
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'16 #	BUDGET FY'17 #	BUDGET FY'18 #	REVISED FY'18 #	ADOPTED FY'19 #	PROJECTED FY'20 #
Public Works Project Specialist	1.00	1.00	1.00	1.00	1.00	1.00

FY'19 Anticipated Accomplishments & Corresponding Council Goal - Strategic Plan Item:

Maintain, Operate, and Expand our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met

Action 1: Expand Wastewater Plant (PAVE). ***

- Construction of improvements will continue in FY'19.

Action 2: Update collections CCTV capabilities to allow for lateral location. **

- Purchase of appropriate equipment in FY'19.

Action 3: Implement manhole I&I elimination program in the Redwood area.*

- Manholes identified for rehabilitation in FY'18 will undergo various means of rehabilitation to evaluate repair effectiveness.

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

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

Action 5: Develop a pilot plan for CIPP for pipe rehabilitation projects. *

- Evaluate various alternatives to rehabilitate failing pipe versus in kind replacement.

Action 6: Purchase a reserve pump for Darneille Pump Station.*

Purchase the appropriate pump.

Program: Utilities/Wastewater – Capital Construction

Budget Highlights:

The project listing shows resources across the columns. Columns show the “Actual resources through FY’17”; the re-assessed resource needs of projects using current data for the “Estimated FY’18” column, guiding our “Adopted FY’19” and resources estimated “Through FY’19”. 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’18 Activity Review:

- Structural sewer lines were replaced in the core of the City.
- Selection and start of implementation of an Asset Management program.
- Completion of rate study and initiation of SDC study.
- Began construction for the Phase II upgrade.

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT RESOURCES

		Actual Through FY'17	Estimated FY'18	Adopted FY'19	Total Through FY'19	Future Years	Total Project
SE0000	Miscellaneous Projects – Fund 728	2,304,156	(370,000)	(795,000)	(795,000)	70,000	2,149,156
SE4964	WRP Phase 2 Expansion	7,326,995	21,125,000	1,957,724	30,409,719	0	29,501,995
SE5080	WRP Structural Repairs	383,000	0	0	383,000	225,000	608,000
SE6012	Western Avenue Sewer Replacement	320,000	220,000	25,000	565,000	1,550,000	2,115,000
SE6112	Sewer Rate Study SE & RS	70,000	0	0	70,000	0	70,000
SE6156	Sewer Mains Related to Overlays	60,000	75,000	0	135,000	1,765,000	1,900,000
SE6198	Collection System Maintenance-Repair	475,000	175,000	275,000	925,000	350,000	1,275,000
SE6199	Pump-Lift Station Equip. Improvement Spaulding Indust. Park WW	105,000	100,000	50,000	255,000	40,000	295,000
SE6200	Infrastructure	100,000	0	0	100,000	0	100,000
SE6237	General Engineering Services	80,000	20,000	20,000	120,000	80,000	200,000
SE6238	Effluent Mixing Zone Dye Tracer Study	50,000	0	0	50,000	0	50,000
SE6239	WRP Equipment Improvement	150,000	30,000	10,000	190,000	170,000	360,000
SE6334	Public Works Asset Management	0	200,000	130,000	330,000	0	330,000
SE6335	Webster Pump Station No. 2 Rehab	0	<u>25,000</u>	<u>25,000</u>	<u>50,000</u>	<u>750,000</u>	<u>800,000</u>
	Total Projects	<u>11,424,151</u>	<u>21,600,000</u>	<u>1,697,724</u>	<u>32,787,719</u>	<u>5,000,000</u>	<u>39,754,151</u>

MISCELLANEOUS WASTEWATER FUNDS

Miscellaneous Projects - SDC Fund 722	857,664	100,800	(247,300)	561,564	2,738,992	3,450,156
Miscellaneous Projects - AFD Fund 725	<u>85,485</u>	<u>0</u>	<u>5,000</u>	<u>90,485</u>	<u>5,000</u>	<u>85,485</u>
Total Miscellaneous Funds	<u>943,149</u>	<u>100,800</u>	<u>(242,300)</u>	<u>652,049</u>	<u>2,743,992</u>	<u>3,535,641</u>

