ELECTRONIC PACKET

June 14, 2021 OPERATIONS COMMITTEE MEETING

RELEASED: Monday, June 7, 2021



Milwaukee Metropolitan Sewerage District

Meeting Agenda

Operations Committee

Bryan L. Kennedy, Ph.D., Vice Chair Dan Bukiewicz, LaTonya Johnson, Kris Martinsek				
Dan Devine, Ex-Officio				
Monday, June 14, 2021 9:00 AM Dennis M. Grzezinski Conference Roor				

NOTICE IS HEREBY GIVEN, pursuant to Section 19.84, Wisconsin Statutes, that the Milwaukee Metropolitan Sewerage District's Operations Committee will hold its regularly scheduled public meeting on Monday, June 14, 2021, at 9:00 a.m. at the District's Headquarters, 260 W. Seeboth Street, Milwaukee, Wisconsin, in the Dennis M. Grzezinski Conference Room.

PURSUANT TO SECTION 19.85(1)(g), Wisconsin Statutes, the Committee reserves the right to go into Closed Session on any item on the public portion of the agenda to confer with Legal Counsel when it appears the matter may involve the District in litigation. If the Committee does convene in such a Closed Session, it is contemplated that the Committee will again, before adjourning the meeting, reconvene at the same place in Open Session at which time the Committee may act upon any item(s) considered in the Closed Session and upon any unfinished items from the regular agenda.

CALL TO ORDER

RECORD ROLL

Approval of Proceedings of Regular Committee Meeting held May 10, 2021

NEW BUSINESS

1	21-077-6	Change Order Request, Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility
2	21-078-6	Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost
3	21-079-6	Change Order Request, Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements
4	21-080-6	Award of Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

5	21-081-6	Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility
6	21-082-6	Review of the 2020 Wisconsin Department of Natural Resources Compliance Maintenance Annual Reports for the Jones Island and South Shore Water Reclamation Facilities
7	21-083-6	Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81
8	21-084-6	Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters
9	21-085-6	Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis
10	21-086-6	Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project, and Approve Changes in Total Project Cost
11	21-087-6	Approval of Funding Agreement M10005MI02 Under Project M10005, 2021 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

ORGANIZATION & ADMINISTRATION

- 21-001-1 EXECUTIVE DIRECTOR'S REPORT
 - A. Monthly Reports

ADJOURNMENT

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Office of the Commission at 414.225.2264, (FAX) 414.277.6360 or write to Office of the Commission, 260 W. Seeboth Street, Milwaukee, Wisconsin, 53204-1446.

ana well

Anna Kettlewell, Commission Secretary Milwaukee Metropolitan Sewerage District



Meeting Minutes

Operations Committee

n Swan III Chair

Bryan L. Kennedy, Ph.D., Vice Chair Dan Bukiewicz, LaTonya Johnson, Kris Martinsek Dan Devine, Ex-Officio				
Monday, May 10, 2021 9:00 AM Dennis M. Grzezinski Conference				

CALL TO ORDER

Committee Chair Commissioner Swan called the meeting to order at 9:00 a.m.

RECORD ROLL

Present 6 - Dan Bukiewicz, LaTonya Johnson, Bryan L. Kennedy Ph.D., Kris Martinsek, John Swan III, and Dan Devine

Other Commissioners Present: Tim Carpenter, Eugene Manzanet, Jeff Stone, and Corey Zetts.

Approval of Proceedings of Regular Committee Meeting held April 12, 2021

A motion was made by Commissioner Kennedy, seconded by Commissioner Johnson. The motion carried.

NEW BUSINESS

1 <u>21-062-5</u> Contract TS-2684, On-call Engineering Services for Water Reclamation Facilities

The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.

A motion was made by Commissioner Kennedy, seconded by Commissioner Devine, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.

2 <u>21-063-5</u> Restore Executive Director's Original Delegated Authority, Contract J04067C01, Dewatering and Drying South Cake Loadout Addition at Jones Island Water Reclamation Facility

The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.

A motion was made by Commissioner Johnson, seconded by Commissioner Kennedy, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.

