

Industrial Waste & Pollution Prevention Section Information

The Industrial Waste & Pollution Prevention (IWPP) Section regulates and monitors industrial discharges to the sewer system to ensure compliance with local and federal regulations. The IWPP Section also responds to sewer-related spills and community sewer problems. These functions protect MCES and community collection/treatment facilities, process efficiency, operating personnel, and the environment.

IWPP Section staff issue Industrial Discharge Permits to industrial users of the Metropolitan Disposal System (public sanitary sewers). Permittees are required to conduct self-monitoring of their wastewater discharge and submit reports to the IWPP Section on a routine basis. These reports are one means of determining compliance with the MCES Waste Discharge Rules. Compliance determinations are also made through monitoring by the IWPP Section. The samples obtained are analyzed by the MCES Laboratory Services Section.

2019 Permit Information (as of 3/18/2019):

895	Permitted Industrial Users
224	Significant Industrial Users (SIUs)
7	Non-Significant Categorical Industrial Users (NSCIUs)
212	SIUs subject to Categorical Pretreatment Standards
87	Liquid Waste Haulers
98	Groundwater and Leachate Discharge permits
198	General Industrial Discharge permits

2018 Compliance/Enforcement Activities (as of 3/18/2019):

1614	Routine self-monitoring reports received
63	Notices of Violation (NOVs) issued to 57 different users
1	Industrial User listed in a public notice for Significant Non-Compliance
1	Industrial User on Stipulation Agreement
2	Orders to Appear issued

MCES INDUSTRIAL WASTE RATES AND FEES



MCES protects public health and the environment

Metropolitan Council Environmental Services (MCES) operates the Metropolitan Disposal System (regional wastewater collection and treatment system), serving 109 communities, 2.6 million people, and approximately 860 regulated industrial dischargers in the seven-county metro area. The system includes:

- More than 600 miles of regional interceptor sewers that collect wastewater from more than 5,000 miles of locally owned sewers.
- 8 regional wastewater treatment plants.
- 61 lift stations to pump the wastewater as needed.
- 206 metering stations to measure wastewater flow.

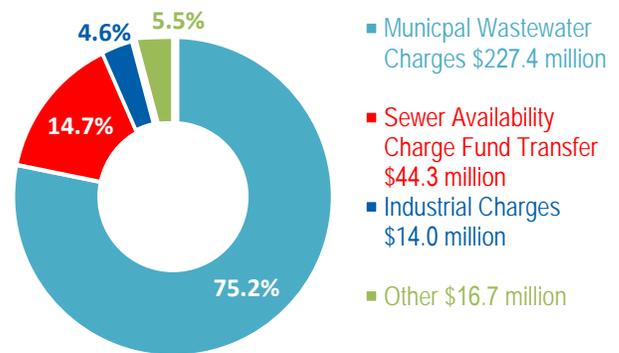
What is the role of MCES's Industrial Waste and Pollution Prevention Section?

We regulate and monitor industrial dischargers to the Metropolitan Disposal System to ensure compliance with local and federal regulations. We also respond to sanitary sewer-related spills and community sewer problems. Our work protects MCES and community wastewater collection and treatment facilities, process efficiency, operating personnel, and the environment.

Industrial Waste rates and fees

MCES sets rates and fees to cover our regulatory and monitoring costs and the operation and maintenance costs attributed to industrial discharges to the system. We anticipate that industrial charges will account for approximately \$14.0 million (4.6%) of our 2019 total revenue. The 2019 strength charge rates will reflect the increase in our costs from 2018 to 2019, along with the sixth year of a eight-year phase-in of debt service costs for MCES capital improvements attributed to industrial discharges.

MCES Wastewater Revenue, 2019



2019 (Current) Rates

Strength Charge (on-site connection, per pound of excess TSS):	\$0.243
Strength Charge (on-site connection, per pound of excess COD):	\$0.1215
Industrial Load Charge (permitted waste hauler, per pound of excess TSS):	\$0.413*
Industrial Load Charge (permitted waste hauler, per pound of excess COD):	\$0.2065*
Standard (septage) Load Charge (per 1,000 gallons):	\$60.24
Portable Toilet Waste Load Charge (per 1,000 gallons):	\$77.46
Holding Tank Load Charge (per 1,000 gallons):	\$11.10
Collar County (septage) Load Charge (per 1,000 gallons):	\$75.24
Production-Based Strength Charge:	\$0.762
(Microbrewery/Brewpub general permits, per barrel of beer produced)	
Sewer Availability Charge (SAC) (per unit):	\$2,485
Temporary Capacity Charge (per 1,000 gallons):	\$1.25
Industrial Capacity Charge (per 1,000 gallons):	\$2.10

* Plus \$15 per 1,000 gallons for out-of-region haulers.