CLOSED OR CANCELLED CAPITAL PROJECT RESOURCES

SE6323	5th St. Sewer Main Structural Repairs	400,000	100,000	0	500,000	0	500,000
	Total Closed Projects	<u>400,000</u>	<u>100,000</u>	<u>0</u>	<u>500,000</u>	<u>0</u>	<u>500,000</u>
	Grand Total - All Projects	<u>12,767,300</u>	<u>21,800,800</u>	<u>1,455,424</u>	<u>33,939,768</u>	<u>7,743,992</u>	<u>43,789,792</u>

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT SUMMARIES FOR FY'19

	Adopted FY'19 Beginning Fund Balance	Adopted FY'19 Revenue	Adopted FY'19 Capital Outlay	Adopted FY'19 Transfers	Adopted FY'19 Appropriated Fund Balance
SE0000 Miscellaneous Projects - General Fund 728	982,977	(795,000)	0	0	187,977
SE4964 WRP Phase 2 Expansion	8,927,798	1,957,724	10,885,522	0	0
SE5080 WRP Structural Repairs	238,693	0	238,693	0	0
SE6012 Western Avenue Sewer Replacement	402,314	25,000	427,314	0	0
SE6112 Sewer Rate Study SE & RS	4,388	0	4,388	0	0
SE6156 Sewer Mains Related to Overlays	54,603	0	54,603	0	0
SE6198 Collection System Maintenance-Repair	30,558	275,000	305,558	0	0
SE6199 Pump-Lift Station Equipment Improvement	77,489	50,000	127,489	0	0
SE6200 Spaulding Indust. Park WW Infrastructure	95,000	0	95,000	0	0
SE6237 General Engineering Services	38,349	20,000	58,349	0	0
SE6238 Effluent Mixing Zone Dye Tracer Study	45,000	0	45,000	0	0
SE6239 WRP Equipment Improvement	130,564	10,000	140,564	0	0
SE6334 Public Works Asset Management	50,000	130,000	180,000	0	0
SE6334 Webster Pump Station No. 2 Rehab	<u>0</u>	<u>25,000</u>	<u>25,000</u>	<u>0</u>	<u>0</u>
Total Projects	<u>11,077,733</u>	<u>1,697,724</u>	<u>12,587,480</u>	<u>0</u>	<u>187,977</u>
MISCELLANEOUS WASTEWATER FUNDS					
Miscellaneous Projects - SDC Fund 722	992,961	(247,300)	0	0	745,661
Miscellaneous Projects - AFD Fund 725	<u>5,641</u>	<u>5,000</u>	<u>0</u>	<u>0</u>	<u>10,641</u>
Total Miscellaneous Funds	<u>998,602</u>	<u>(242,300)</u>	<u>0</u>	<u>0</u>	<u>756,302</u>
Grand Total - All Projects	<u>12,076,335</u>	<u>1,455,424</u>	<u>12,587,480</u>	<u>0</u>	<u>944,279</u>