3	<u>21-064-5</u>	Contract C06023D01, Engineering Services - Veterans Affairs Grounds Metropolitan Interceptor Sewer Relocation
		The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Kevin L. Shafer, P.E., Executive Director.
		A motion was made by Commissioner Kennedy, seconded by Commissioner Johnson, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.
4	<u>21-065-5</u>	Contract I05002D01, Engineering Services, Combined Sewer Outfall 195 Relocation
		The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Kevin L. Shafer, P.E., Executive Director.
		Commissioner Johnson was out of the room for this item.
		A motion was made by Commissioner Martinsek, seconded by Commissioner Devine, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.
5	<u>21-066-5</u>	Restore Executive Director's Original Delegated Authority, Contract P01005C04, Pipeline Cleaning Phase 1 - Interplant Sludge System Improvements
		The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services.
		A motion was made by Commissioner Johnson, seconded by Commissioner Kennedy, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.
6	<u>21-067-5</u>	Change Order Request, Contract W45002D01, Engineering Services - Wilson Park Creek Reach 3 - Phase 1, and Restore the Executive Director's Original Delegated Authority
		The Committee received a PowerPoint presentation from Michael Martin, Director of Technical Services, with comments by Kevin L. Shafer, P.E., Executive Director.
		Commissioner Carpenter asked if there would be additional waterway access provided under this contract.
		Commissioner Carpenter questioned how many feet on either side of the river the District owned.
		A motion was made by Commissioner Johnson, seconded by Commissioner Bukiewicz, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.

7 <u>21-068-5</u> Approve Change in Total Project Cost for Project C98044, Metropolitan Interceptor Sewer Abandonment in Various Locations, and Amend Total Project Cost for Project M99001, Allowance for Cost and Schedule Changes

The Committee received a PowerPoint presentation from Micki Klappa-Sullivan, Manager of Engineering Planning.

A motion was made by Commissioner Martinsek, seconded by Commissioner Kennedy, that this matter be approved by a voice vote. The motion carried by a unanimous voice vote.

ORGANIZATION & ADMINISTRATION

21-001-1 EXECUTIVE DIRECTOR'S REPORT

A. Monthly Reports

A. No report.

ADJOURNMENT

It was moved by Commissioner Kennedy, seconded by Commissioner Devine, to adjourn. The motion carried.

As there was no further business, the meeting was adjourned at 9:47 a.m.

Dewell anna

Anna Kettlewell, Comparission Secretary Milwaukee Metropolitan Sewerage District



COMMISSION FILE NO: 21-077-6 DATE INTRODUCED: June 14, 2021

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Request, Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract J04037C01, Thickened Activated Sludge (TAS) Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility (JIWRF), with Next Electric, LLC, (Next) in an amount not to exceed \$53,581.

At JIWRF, different types of partially processed biosolids from both JIWRF and the South Shore Water Reclamation Facility are combined, further processed and heat dried to produce Milorganite®. To meet Milorganite® product quality specifications, the total mass and flow rates of the various biosolids must be controlled. The actual mass and flow rates are measured using density and flow meters. This data is then used to control the mass and flow rates.

In June 2020, the Executive Director executed Contract J04037C01 with Next in the amount of \$137,978. The contract includes removing existing density and flow meters on TAS pipelines in the Equalization and Blend Facility and installing new, larger diameter density and flow meters. Larger diameter meters reduce discharge pressures at the thickened sludge pumps, thereby reducing pump discharge pressure, energy consumption and extending time between pump overhauls. In July 2020, the Commission delegated \$50,000 in authority to the Executive Director for future change orders to Contract J04037C01.

ATTACHMENTS: BACKGROUND		
FISCAL NOTE 🛛 S/W/MBE 🗌 OTH	HER 🗌	
OP_J04037C01_Change_Order_legislative_file.docx 05-21-21		
COMMITTEE ACTION:		DATE:
COMMISSION ACTION:		DATE:

Change Order Request, Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility

Currently, TAS is conveyed into a large tank in the Equalization and Blend Facility where it combines with other sludges to become blended sludge (BSD). Two pipelines can convey BSD to the Dewatering and Drying Facility. Only one BSD pipeline has a density meter and has been designated as the primary pipeline. A secondary pipeline is used when the primary pipeline is out of service, but the secondary pipeline does not have a density meter. Controlling drying process variables when using the secondary pipeline without a density meter is difficult, causing fluctuations in dryer loadings that adversely affect product quality. A new density meter on the secondary pipeline would make the BSD pipelines redundant and would improve the consistency and quality of Milorganite® production when either pipeline is used. The requested change order will provide a new density meter on a BSD pipeline in the Equalization and Blend Facility.

