/refurbishment fund for miscellaneous equipment such as gas blender, aeration basin mixers, various pumps, compressors and motors.

Need for Project

Each year pieces of equipment fail due to age and/or mechanical failure. This project will allow the funding of replacement or refurbished equipment as needed.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unanticipated problems.

Estimated Total Project Cost: \$50,000 per year as funds are available.

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	100,000	50,000	50,000	30,000	180,000	50,000	150,000	380,000
Wastewater SDC's					0			0
Total Resources					180,000			380,000

Requirements

Expenditures	14,439	100,000	65,000	100,561	180,000	50,000	150,000	380,000
Transfers/ Contingency					0			0
Ending Balance by Year	85,561	0	70,561	0	0	0	0	0
Total Requirements					180,000			380,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6323	5th Street Sewer Main Structural Repairs (Multiple Phases)
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Project Description

This project will replace very old structurally deficient sewer pipe in 5th Street and the alleys fronting 5th Street between 'M' and 'A' streets. The alleys identified for repair will be ranked as to severity and the project completed in multiple phases.

Need for Project

The majority of the sewer lines in the alleys are very old 6" pipe, have structural defects (cracks, holes and broken pipe) and extensive root encroachment which requires frequent, difficult cleaning and maintenance.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Design and construction expected to continue as funding allows.

Estimated Total Project Cost: \$1,200,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects		400,000	400,000	400,000	800,000	350,000	50,000	1,200,000
General Fund					0			0
					0			0
Total Resources					800,000			1,200,000

Requirements

Expenditures		400,000	75,000	725,000	800,000	350,000	50,000	1,200,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	325,000	0	0	0	0	0
Total Requirements					800,000			1,200,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6334	Public Works Asset Management
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Project Description

This project will purchase software and assist staff with the implementation of asset management.

Need for Project

The recent PAVE audit identified asset management as a necessary program to implement throughout Public Works. With the current upgrade to the Water Restoration Plant (WRP) it is imperative to initiate the program implementation prior to the new equipment and SCADA installation. The work at the WRP will create the template for implementation during the WRP replacement project.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Final cost estimates will be developed after detailed project scoping is complete. Ongoing costs would be routine maintenance, updates and licensing fees.

Estimated Total Project Cost: \$200,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects				100,000	100,000			100,000
Water Ops				100,000	100,000			100,000
General Fund					0			0
Total Resources					200,000			200,000

Requirements

Expenditures				200,000	200,000			200,000
Transfers					0			0
Ending Balance by Year	0		0	0	0	0	0	0
Total Requirements					200,000			200,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6335	Webster Pump Station No. 2 Rehab
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Project Description

This project will evaluate whether to replace or rehabilitate Webster Pump Station No. 2. The improvements will be designed to meet current industry standards. During the predesign effort, a determination will be made whether to construct a new pump station above ground or to rehabilitate the existing. This pump station is currently located below ground, within the Webster Road right of way cul-de-sac (adjacent to Rogue Lea Estates).

Need for Project

The pump station is approaching 50 years old and does not meet current service standards. The new pump station will be built to meet current industry standards.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Routine and periodic maintenance.

Estimated Total Project Cost: \$800,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects				200,000	200,000	200,000	400,000	800,000
Total Resources					200,000			800,000

Requirements

Expenditures				200,000	200,000	200,000	400,000	800,000
Transfers/Contingency					0			0
Ending Balance by Year	0		0	0	0	0	0	0
Total Requirements					200,000			800,000

Project Closed – FY 2017

Program: Utilities/Wastewater – Capital Construction

Project	SE5081	Collection System Master Plan Update
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Project Description

This project will update the Collection System Master Plan completed in 2004.

Need for Project

The Master Plan Update will identify infrastructure requirements and sizing to serve the enlarged Urban Growth Boundary.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 1: Plan and develop infrastructure.

Future and Ongoing Costs

After preliminary discussions to update and calibrate flow model, it has been determined original project cost estimate was low.

New flow models will be developed and flow monitoring will be complete FY'12. Completion of the Master Plan will not occur until after the UGB enlargement process is complete.

Estimated Project Cost: \$305,000 (Revised from \$225,000 to reflect remaining RS share. Original Estimated Total Project Cost was \$ 100,000)

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	305,000		(6,401)		298,599			298,599
Total Resources					298,599			298,599

Requirements

Expenditures	298,599	4,568	0		298,599			298,599
Transfers/Contingency					0			0
Ending Balance by Year	6,401	0	0	0	0	0	0	0
Total Requirements					298,599			298,599

Project Closed – FY 2017

Program: Utilities/Wastewater – Capital Construction

Project	SE6064	Sewer Main Structural Repairs (Multiple Phases)
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Project Description

This project will replace very old structurally deficient sewer pipe in 5th Street, the alleys fronting 5th Street between M and A streets and the alleys fronting Pine Street between Bridge and G streets. The alleys identified for repair will be ranked as to severity and the project completed in multiple phases.

Need for Project

The majority of the sewer lines in the alleys are very old 6" pipe, have structural defects (cracks, holes and broken pipe) and extensive root encroachment which requires frequent and difficult cleaning and maintenance. This project combines the top two ranked priorities for structural repair in the 2004 Collection System Master Plan.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Design and construction expected to continue as funding allows.

The current funding should complete all alley work associated with Pine Street.

Estimated Total Project Cost: \$3,700,000

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	1,515,000		(80,000)		1,435,000			1,435,000
General Fund	455,000				455,000			455,000
Total Resources					1,890,000			1,890,000

Requirements

Expenditures	1,766,332	99,354	123,668		1,890,000			1,890,000
Transfers/ Contingency					0			0
Ending Balance by Year	203,668	0	0	0	0	0	0	0
Total Requirements					1,890,000			1,890,000

Project Closed – FY 2017

Program: Utilities/Wastewater – Capital Construction

Project	SE6240	Webster Pump Station No. 1 Rehab
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Project Description

This project will evaluate whether to replace or rehabilitate Webster Pump Station No. 1. The improvements will be designed to meet current industry standards. During the predesign effort, a determination will be made whether to construct a new pump station above ground or to rehabilitate the existing. This pump station is currently located below ground, within the Webster Road right of way at the Reinhart Volunteer Park.

Need for Project

Webster Pump Station No. 1 is currently capacity deficient. The pump station is approaching 50 years old and does not meet current service standards. The new pump station will be built to meet current industry standards.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Routine and periodic maintenance.

Estimated Total Project Cost: \$1,000,000 (revised from \$750,000)

Resources

	Actual Through FY'16	FY'17 Adopted	FY'17 Estimated	FY'18 Adopted	Through FY'18	FY'19 Projected	Future	Total Project
Wastewater Capital Projects	750,000	200,000	250,000		1,000,000			1,000,000
Wastewater SDC's					0			0
Total Resources					1,000,000			1,000,000

Requirements

Expenditures	424,633	312,691	575,367		1,000,000			1,000,000
Transfers/ Contingency					0			0
Ending Balance by Year	325,367	0	0	0	0	0	0	0
Total Requirements					1,000,000			1,000,000