Program: Utilities/Wastewater – Capital Construction

Financial Summary

	ACTUAL FY' 16 \$	ACTUAL FY' 17 \$	BUDGET FY' 18 \$	REVISED FY' 18 \$	ADOPTED FY' 19 \$	PROJECTED FY' 20 \$
Beginning Fund Balance	<u>5,578,009</u>	<u>6,721,889</u>	<u>6,735,715</u>	<u>6,735,715</u>	<u>12,076,335</u>	<u>944,279</u>
Resources						
Development Charges	658,827	573,287	444,700	444,700	448,900	448,900
Investment Interest	53,829	81,260	2,500	2,500	3,800	3,800
Advance Finance Interest	261	148	0	0	0	0
SDC Loans	5,458	4,400	4,000	4,000	0	0
General Fund	155,000	220,000	350,000	350,000	0	0
Sewer Fund	1,719,000	3,028,300	2,500,000	2,500,000	865,000	900,000
Revenue from Other Agencies	206,995	0	0	0	132,724	0
Miscellaneous Revenues	0	0	14,000,000	14,000,000	0	0
Advance Financing	<u>0</u>	<u>1,828</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>5,000</u>
<i>Total Current Revenues</i>	<u><i>2,799,370</i></u>	<u><i>3,909,223</i></u>	<u><i>17,301,200</i></u>	<u><i>17,301,200</i></u>	<u><i>1,455,424</i></u>	<u><i>1,357,700</i></u>
Total Resources	<u>8,377,379</u>	<u>10,631,112</u>	<u>24,036,915</u>	<u>24,036,915</u>	<u>13,531,759</u>	<u>2,301,979</u>
Requirements						
Capital Outlay	<u>1,655,490</u>	<u>3,576,987</u>	<u>23,111,106</u>	<u>23,111,106</u>	<u>12,587,480</u>	<u>1,425,000</u>
<i>Subtotal Expenditures</i>	<u><i>1,655,490</i></u>	<u><i>3,576,987</i></u>	<u><i>23,111,106</i></u>	<u><i>23,111,106</i></u>	<u><i>12,587,480</i></u>	<u><i>1,425,000</i></u>
Appropriated Fund Balance	<u>6,721,889</u>	<u>7,054,125</u>	<u>925,809</u>	<u>925,809</u>	<u>944,279</u>	<u>876,979</u>
Total Requirements	<u>8,377,379</u>	<u>10,631,112</u>	<u>24,036,915</u>	<u>24,036,915</u>	<u>13,531,759</u>	<u>2,301,979</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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Ops Fund Transfers	16,787,976	2,400,000	2,400,000	780,000	19,967,976	900,000	3,500,000	24,367,976
Wastewater Capital & SDC's to Projects	(21,545,896)	(2,770,000)	(2,770,000)	(1,575,000)	(25,890,896)	(950,000)	(3,380,000)	(30,220,896)
Advance Finance	745,988				745,988			745,988
Investment Interest	2,384,887				2,384,887			2,384,887
Wastewater & RSSSD SDC's	2,522,898				2,522,898			2,522,898
Other/ETO FY'16	1,408,303				1,408,303			1,408,303
Total Resources					1,139,156			1,209,156

Requirements

Expenditures	454,780				454,780			454,780
Transfers/Contingency	494,891				494,891			494,891
Ending Balance by Year	1,354,485		984,485	189,485	189,485	139,485	259,485	259,485
Total Requirements					949,671			949,671

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 WRP 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: \$30,400,000 (Revised from \$9,970,000 to reflect current costs and needs)

Resources

	Actual Through FY'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	5,390,000	1,250,000	2,125,000	1,125,000	8,640,000			8,640,000
Wastewater SDC's	1,730,000	500,000	500,000	700,000	2,930,000			2,930,000
Loan / ETO FY'16	206,995			132,724	339,719			339,719
Wastewater Bond	0	14,000,000	18,500,000		18,500,000			18,500,000
Total Resources					30,409,719			30,409,719

Requirements

Expenditures	4,024,197	19,304,782	15,500,000	10,885,522	30,409,719			30,409,719
Transfers/Contingency					0			0
Ending Balance by Year	3,302,798		8,927,798	0	0	0	0	0
Total Requirements					30,409,719			30,409,719

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, clarifier launder troughs, etc. 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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	383,000	75,000	0	0	383,000	0	225,000	608,000
Total Resources					383,000			608,000

Requirements

Expenditures	94,308	333,689	50,000	238,692	383,000	0	225,000	608,000
Transfers/ Contingency					0			0
Ending Balance by Year	288,692		238,692	0	0	0	0	0
Total Requirements					383,000			608,000

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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects		420,000	20,000	25,000	45,000	750,000	200,000	995,000
Wastewater SDC's	235,000		(150,000)		85,000	400,000	200,000	685,000
General Fund - Policy & Legislation	85,000	350,000	350,000		435,000			435,000
Total Resources					565,000			2,115,000

Requirements

Expenditures	37,686	1,589,879	100,000	427,314	565,000	1,150,000	400,000	2,115,000
Transfers/Contingency					0			0
Ending Balance by Year	282,314		402,314	0	0	0	0	0
Total Requirements					565,000			2,115,000

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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	70,000				70,000			70,000
Total Resources					70,000			70,000

Requirements

Expenditures	30,612	25,000	35,000	4,388	70,000			70,000
Transfers/Contingency					0			0
Ending Balance by Year	39,388		4,388	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. This project will also effect wastewater spot repairs identified during street 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:

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

Resources

	Actual Through FY'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	(75,000)		75,000		0		1,765,000	1,765,000
General Fund - Policy & Legislation	135,000				135,000			135,000
Total Resources					135,000			1,900,000

