

CITY OF MADISON

2018 OPERATING BUDGET

Agency Request

Agency: 83 - SEWER

Budget by Service (All Funds)

	2017 Budget	2018 Request	Change
Revenue			
SEWER ENGINEERING AND ADMIN	(11,889,896)	(11,453,583)	436,313
SEWER OPERATIONS	(25,416,970)	(26,809,547)	(1,392,577)
Total Revenue	(37,306,866)	(38,263,130)	(956,264)
Expense			
SEWER ENGINEERING AND ADMIN	11,642,208	11,453,583	(188,625)
SEWER OPERATIONS	25,664,658	26,809,547	1,144,889
Total Expense	37,306,866	38,263,130	956,264
Net GF Budget	\$ -	\$ -	-

Fund: 2110 - SEWER UTILITY

	2017 Budget	2018 Request	Change
Revenue			
INTERGOV REVENUES	(133,910)	(123,030)	10,880
CHARGES FOR SERVICES	(35,779,490)	(37,012,410)	(1,232,920)
LICENSES AND PERMITS	(21,100)	(21,400)	(300)
FINE FORFEITURE ASMT	(620,000)	(620,000)	-
INVEST OTHER CONTRIB	(344,700)	(380,000)	(35,300)
MISC REVENUE	(3,320)	(1,290)	2,030
OTHER FINANCE SOURCE	(404,346)	(105,000)	299,346
Total Revenue	(37,306,866)	(38,263,130)	(956,264)
Expense			
SALARIES	3,009,761	3,209,060	199,299
BENEFITS	1,235,806	1,589,456	353,650
SUPPLIES	474,600	488,000	13,400
PURCHASED SERVICES	22,694,295	23,752,790	1,058,495
DEBT OTHR FINANCING	7,170,108	5,878,762	(1,291,346)
INTER DEPART CHARGES	3,052,296	2,965,062	(87,234)
INTER DEPART BILLING	(380,000)	(380,000)	-
TRANSFER OUT	50,000	760,000	710,000
Total Expense	37,306,866	38,263,130	956,264
Net GF Budget	\$ -	\$ -	-

Position Summary by FTE

	2017 Budget	2018 Request	Change
ENGR FIELD AIDE	1.00	1.00	-
ENGR OPER CLK	1.00	1.00	-
STR SEWER MACH OPR 1	12.00	12.00	-
STR SEWER MACH OPR 2	2.00	2.00	-
STR SEWER MACH OPR 3	1.00	1.00	-
SURVEYOR 1	1.00	1.00	-
S/D MAINT TECH 2	10.00	10.00	-
ENGR OPER LDWKR 3	1.00	1.00	-
ENGINEER 2	1.00	1.00	-
ENGINEER 4	1.00	1.00	-
PUB WKS GEN FORE	2.00	2.00	-
PUB WKS GEN SUPV	1.00	1.00	-
IT SPEC 3	1.00	1.00	-
PROGRAM ASST 2 - CG20	1.00	1.00	-
TOTAL	36.00	36.00	-



Department of Public Works
Engineering Division
Robert F. Phillips, P.E., City Engineer

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Assistant City Engineer
Michael R. Dailey, P.E.

Principal Engineer 2
Gregory T. Fries, P.E.
Christopher J. Petykowski, P.E.

Principal Engineer 1
Christina M. Bachmann, P.E.
Eric L. Dundee, P.E.
John S. Fahrney, P.E.

Facilities & Sustainability
Jeanne E. Hoffman, Manager

Operations Manager
Kathleen M. Cryan

Mapping Section Manager
Eric T. Pederson, P.S.

Financial Manager
Steven B. Danner-Rivers

July 12, 2017

To: Dave Schmiedicke, Finance Director

From: Robert F. Phillips, City Engineer

Subject: Engineering Division's 2018 Sewer Utility Budget

The Engineering Division is pleased to submit our 2018 operating budget for the Sewer Utility, a utility funded entirely through user fees.

The primary objective of the City of Madison's Sewer Utility is to safely convey wastewater to the Nine Springs Wastewater Treatment Plant. This requires a combination of design, construction and maintenance of our system of sewers and lift stations. Through our activities, infiltration is reduced, pipes in poor condition are repaired or replaced, pipes are cleaned on a regular schedule and problematic sections of pipes are maintained more frequently. The result has been a reliable system with a record low number of sewer backups.

In addition to the routine activities associated with running the Sewer Utility, specific 2018 initiatives include implementing the recently adopted restaurant class sewer billing category. The composition of effluent from restaurants contains levels of organic materials, nutrients, and bacteria significantly higher than that of residential sewage, which costs more to treat at the wastewater treatment plant. Those costs are not distributed uniformly or fairly. Residential customers in effect, subsidize the rates charged to most food preparation businesses. The restaurant sewer class rate will result in a more equitable rate structure. Additional 2018 initiatives include developing a plan to perform condition ratings on sanitary sewers over a 10-year cycle, and implementing a Computerized Maintenance Management System (CMMS).