2019 (Current) Permit Fees

Standard Permit Fees

(SIU = Significant Industrial User; NSCIU = Non-Significant Categorical Industrial User; MGY=Million Gallons per Year)

Quarterly Reporter

SIU > 50 MGY	\$10,000
SIU < 50 MGY	\$8,350

Semi-Annual Reporter

SIU >10 MGY	\$6,625
SIU 5-10 MGY	\$5,025
SIU 2-5 MGY	\$3,275
SIU < 2 MGY	\$1,675
Non-SIU	\$1,675

Annual Reporter

Non-SIU > 1 MGY	\$1,675
Non-SIU < 1 MGY	\$1,025
NSCIU	\$1,025
General	\$475

Liquid Waste Hauler Permit Fees

> 1 MGY	\$1,675
< 1 MGY	\$1,025

Special Discharge Permit Fees

Quarterly Reporter	\$1,675
Contingency/Low Impact	\$1,075

Special Short-Term Request Fees

In Region	\$150
Out of Region	\$300

What is influencing MCES's budget and annual increases?

Our biggest budget driver is debt service, which accounts for 46% of the budget. We continue to pay off bonds that financed wastewater system upgrades and capacity improvements over the last 20 years. Moving forward, we will invest approximately 90% of the current capital improvement program in asset preservation, primarily to address aging infrastructure in the wastewater collection system and the treatment plants.

We take a comprehensive approach to evaluate the condition of the system, and a purposeful, rational plan over multiple years to rehabilitate or replace the most deteriorated facilities first. This long-range planning is aimed at maintaining consistent and predictable wastewater rates, so communities and industrial dischargers can plan for their share of costs. While debt service, labor, and operation and maintenance costs continue putting pressure on the budget, MCES remains a national model among large regional wastewater systems. Our rates are well below the national average for agencies that treat more than 100 million gallons per day.

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Contact Us

Industrial Waste & Pollution Prevention (IWPP)

Liquid Waste Hauler Permit Engineers

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Questions about Online Reporting – Contact our Support Team

Available Monday through Friday 8:00 AM – 4:00 PM
Phone: (651) 602-4789
Email: MCESIndustrialOnlineReporting@metc.state.mn.us

Additional Contact Information

IWPP Assistant Manager – Bob Golden
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Main Office Phone: (651) 602-4703
Office Fax: (651) 602-4730
Website: <http://metro council.org/Wastewater-Water/Services/Industrial-Waste.aspx>

Stay Connected

To make sure you receive important notifications and information, add the following email to your address book: METC@public.govdelivery.com.

Welcome to the MCES Industrial Online Reporting System

****As of February 1, 2019, all facilities must submit their self-monitoring reports and permit renewal applications to MCES using the MCES Industrial Online Reporting System.***

The MCES Industrial Online Reporting System (IORS) offers the convenience of submitting paper self-monitoring reports and permit renewal applications to Industrial Waste & Pollution Prevention staff in our online system. Online Reporting is fast, efficient and convenient, and is less burdensome for everyone. Our system complies with EPA guidelines established in its electronic reporting rule, CROMERR (Cross-Media Electronic Reporting Rule). Specifically, our system offers the following functionality:

- Easily manage your upcoming submittal obligations in a dashboard
- Submitting permit renewal applications
- Submitting Reporting Period Information and Sampling Results SMRs
- Submitting Liquid Waste Hauler SMRs
- Submitting Annual Statements for the Dental Amalgam Recovery Program
- Monitoring the status of your online submittals
- Receiving e-mail notifications regarding the acceptance status of your online submittals
- Tracking historical versions of all online submittals

How Do I Enroll?