Staff recommends implementing this change order under Contract J04037C01, based on the following reasons:

- The scope of the proposed change order is similar in character and closely related to the original scope of Contract J04037C01. The new density meter will be provided on a BSD pipeline, just downstream of density flow meters replaced on the TAS pipelines in the Equalization and Blend Facility.
- The change order cost is comparable to the cost of the density meter work in the original contract, which was competitively bid.

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$137,978		Executive Director	18.8%
Previous Change Orders	\$7,343	5.3%	Executive Director	0%
Requested Change Order	\$53,581	38.8%	Request of Commission	17.9%
Total Change Orders	\$60,924	44.1%		15.7%
TOTAL	\$198,902			17.9%

CONTRACT COST CHANGES

RESOLUTION

Change Order Request, Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility, with Next Electric, LLC, in an amount not to exceed \$53,581.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Change Order Request, Contract J04037C01, Thickened Activated Sludge Flow and Density Meters Upgrade at Jones Island Water Reclamation Facility

Capital Project Number(s) Impact of Requested Action on Total Project Cost:				
J04037	Increase Decrease New Project X No Change			
Total Project Cost Analysis	Project Costs			
Adopted 2021 Total Project Cost	\$2,918,000			
Previously Approved Changes \$0				
Approved Total Project Cost	\$2,918,000			
Requested Total Project Cost	n/a			
Requested (Increase)/Decrease	\$0			
	Financing Plan to address Total Project Cost change			
Transfer from Allowance for Cost and Schedule Changes				
Transfer from another project (specify in comments)				
Delay Project(s) (specify in comments)				

Other	
Transfe	er to Allowance for Cost and Schedule Changes

Delete Project(s) (specify in comments)

Comments		
Budget Review by: Christine Durkin	_	Date: <u>5/12/2021</u>



COMMISSION FILE NO:	21-078-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Sign	ature on File in the Office of the C	commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J04061C03, Programmable Logic Control (PLC) 5 Upgrade in the Dewatering and Drying (D&D) Facility (Rebid), to Allan Integrated Control Systems, Inc., (AICS) in the amount of \$2,744,900. AICS was the lowest responsible, responsive bidder between two bids received.

Further, the Commission is requested to decrease the total project cost (TPC) for Project J04061, D&D PLC 5 Upgrades, by \$1,158,039 for an amended TPC of \$6,740,000 and to make a corresponding change to the TPC for Project M99001, Allowance for Cost and Schedule Changes.

The District's D&D Facility houses equipment utilized to produce Milorganite®. Twenty-four belt filter presses dewater plant sludges, and 12 rotary dryers dry the dewatered sludge. Dried solids are classified using screens and mills to create a consistent Milorganite® product size. Product is cooled and placed into storage bins to await transport to the Milorganite® Storage Building. The D&D Facility also contains conveyors, bucket elevators, holding tanks, air emissions equipment, and other supporting systems. The D&D Facility has been in use since 1994.

ATTACHMENTS: BACKGROUND		
FISCAL NOTE 🛛 S/W/MBE 🖾 OTH	HER 🗌	
OP_Award_J04061C03_Dewatering_and_Drying_PLC5_Upgrade_ 05-26-21	legislative_file.docx	
COMMITTEE ACTION:		DATE:
COMMISSION ACTION:		DATE:

Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

Approximately 66 PLC's distributed throughout the D&D Facility provide localized control of equipment. A PLC is an industrial computer designed specifically for the control of manufacturing processes in challenging environments. The existing set of PLC's (Allen Bradley PLC5) were installed in 1994. Rockwell Automation, the parent company of Allen Bradley, announced that the PLC5 product line has reached its end of life; they have discontinued manufacturing new parts, and equipment repair depends solely upon existing parts inventory. This creates a situation where, without replacement, the District's D&D control system will ultimately be unable to control the D&D Facility.

It is critical that PLC control equipment be functional and maintainable for the continued operation of the D&D Facility. The purpose of this project is to replace the existing PLC5 control platform and accompanying control equipment with a modern, serviceable control platform and equipment. The improved functionality of the new control equipment will provide enhanced performance, fault tolerance, and safety.

Under Contract J04061C03, the contractor will:

- Upgrade 60 PLC5s to Allen Bradley ControlLogix PLC's.
- Upgrade network switches and cabling to improve the capability of the existing PLC communication network.
- Replace existing alarm annunciators with human/machine interface panels.
- Provide hardware and programming enhancements to improve operator control, visibility, fault tolerance, and safety.
- Provide control system integration, testing, commissioning, startup, training, and documentation.