Requirements

Expenditures	55,397	96,446	25,000	54,603	135,000		1,765,000	1,900,000
Transfers/Contingency					0			0
Ending Balance by Year	4,603		54,603	0	0	0	0	0
Total Requirements					135,000			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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	475,000	175,000	175,000	275,000	925,000	125,000	225,000	1,275,000
Wastewater SDC's					0			0
Total Resources					925,000			1,275,000

Requirements

Expenditures	319,441	220,085	300,000	305,559	925,000	125,000	225,000	1,275,000
Transfers/Contingency					0			0
Ending Balance by Year	155,559		30,559	0	0	0	0	0
Total Requirements					925,000			1,275,000

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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	105,000	100,000	100,000	50,000	255,000	10,000	30,000	295,000
Wastewater SDC's					0			0
Total Resources					255,000			295,000

Requirements

Expenditures	57,511	126,075	70,000	127,489	255,000	10,000	30,000	295,000
Transfers/ Contingency					0			0
Ending Balance by Year	47,489		77,489	0	0	0	0	0
Total Requirements					255,000			295,000

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

Requirements

Expenditures	0	95,000	5,000	95,000	100,000			100,000
Transfers/Contingency					0			0
Ending Balance by Year	100,000		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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	80,000	20,000	20,000	20,000	120,000	20,000	60,000	200,000
Wastewater SDC's					0			0
Total Resources					120,000			200,000

Requirements

Expenditures	41,651	44,589	20,000	58,349	120,000	20,000	60,000	200,000
Transfers/Contingency					0			0
Ending Balance by Year	38,349		38,349	0	0	0	0	0
Total Requirements					120,000			200,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6238	Effluent Mixing Zone Dye Tracer Study
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Project Description:

The Wastewater Treatment 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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	50,000				50,000			50,000
Wastewater SDC's					0			0
Total Resources					50,000			50,000

Requirements

Expenditures	0	50,000	5,000	45,000	50,000			50,000
Transfers/ Contingency					0			0
Ending Balance by Year	50,000		45,000	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, small heat exchangers, various pumps, valves, 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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	150,000	30,000	30,000	10,000	190,000	20,000	150,000	360,000
Wastewater SDC's					0			0
Total Resources					190,000			360,000

Requirements

Expenditures	14,436	100,561	35,000	140,564	190,000	20,000	150,000	360,000
Transfers/Contingency					0			0
Ending Balance by Year	135,564		130,564	0	0	0	0	0
Total Requirements					190,000			360,000

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 water treatment plant replacement project.

Council Strategic Goal

Provide Cooperative, Shared Leadership Involving Council, Staff and Community

Objective 3: Ensure efficiency and effectiveness in City operations.

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: \$330,000 revised after proposals from \$200,000

Resources

	Actual Through FY'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects		100,000	100,000	45,000	145,000			145,000
Water Ops		100,000	100,000	45,000	145,000			145,000
Gas Tax				40,000	40,000			40,000
Total Resources					330,000			330,000

Requirements

Expenditures		200,000	150,000	180,000	330,000			330,000
Transfers/Contingency					0			0
Ending Balance by Year	0		50,000	0	0	0	0	0
Total Requirements					330,000			330,000

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). Prior to the predesign effort, upgraded communication and portable generator power will be provided.

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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects		200,000	25,000	25,000	50,000	25,000	400,000	475,000
Total Resources					50,000			475,000

Requirements

Expenditures		200,000	25,000	25,000	50,000	25,000	400,000	475,000
Transfers/Contingency					0			0
Ending Balance by Year	0		0	0	0	0	0	0
Total Requirements					50,000			475,000

Project Closed – FY 2018

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'17	FY'18 Adopted	FY'18 Estimated	FY'19 Adopted	Through FY'19	FY'20 Projected	Future	Total Projects
Wastewater Capital Projects	400,000	400,000	100,000	0	500,000			500,000
Total Resources					500,000			500,000

Requirements

Expenditures	41,409	725,000	458,591	0	500,000			500,000
Transfers/ Contingency					0			0
Ending Balance by Year	358,591		0	0	0	0	0	0
Total Requirements					500,000			500,000