Facilities holding an MCES Standard, General or Special Discharge Permit and Dental Clinics participating in the Amalgam Recovery Program can enroll in Online Reporting. Follow these steps to enroll:

1. Create a user account using the Account Registration Instructions
2. Complete the Facility Account Registration Form
3. Sign the Electronic Signature Agreement by all Responsible Officials and mail completed form to MCES: 455 Etna Street North, Suite 27, St. Paul, MN 55106

Customer Assistance is Available

For more information on the Industrial Waste & Pollution Prevention Section, or to access training documents and videos, please visit our website:

<http://www.metrocouncil.org/Wastewater-Water/Services/Industrial-Waste.aspx>

Please contact our support team if you have questions regarding Online Reporting. Our support team is available Monday through Friday, 8 AM – 4 PM.

Email: MCESIndustrialOnlineReporting@metc.state.mn.us
Phone: (651) 602-4789

Hauled Liquid Waste Types and Descriptions

MCES regulates septage and other hauled liquid waste discharged to the Metropolitan Disposal System (MDS) at approved MCES disposal sites. All loads of hauled liquid waste discharged into the MDS under the provisions of the MCES Septage Management Program are categorized below. Please be aware that although MCES currently accepts the types of hauled liquid waste describe below, MCES reserves the right to refuse any material that is found to be different from that which has been pre-approved or specifically approved for acceptance under this program or when deemed necessary due to operational issues at an approved Liquid Waste Receiving (LWR) facility or MCES Wastewater Treatment Plant.

Domestic Waste

- Domestic Septage – Domestic sewage pumped from a residential septic tank with a drain field
- Domestic Holding Tank Waste – Domestic waste pumped from a sealed tank with no drain field

Commercial Waste

Commercial waste is defined as a non-industrial waste hauled from a business or service establishment and is limited to the following:

- **Portable Toilet Waste**
- **Restaurant Grease Traps**
- **Flammable Waste Trap Wastewater** – Petroleum products and their derivatives are prohibited for discharge to the sanitary sewer system as per Section 406.00 of the Waste Discharge Rules. Therefore, all floating oil shall be removed prior to pumping the trap. The service station and/or business owner shall remove the petroleum layer either by pumping it off and collecting it for recycling, or by using absorbent pads to remove the thin layer of oil present on the surface of the water.
- **Sand Trap Wastewater** – Haulers shall make every effort possible to minimize the amount of sand, grit, and sludge discharged at MCES approved disposal sites. All such material remaining in the hauler's truck, after discharge, shall be disposed of in an appropriate manner as a solid waste.
- **Commercial Holding Tank Waste** – Wastewater from a commercial establishment that includes all wastewater generated on site.

Industrial Waste

All loads which do not meet the definition of domestic or commercial waste as defined above are considered industrial waste loads under the Septage Management Program and must be sampled, analyzed, and approved by MCES through an approval letter process prior to transport and disposal. Industrial waste as it applies to the MCES Septage Management Program is defined as one of the following:

- **Industrial Waste** – Liquid waste resulting from an industrial or manufacturing process. This includes, but it not limited to food wastes from food product manufacturing companies, dairy wastes, and waste from all process sumps within an industrial facility including those in vehicle maintenance areas where process waste and flammable waste trap wastewater are combined.
- **Landfill Leachate** – Wastewater resulting from the percolation of rainwater and/or internal liquids through the deposited material in a solid waste disposal facility. This waste category includes landfill gas condensate, which results when landfill gas cools in the gas collection system and forms a liquid waste.
- **Groundwater and Surface Water unsuitable for discharge to receiving waters** – Contaminated groundwater is defined as polluted water pumped from soil, aquifers or underground tanks, as part of a remedial or dewatering action. Contaminated Surface Water is defined as polluted water from lakes, streams, and ponds, as well as contaminated runoff water.

Many industrial wastes are not suitable for discharge through the Septage Management Program. Included are the wastes that exceed MCES discharge limits and/or any prohibited wastes listed in MCES Waste Discharge Rules and all wastes defined as hazardous under Minnesota Rules Chapter 7045. All approved industrial waste loads shall be disposed of at

the Metropolitan Wastewater Treatment Plant LWR disposal site in St. Paul, unless noted otherwise on the written approval letter issued by MCES.

Note: If the industry (i.e., Responsible Party) does not have a valid letter from MCES indicating that the Industrial Waste can be hauled and disposed of, the hauler or industry representative is required to contact MCES to begin the approval process.