Upgrades to the remaining six PLC's in the D&D Facility are included with other contracts that are replacing their PLC controlled equipment.

The duration of this contract is 3.75 years.

The low bid received by the District is less than budgeted, and staff requests to decrease the TPC accordingly.

In March 2021, District staff requested the Operations Committee to award Contract J04061C01 to AICS. This contract consisted of generally the same scope of services as proposed contract J04061C03. After Committee approval, AICS notified District staff that they were unable to obtain a performance bond for J04061C01. Subsequently, the Commission did not award this contract, and, in April 2021, the Commission rejected all bids for this contract.

Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

Staff revised the J04061C01 bid documents to create the J04061C03 bid documents. After the J04061C03 bid opening, staff questioned AICS about their ability to obtain a performance bond for this proposed contract. AICS's bond surety has provided a written statement indicating that they will issue the required performance bond.

RESOLUTION

Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), is awarded to Allan Integrated Control Systems, Inc., in the amount of \$2,744,900, and that the Executive Director is directed to execute a contract on behalf of the District.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the total project cost for Project J04061, Dewatering and Drying Programmable Logic Control 5 Upgrades, is decreased by \$1,158,039 for an amended total project cost of \$6,740,000, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

Capital Project Number(s) J04061	Impact of Req	uested Action on Total	Project Cost:
Total Project Cost Analysis		Project Costs	<u>.</u>
Adopted 2021 Total Project Cost	\$7,898,039		
Previously Approved Changes		\$0	_
Approved Total Project Cost		\$7,898,039	_
Requested Total Project Cost		\$6,740,000	
Requested (Increase)/Decrease		\$1,158,039	_

 Transfer from Allowance for Cost and Schedule Changes
Transfer from another project (specify in comments)
Delay Project(s) (specify in comments)
Delete Project(s) (specify in comments)
Other
X Transfer to Allowance for Cost and Schedule Changes

Comments

The low bid received is less than budgeted and staff are requesting a decrease in the total project cost.

Budget Review by:

Christine Durkin

Date:

5/12/2021

Award of Contract J04061C03, Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost



Procurement & S/W/MBE Summary Information

Contract # J04061C03

Cost Center: ENG

Programmable Logic Control 5 Upgrade in the Dewatering and Drying Facility (Rebid), and Approve Changes in Total Project Cost

BID SUMMARY

Bid Opening Date: 4/28/2021

	Total	SWMBE	Local
# of Bids	2	1	0
# of Responsive Bids	2	1	0

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Allan Integrated Control Systems, Inc. East Troy, WI 53120 (WBE)	\$2,744,900.00	Responsive	Responsible	34.3%	80.3%
Next Electric Waukesha, WI 53186	\$4,525,700.00	Responsive	Responsible	Not provided	20.0%

SUBCONTRACTOR INFORMATION

Туре	Subcontractor Name	Type of Work	%	Amount
MBE	Globetrotters Engineering Chicago, IL 60606	Engineering services - creating CAD files	14.6%	\$400,000.00
Non-SWMBE	Staff Electric Menomonee Falls, WI 53051	Electrical work	19.7%	\$540,150.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements	
Sanitary Sewer Service Area (SSSA) Employment:	20%
Target Area (TA) Employment:	10%
# Apprentices Required:	*(2) Apprentices; (2) Interns

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered firms in the mechanical and electrical categories, sent targeted e-mails to potential prime bidders and notified the various local chambers of commerce. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Allan Integrated Control Systems, Inc., HPI Energy Services, SOAP Engineering, Enhanced Automation, MG Automation, Inc.

If no or low S/W/MBE participation, explain why: NA

Additional Comments:

Apprentices: (2) apprentices shall be employed when journeymen are employed; Interns: (2) interns working 400 hours each shall be employed from within the Target Area

AWARDEE INFORMATION

Company:	Allan Integrated Control Systems Inc.	
Contact Person:	Ted Zess	
Phone Number:	(262) 642-7800	
E-mail Address:	tzess@allan-ics.com	

EEO DATA

2021 Beulah Avenue, East Troy, Location: <u>WI 53120</u>			
	<u>Total</u>	<u>%</u>	
Minorities	0	0.0%	
African American	0	0.0%	
Asian	0	0.0%	
Hispanic	0	0.0%	
Native American	0	0.0%	

Labor Market Availability - Minorities 22.0%

Total #	Total # of Employees	
	<u>Total</u>	<u>%</u>
Females	2	15.4%
African American	0	0.0%
Asian	0	0.0%
Hispanic	0	0.0%
Native American	0	0.0%

Labor Market Availability - Females 49.0%



COMMISSION FILE NO:	21-079-6	DA	TE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signature on File in the Office of the Commission)			
REFERRED BY COMMIS	SION CHAIRPER	SON TO:	Operations Committee	

RELATING TO: Change Order Request, Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility (JIWRF) Chaff System Improvements, with Applied Technologies, Inc., (ATI) in an amount not to exceed \$127,000.