A Sewer Utility rate increase of approximately 3% is expected due to both an increased in debt service, and an increase in sewage treatment charges which are passed through from the Madison Metropolitan Sewage District.

If you have any questions, please feel free to contact Steve Danner-Rivers or myself.

Sincerely,

Robert F. Phillips, P.E.
City Engineer

RFP:

cc: Travis Martin

2018 Operating Budget: Service Proposals

SERVICE IDENTIFYING INFORMATION

SELECT YOUR AGENCY:

Sewer Utility

SELECT YOUR AGENCY'S SERVICE:

Sewer Engineering and Administration

SERVICE DESCRIPTION:

This service is responsible for: (1) the inspection, design, evaluation, and construction of sewer collection system, (2) reviewing and inspecting permits related to sanitary sewer system excavation and plugging. The goal of this service is to centrally plan and monitor the City's sewer system.

SERVICE GOALS

What community need does the service address?

Convey wastewater to the Nine Springs Wastewater Treatment Plant with minimum inflow, infiltration and exfiltration to prevent public health hazards and protect the environment.

Who are the recipients of the service?

- Madison Sewer Utility ratepayers
- Residents
- Businesses and their employees and customers
- Visitors to our City

What outcomes will be produced at the proposed funding level?

- Comply with regulatory requirements.
- Maintain the current level of service to customers.
- Design, construct and inspect sewers to provide adequate capacity to convey all peak design flows.
- Expand sanitary sewer system as necessary to accommodate the growth of the City minimizing the cost to current City residents.
- Provide adequate capacity to convey all peak design flows.
- Protect municipal investment by increasing the useful life and capacities of the system and parts.
- Use operating funds efficiently.

What strategies are planned for 2018 to advance the stated outcomes?

- Rehabilitate and replace system assets in a planned manner based on condition to assure assets function as designed.
- Coordinate sewer replacements with street reconstruction and resurfacing projects to maximum extent feasible.
- Use trenchless CIPP technology to rehabilitate existing sewers where feasible to reduce cost and minimize disruption to residents, businesses and visitors.
- Expansion of services funded by developers and sewer impact fee districts.
- Perform cost/benefit analysis for development and implementation of a flow model.
- Review and enhance written construction inspection standards for sanitary sewer installation and develop checklists for same.
- Refine and adopt a written asset management plan.
- Work towards eliminating existing infrastructure deficit and develop plan for funding future replacement and rehabilitation of assets with particular attention to projected peaks.

2018 Operating Budget: Service Proposals

SERVICE IDENTIFYING INFORMATION

SELECT YOUR AGENCY:

Sewer Utility

SELECT YOUR AGENCY'S SERVICE:

Sewer Operations

SERVICE DESCRIPTION:

This service is responsible for the City's sanitary collection system operation and maintenance for the 770 miles of sanitary sewer mains. The goal of the service is to effectively maintain, repair, rehabilitate, and construct the sewer system infrastructure.

SERVICE GOALS

What community need does the service address?

Convey wastewater to the Nine Springs Wastewater Treatment Plant with minimum inflow, infiltration and exfiltration to prevent public health hazards and protect the environment.

Who are the recipients of the service?

- Madison Sewer Utility ratepayers
- Residents
- Businesses and their employees and customers
- Visitors to our City

What outcomes will be produced at the proposed funding level?

- Comply with regulatory requirements.
- Eliminate preventable sanitary sewer overflows and basement backups.
- Reduce inconvenience and damage by responsibly handling service interruptions.
- Eliminate claims and legal fees related to back up by providing immediate, concerned and efficient service to all emergency calls.
- Protect municipal investment by increasing the useful life and capacities of the system and parts.
- Use operating funds efficiently.
- Perform all activities safely and avoid injury.

What strategies are planned for 2018 to advance the stated outcomes?

- Continue scheduled preventive maintenance cleaning of existing sewer lines. Add newly constructed sewer mains to this program.
- Continue replacement of pin-type lids to reduce I&I.
- Perform open-cut and trenchless repairs as needed to maintain system functionality.
- Implement a GIS-centric Computerized Maintenance Management System (CMMS) with paperless work orders for field crews;
- Develop a plan for scheduled CCTV inspection and condition assessment of entire system on a 10-year cycle.
- Assign a criticality rating to each asset; conduct a formal business risk assessment.
- Identify means of maintaining and assessing condition of existing force mains.
- Install dedicated emergency generators at prioritized lift stations.