Out of Service Area (OSA) Domestic and Commercial Waste

MCES currently accepts standard Domestic Septage, Domestic Holding Tank Waste, and Portable Toilet Waste from the following counties adjacent to the seven-county metropolitan area: Chisago, Isanti, Sherburne, Wright, McLeod, Sibley, Nicollet, LeSueur, Rice, Goodhue, Polk, St. Croix, and Pierce. MCES also accepts restaurant and other food service establishment Grease Trap Waste from outside the metropolitan area without any restrictions regarding source location.

Out of Service Area (OSA) Industrial Waste

MCES accepts hauled Industrial Waste from outside the seven-county metropolitan area. This review process takes longer than approval for industrial loads within the service area and requires an upfront non-refundable application fee. Additional information is also required on alternative disposal methods, closer to the source of the waste. Sample results must be submitted and must meet MCES WDR limits. Loading and possible impact on MCES's wastewater treatment plant is also considered.

Note: Flammable waste traps and sand traps from outside the seven-county metropolitan area are treated as OSA Industrial Waste and must follow the same procedure stated above.

MCES Liquid Waste Receiving Facilities

MCES maintains four Liquid Waste Receiving (LWR) Facilities. All hauled liquid waste to be disposed of into the Metropolitan Disposal System (MDS) must be discharged at one of these facilities. The facility information is listed in the table below along with the types of waste that are accepted. Before a hauler can discharge liquid waste to the MDS, the hauler must first obtain a permit from MCES.

[Service Area and Facility Map](#)
[Waste Types and Descriptions](#)

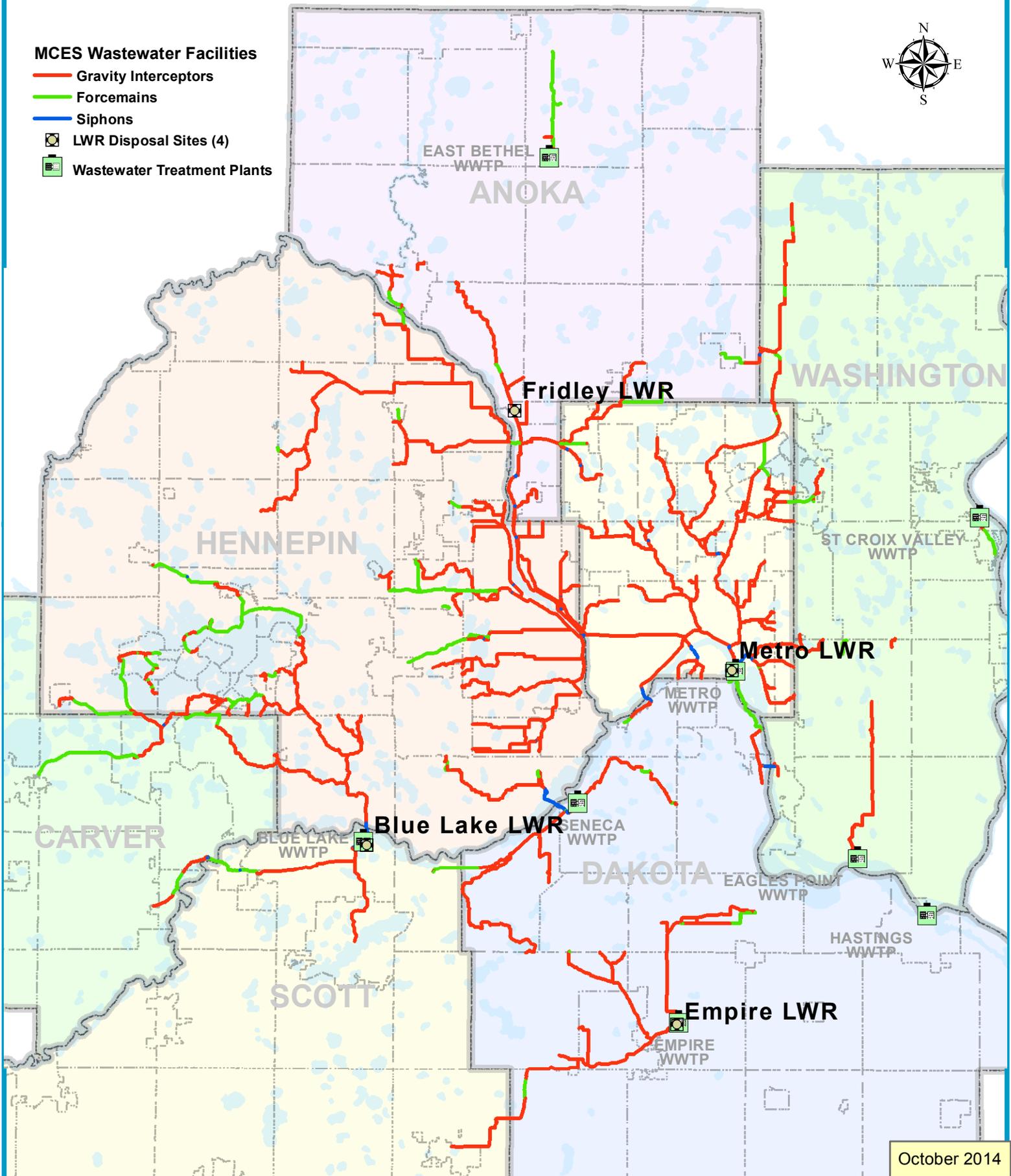
LWR Site	Location	Hours	Waste Type Accepted				
			Industrial	Commercial	Portable Toilet Waste	Domestic	Holding Tank
Metro WWTP	2400 Childs Road St. Paul, MN 55106	24-hours 7 days per week	X	X	X	X	X
Blue Lake WWTP	6957 County Rd 101 E Shakopee, MN 55379	24-hours 7 days per week		X	X	X	X
Empire WWTP	2540 West 197 th St. Farmington, MN 55024	M-F 6am - 6pm Sat 6am - 4pm			X	X	X
Fridley	8296 Hickory St NE Fridley, MN 55432	April to Mid-November: M-F 7:30am – 5:30pm Sat 8am – 12pm Closed Sundays and Holidays Mid-November to April: M-F 8am – 4:30pm Closed Weekends and Holidays			X	X	X