At JIWRF, the Dewatering and Drying (D&D) Facility processes biosolids from both JIWRF and the South Shore Water Reclamation Facility and produces Milorganite®. The Milorganite® production process utilizes up to 12 rotary dryers to heat-dry dewatered biosolids. The dryers use hot gases from either turbines fueled by natural or landfill gas or natural gas or landfill gas fired directly in the dryers. As the hot gases dry the sludge via direct contact, they accumulate particulate matter in the gas stream, which can result in air pollution if the particulate matter is not removed. To capture this particulate matter, each dryer discharges exhaust gases through an air pollution control system consisting of a dedicated cyclone separator, quench chamber, wet electrastic precipitator (WESP), and induced draft fan.

In addition, Milorganite® production and transport creates significant dust, chaff, and particulate matter that must be captured and disposed. This material must be managed, as otherwise it can create explosion and health risks and is a source of air pollution. There are several collection, containment, and transfer systems within the D&D facility that both interact with the air pollution control system to remove particulate matter and also transport the collected dust and chaff to luggers for disposal at a landfill.

ATTACHMENTS: BACKGROUND		
FISCAL NOTE 🛛 S/W/MBE 🗌 OTH	IER 🗌	
OP_J04064E01_CO_Chaff_System_Improvements_legislative_file. 05-21-21	.docx	
		DATE:
COMMISSION ACTION:		DATE:

Change Order Request, Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements

These systems originally went into operation in 1994. Some of the equipment has never been replaced and is nearing the end of its useful service life. Some of the equipment has had performance issues, resulting in downstream operation and maintenance issues. Unplanned operation and maintenance issues can result in reduced capacity to process biosolids. The performance of the air pollution control systems are regulated by the Wisconsin Department of Natural Resources via air permits. Reliable and proper operation is critical to ensure continued air permit compliance.

District staff created Project J04064, Chaff System Improvements, with the purpose of ensuring reliable biosolids processing and Milorganite® production capabilities and reliable air permit compliance. In April 2020, the Executive Director executed a preliminary engineering contract (J04064E01) with ATI in an amount of \$249,268. This contract was to perform preliminary engineering services related to the following systems within the D&D Facility:

- Dryer and Screener (Classification) Area Dust Containment System
- WESP System
- Cyclone Waste Processing System
- Dryer Exhaust System

The scope of this contract included assessing current conditions and functions and identifying means to improve performance, reduce unplanned maintenance, increase reliability, and reduce the risk of air permit noncompliance, all related to the above systems.

ATI has completed the original preliminary engineering scope of services. The preliminary engineering phase identified about 20 separate recommendations to improve the performance, reliability, and safety of these systems. Staff recommends that the District begin design of three of those improvements, as they address higher priority safety related issues. Following are descriptions of these three improvements:

- 1. Replace the horizonal inlet ductwork to all 12 cyclone waste processing and exhaust systems with smaller diameter ducts. The current ductwork is oversized, reducing air velocity in the ductwork and resulting in dust settlement in the ductwork. Buildup of dust within this ductwork was identified as a possible cause to a recent fire within the Dryer #10 WESP system.
- Modify the quench chamber drains on all 12 WESP systems to prevent plugging. This improvement will reduce the likelihood of dust combustion in the WESP system.

Change Order Request, Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements

3. Replace the existing grated flooring with solid flooring on the mezzanine level over the chaff storage room. Grated flooring allows air movement from the chaff storage room throughout the entire D&D Facility, leading to elevated safety risks because of fugitive dust. Solid flooring will contain the dust within the chaff storage room.

The requested change order under Contract J04064E01 includes additional project management services and the following new tasks, all related to engineering design services for the above three improvements:

- Design services
- Bid and award services
- Engineering services during construction
- Operations and maintenance manual updates, training, and startup services
- Applications engineering

After the design work is complete, the District will publicly bid this construction contract.

District staff will develop a request for proposal for the engineering design services for the remainder of the improvements identified as part of the preliminary engineering phase.

This change order request will increase the duration for this contract by approximately 66 weeks.

CHANGE ORDER SUMMARY

PURCHASE ORDER	AMOUNT	PERCENT INCREASE OVER ORIGINAL PURCHASE ORDER	AUTHORIZED BY	SWMBE
Original	\$249,268		Executive Director	78%
Requested Change Order	\$127,000	49%	Request of Commission	79%
TOTAL	\$376,268			79%

RESOLUTION

Change Order Request, Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract J04064E01, Preliminary Engineering, Jones Island Water Reclamation Facility Chaff System Improvements, with Applied Technologies, Inc., in an amount not to exceed \$127,000.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Change Order Request, Contract J04064E01, Preliminary Engineering Jones Island Water Reclamation Facility Chaff System Improvements

Capital Project Number(s) Impact of Requested Action on Total Project Cost:				
J04064	Increase Decrease New Project X No Change			
Total Project Cost Analysis	Project Costs			
Adopted 2021 Total Project Cost	\$14,269,244			
Previously Approved Changes	\$0			
Approved Total Project Cost	\$14,269,244			
Requested Total Project Cost	n/a			
Requested (Increase)/Decrease	<u> </u>			
Action to be taken to Long-Range	inancing Plan to address Total Project Cost change			
T	ansfer from Allowance for Cost and Schedule Changes			
Transfer from another project (specify in comments)				
Delay Project(s) (specify in comments)				

Delete Project(s)	(specify in comments)
Other	

Transfer to Allowance for Cost and Schedule Changes

Comments	
Budget Review by:	Date:
Christine Durkin	5/12/2021



COMMISSION FILE NO:	21-080-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signature on File in the Office of the Commission)		
REFERRED BY COMMIS	SION CHAIRPERSON	TO: Operations Committee	

RELATING TO: Award of Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility (JIWRF), with J.F. Ahern Company (Ahern) in an amount of \$231,000. Ahern was the lowest responsible, responsive bidder among three bids received.

At JIWRF, eight bar screens are used to screen rags, large solids, and other debris from plant influent. Depending upon flows and influent solids loads, six (and at times seven) screens are in service to maintain full plant capacity of 330 million gallons per day (MGD). Each bar screen is a series of vertical bars spaced one quarter inch apart, mounted to a stationary frame. The bars are mounted to the frame in groups or racks. To remove screenings, each bar screen uses a series of chain driven rakes that travel vertically upward along the front face of the bar screen. The rakes carry the screenings out of the wastewater and discharge them into a wash press. The wash press cleans the screenings, then squeezes them dry before discharging to screw conveyors. These conveyers carry the compressed screenings to roll off containers, which are then hauled to a landfill.

The existing bar screen equipment, which was supplied by Huber Technology, Inc., (Huber) as part of a District construction contract, has been in service since 2013. The equipment has experienced significant wear, and large debris has damaged some of these screens. Due to this wear and damage, over the past several months, three bar screens (#3, #5, and #6) have been taken out of service. In addition, bar screen #8 is in very poor condition and is only available on a limited, emergency basis. During this time, Veolia Water Milwaukee (VWM) has had to reduce JIWRF wet weather capacity.

ATTACHMENTS: BACKGROUND	$KEYISSUES\square\qquadRESOLUTION\boxtimes$
FISCAL NOTE 🛛 S/W/MBE 🖾 OTHE	ER 🗌
OP_Award_J06075C17_installation_Bar_Screens_legislative_file.doc 05-12-21	x
COMMITTEE ACTION:	DATE:
COMMISSION ACTION:	DATE:

Award of Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

Two of these three units (#3 and #5) have recently been repaired and restored to service. While this provides nominal screening capacity of 330 MGD, there is now no redundancy. Bar screen #6 needs to be replaced and remains out of service.

Rehabilitation and repair of screens #1, #2, #4, #7, and #8 consist of replacing multiple parts on each screen.

As the bar screen parts are long lead items, in April 2021, the Commission authorized purchase of the bar screen parts directly from Huber. Staff has since advertised a separate construction contract (J06075C17) that will replace the existing worn bar screen parts on screens #1, #2, #4, #7, and #8 and replace screen #6 in its entirety, using the parts supplied separately by Huber. This proposed Commission request is the award of that publicly bid contract.

Each bar screen repair or replacement is considered a Material Capital Repair or Replacement (MCRR) project under the terms of the Operations and Maintenance agreement with VWM. Following are the MCRR numbers associated with each screen.