Liquid Waste Receiving (LWR) Facility Location Map

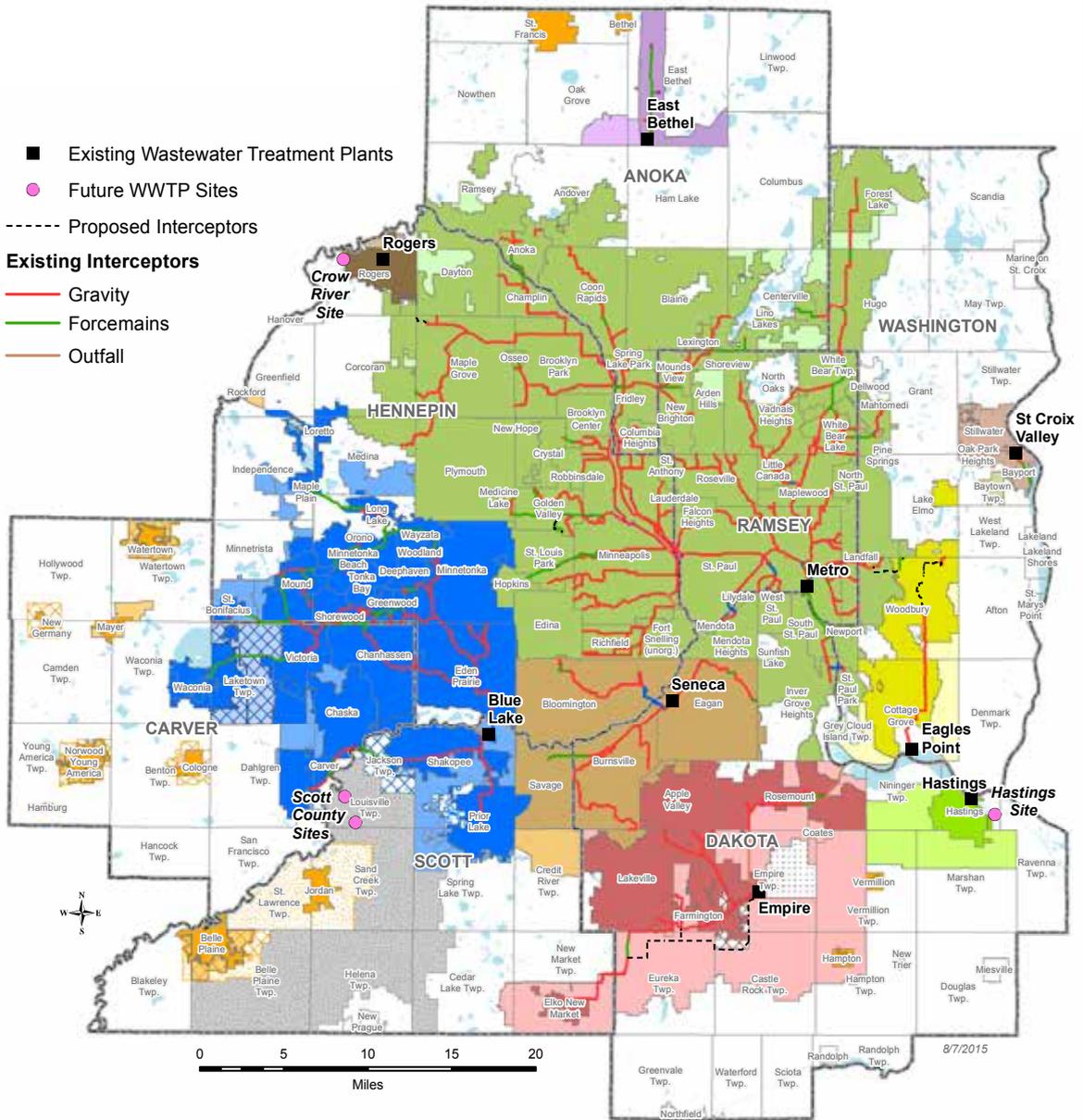


MCES Wastewater Facilities

- Gravity Interceptors
- Forcemains
- Siphons
-  LWR Disposal Sites (4)
-  Wastewater Treatment Plants



Long-Term Service Areas of the Regional Wastewater System



Long-Term Service Areas



WASTEWATER TREATMENT PLANTS

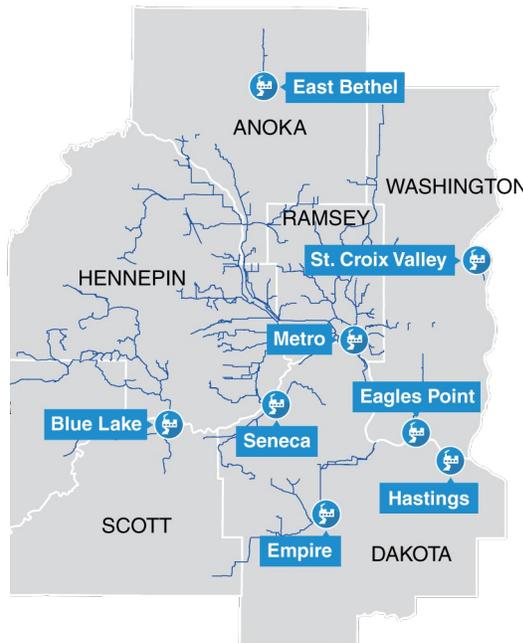
What does MCES do?

- Protect public health and the environment** through reliable and effective wastewater conveyance and treatment.
- Foster economic growth in the region** by maintaining low service rates through efficient operations and smart planning.
- Collaboratively engage with our customers, stakeholders and partners** to provide excellent wastewater conveyance and treatment services.

Our wastewater infrastructure

- 8 wastewater treatment plants**
- 610 miles of conveyance pipe and associated pump stations, meter stations, meter stations, and rain gauges.**

MCES Central Office
 390 Robert St. N.
 St. Paul, MN 55101
 651.602.1000
 metrocouncil.org



TREATMENT PLANT	POPULATION SERVED	mgd = million gallons per day
Metro (175 mgd)	1,800,000	
Blue Lake (26 mgd)	300,000	
Seneca (24 mgd)	150,000	
Empire (10 mgd)	130,000	
Eagle's Point (5 mgd)	70,000	
St. Croix Valley (3 mgd)	30,000	
Hastings (2 mgd)	25,000	
East Bethel (<1 mgd)	<10,000	

Who is MCES?