Bar Screen #	MCRR #	Repair or Replace	Estimated Return to Service Date
1	1441	Repair	September 2021
2	1442	Repair	September 2021
4	1443	Repair	October 2021
6	1425	Replace	January 2022
7	1444	Repair	October 2021
8	1438	Repair	November 2021

RESOLUTION

Award of Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J06075C17, Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility, is awarded to J.F. Ahern Company in the amount of \$231,000, and that the Executive Director is directed to execute a contract on behalf of the District.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract J06075C17 for Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:			
J06075	Increase Decrease New Project X No Change			
Total Project Cost Analysis	Project Costs			
Adopted 2021 Total Project Cost	\$15,628,145			
Previously Approved Changes	\$0			
Approved Total Project Cost	\$15,628,145			
Requested Total Project Cost	n/a			
Requested (Increase)/Decrease	\$0			
	Financing Plan to address Total Project Cost change			
	ransfer from Allowance for Cost and Schedule Changes			
Transfer from another project (specify in comments)				
ſ	elay Project(s) (specify in comments)			
I	Delete Project(s) (specify in comments)			

Other
Transfer to Allowance for Cost and Schedule Changes

Comments	
Budget Review by:	Date:
Christine Durkin	5/11/2021

Award of Contract J06075C17 for Bar Screen Nos. 1, 2, 4, 7, and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility



Procurement & S/W/MBE Summary Information

Contract #	J06075C17

Cost Center: OCC

Bar Screen Nos. 1, 2, 4, 7 and 8 Rehabilitation and Bar Screen No. 6 Replacement at the Jones Island Water Reclamation Facility

BID SUMMARY

Bid Opening Date: 5/6/2021

	Total	SWMBE	Local
# of Bids	3	1	2
# of Responsive Bids	3	1	2

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
J.F. Ahern Co. Fond du Lac, WI 54935	\$231,000.00	Responsive	Responsible	39.3%	38.8%
Doral Corporation Milwaukee, WI 53207	\$276,995.00	Responsive	Responsible	Not provided	32.0%
Price Erecting Co., Inc. Milwaukee, WI 53214 (WBE)	\$285,524.00	Responsive	Responsible	32.3%	99.1%

SUBCONTRACTOR INFORMATION

Туре	Subcontractor Name	Type of Work	%	Amount
SBE	Energenecs Saukville, WI 53080	Huber inspection, start-up, and training	38.8%	\$89,632.00
Non-SWMBE	Next Electric Waukesha, WI 53186	Electrical	0.5%	\$1,100.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements

Sanitary Sewer Service Area (SSSA)	
Employment:	45%
Target Area (TA) Employment:	20%
# Apprentices Required:	0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter and sent an e-mail notification to all registered firms in the Construction category. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Energenecs; Integrated Process Solutions; Price Erecting Co., Inc.

If no or low S/W/MBE participation, explain why:

n/a

Additional Comments:

n/a

AWARDEE INFORMATION

Company:	J.F. Ahern Co.
Contact Person:	John Paap
Phone Number:	(920) 907-5536
E-mail Address:	jpaap@jfahern.com

EEO DATA

Location	855 Morris Street Fond du Lac, WI 5	54935	Total # c	of Employees
	Total	<u>%</u>		Total
Minorities	54	4.1%	Females	194
Asian	6	0.5%	Asian	1
Black or African American	9	0.7%	Black or African American	0
Hispanic or Latino	25	1.9%	Hispanic or Latino	2
Native American	5	0.4%	Native American	0
Other Minority	9	0.7%	Other Minority	0
Labor Market Av	vailability - Minorities	22.0%	Labor Market Availab	ility - Females

1,318

<u>%</u>

14.7% 0.1%

0.0%

0.2%

0.0%

0.0%

49.0%



COMMISSION FILE NO:	21-081-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signat	ure on File in the Office of the C	commission)
REFERRED BY COMMIS	SION CHAIRPERSON	TO: Operations Committee	

RELATING TO: Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract S06038C16, Waste Activated Sludge (WAS) Pump Replacements at South Shore Water Reclamation Facility (SSWRF), to Lee Plumbing Mechanical Contractors, Inc., (Lee Mechanical) in the amount of \$224,765. Lee Mechanical was the lowest responsible, responsive bidder among three bids received.