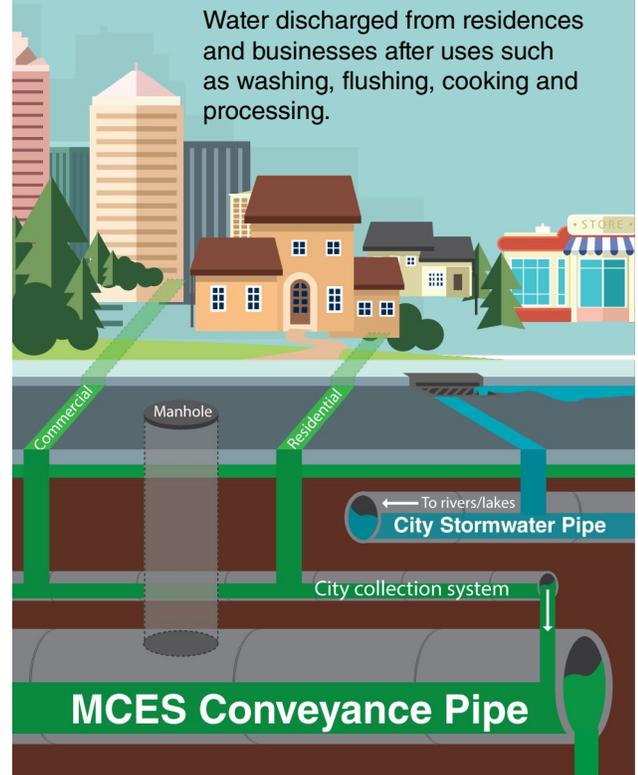
OUR CUSTOMERS

110 communities in the 7 country Metro Area
2.6 million population served
250 million gallons per day (mgd) of wastewater conveyed and treated

OUR ORGANIZATION

600+ employees
\$7 billion in valued assets

What is wastewater?



How does MCES select our wastewater treatment plant projects?

CUSTOMER LEVEL OF SERVICE



Customer Service

- Minimize odor, traffic, noise and visual impact
- Coordinate work with other governmental units
- Meet capacity needs



Health, Safety, & Environment

- Preserve environmental resources for future generations
- Comply with environmental regulations
- Convey and treat wastewater safely with minimum backups, spills, and traffic impacts



Financial Responsibility

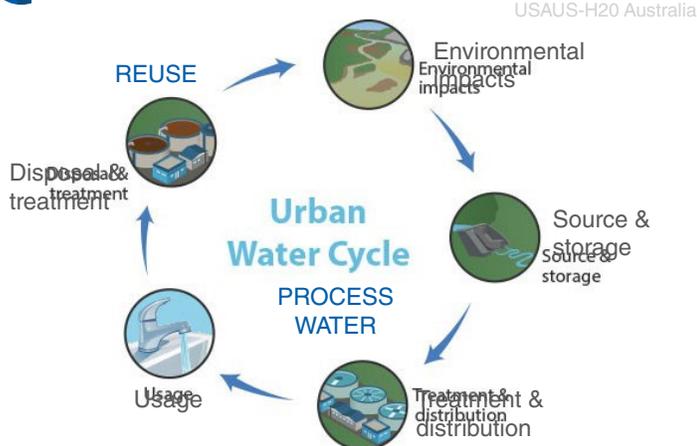
- Responsibly manage wastewater infrastructure
- Optimize operations to save costs
- Maintain fair, equitable, and transparent service fees

PERFORMANCE



MCES monitors performance and implements improvements necessary to maintain efficient and effective treatment.

WATER CONSERVATION



MCES conserves water by reusing over 17 million gallons of treated wastewater per day for cooling and other operational needs - enough water to supply 94,000 homes.

PHYSICAL CONDITION



MCES performs condition assessments to determine when it is the right time to replace infrastructure and equipment.

ENERGY CONSERVATION

MCES used 27% less energy at treatment plants in 2016 than in 1998.



303 billion BTU/year



Heat & electricity for 2,475 households/year

MCES practices energy conservation and recovery by generating significant portions of our electricity and heat from solids collected at the treatment plants and using high efficiency equipment and lighting at our facilities.

RESOURCE RECOVERY



MCES seeks to beneficially use nutrients contained in wastewater solids.

- Biosolids processed at the Blue Lake Plant contain nitrogen and phosphorous and are used to make commercial fertilizer pellets (distributed by New England Fertilizer Co.)
- Biosolids processed at the Empire Plant contain nitrogen, phosphorus, and carbon and are used as an agricultural soil amendment (land-applied by MCES).

ENVIRONMENTAL SERVICES FACTS



A national leader in environmental protection

Clean water and a clean environment are essential to a healthy life, and the Metropolitan Council is committed to both. Our Environmental Services division is nationally renowned for its superior work treating wastewater, monitoring water and air quality, and planning to ensure a long-range water supply to meet future demand.

We consistently achieve outstanding compliance with federal and state clean water discharge standards. At the same time, our rates are 41% below the national average for large agencies that treat more than 100 million gallons of wastewater per day.

We lead on sustainability. In the last decade, our efforts to conserve and recover energy have yielded an annual savings of more than \$3.5 million for our customers.

Council protects water quality, public health

The Council collects and treats wastewater from 2.7 million residents in the seven-county Twin Cities area. We also conduct research related to surface water quality and water supply, and provide technical assistance to local governments. Among our primary responsibilities:

- Maintain 610 miles of regional interceptor sewers that collect flow from more than 5,000 miles of local sewers owned by 109 communities.
- Process an average of 250 million gallons of wastewater daily at 8 regional treatment plants.
- Work with about 850 industrial clients to substantially reduce the amount of pollution entering the wastewater system.
- Provide surface water quality monitoring and analysis for the region.
- Conduct research and develop policies and plans related to the region's water supply.
- Partner with numerous public, private and nonprofit groups committed to a clean environment.

Council supports regional growth

Our wastewater treatment services protect public health and the environment while supporting regional growth. Guided by the regional long-range plan, *Thrive MSP 2040*, we ensure that:

- Sufficient sewer capacity exists to serve planned development.
- Sufficient capital investments are made to preserve water quality in the region.
- Wastewater collection and treatment is competitive for cost and quality.
- Local plans provide for adequate water supply and prevention of pollution from nonpoint sources, such as urban and agricultural stormwater runoff.

MCES maintains outstanding environmental record

The Council's wastewater treatment plants continue to perform at a high level, achieving outstanding compliance with federal and state clean water discharge permits. Two plants—Hastings and St. Croix Valley—are among the top eight plants in the country for consecutive years of full compliance with their permits (28 and 27 years, respectively).

Service is responsive

We work with and for citizens in a number of ways, including partnering on environmental improvement efforts and addressing process-related and industrial odor-control issues. We also reach out to the public with educational programs, public meetings, forums, surveys, and newsletters.

Council coordinates water supply planning

Under state law, the Council carries out planning activities that address the water supply needs of the seven-county metro area. The law requires the Council to maintain a base of technical information to assist local governments to make sound decisions about water supply issues, and to develop a regional master plan for water supply.

After years of study and regional input, and with assistance from state and local officials on the Metropolitan Area Water Supply Advisory Committee, the Council developed a *Master Water Supply Plan*. The plan emphasizes conservation, inter-jurisdictional cooperation and long-term sustainability. The Council last updated the plan in September 2015.

Council monitors regional water quality

Environmental Services implements a variety of strategies to meet its mission of “providing wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.” We monitor and analyze the water quality of the region’s lakes and rivers; partner with public, private and nonprofit groups to improve water quality; and assist with watershed planning and management.

The division’s work is guided by the *2040 Water Resources Policy Plan*, a chapter of the Metropolitan Development Guide (of which *Thrive MSP 2040* is the foundation). The updated policy plan embraces an integrated approach to water supply, water quality, and wastewater treatment; it also emphasizes collaboration with local government, state, and other partners.

Long-range plans include significant energy savings

Environmental Services implements an ongoing capital improvement program to maintain and improve the region’s wastewater infrastructure, support regional growth, and meet regulatory requirements. The 2019 capital budget is \$156 million. The budget supports projects at the eight treatment plants as well as numerous interceptor, lift station, and meter station construction and rehabilitation projects.

We are reducing energy consumption at our facilities. In the last decade, our efforts to conserve and recover energy have yielded an annual savings of more than \$3.5 million for our customers. By 2020, we anticipate reducing our energy purchases by another \$1 million annually. We also have more than 17 megawatts of solar energy under contract. In 2018, we began a new partnership with Xcel Energy to make all of our electricity purchases 100% renewable by 2040.

For more information

Visit www.metrocouncil.org/Wastewater-Water or call 651-602-1000.

MCES consistently achieves outstanding compliance with federal and state clean water discharge standards.