The activated sludge process is one of the fundamental steps in the water reclamation process. The process involves growing microorganisms in large aeration basins, where the microorganisms consume the organic material in wastewater. The source of the microorganisms is return activated sludge (RAS) from secondary clarifiers, which combine with primary clarifier effluent at the beginning of the aeration basins to form mixed liquor. The mixed liquor is continuously supplied with oxygen for several hours, which allows and promotes the microorganisms to consume the organic material in the wastewater.

The mixed liquor travels through the aeration basins to the secondary clarifiers. In the secondary clarifiers, the mixed liquor settles by gravity, creating activated sludge. The activated sludge is collected at the bottom of each secondary clarifier. Most of this activated sludge is returned as RAS and combined again with the primary clarifer effluent at the beginning of the aeration basins. With the continuous supply of new organic material, excess activated sludge is produced in the secondary clarifiers, which then must be "wasted", creating WAS. WAS pumps remove the WAS from the SSWRF secondary clarifiers by either sending the WAS to the digesters for storage or pumping the WAS to the Jones Island Water Reclamation Facility for Milorganite® production.

ATTACHMENTS: BACKGROUND KEY ISSUES					
FISCAL NOTE 🛛 S/W/MBE 🖾 OTHER 🗌					
OP_Award_S06038C16_WasteActivatedSludgePumps_legislative_file.docx 05-17-21					
COMMITTEE ACTION: DATE:					
COMMISSION ACTION:	DATE:				

Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility

At SSWRF, there are four WAS pumps (WAS Pumps 1, 2, 3, and 4). The four WAS pumps were installed in 1984 and have exceeded their useful service lives. Rotating parts show signs of severe wear, metallic parts are corroded beyond repair, and the pump seals leak activated sludge on the floor. This results in pumps frequently requiring repairs, and, if multiple pumps are out at the same time, could result in reduced plant capacity. The purpose of this project is to help ensure a reliable means to withdraw WAS from the system and keep the plant at full capacity.

Under this contract, the contractor will:

- Remove the existing pump motors, motor stands, pumps, suction elbows, and pump pedestals.
- Blast clean and epoxy coat the existing motor stands, suction elbows, and pump pedestals.
- Install new pumps and pump motors.
- Connect, align, and balance the four new pumps and motors.
- Perform pump startup and testing.

The contract duration is 240 days.

RESOLUTION

Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility, is awarded to Lee Plumbing Mechanical Contractors, Inc., in the amount of \$224,765, and that the Executive Director is directed to execute a contract on behalf of the District.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:				
S06038	Increase Decrease New Project X No Change				
Total Project Cost Analysis	Project Costs_				
Adopted 2021 Total Project Cost	\$18,199,556				
Previously Approved Changes	\$0				
Approved Total Project Cost	\$18,199,556				
Requested Total Project Cost	n/a				
Requested (Increase)/Decrease	<u> </u>				
Action to be taken to Long-Range	ancing Plan to address Total Project Cost change				
T	sfer from Allowance for Cost and Schedule Changes				
Ті	sfer from another project (specify in comments)				
Delay Project(s) (specify in comments)					

Delete Project(s) (specify in comments)

Other

Comments		
Dudget Deview by		Date:
Budget Review by:		Dale.
Christine Durkin		5/12/2021

Transfer to Allowance for Cost and Schedule Changes

Award of Contract S06038C16, Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility



Procurement & S/W/MBE Summary Information

Contract #	S06038C16	Cost Center:	000

Waste Activated Sludge Pump Replacements at South Shore Water Reclamation Facility

BID SUMMARY

Bid Opening Date: 4/9/2021

	Total	SWMBE	Local
# of Bids	3	0	1
# of Responsive Bids	3	0	1

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Lee Plumbing Mechanical Contractors, Inc. Kenosha, WI 53140	\$224,765.00	Responsive	Responsible	75.4%	73.0%
J.F. Ahern Co. Fond du Lac, WI 54935	\$229,475.00	Responsive	Responsible	73.4%	71.5%
Butters-Fetting Co. Milwaukee, WI 53204	\$237,750.00	Responsive	Responsible	77.2%	77.2%

SUBCONTRACTOR INFORMATION

Туре	Subcontractor Name	Type of Work	%	Amount
MBE	Thomas A. Mason Co., Inc. Milwaukee, WI 53203	Painting	5.3%	\$11,998.00
SBE	Crane Engineering Sales Kimberly, WI 54136			\$152,000.00
Non-SWMBE	Pieper Electric, Inc. New Berlin, WI 53151	Electrical	2.4%	\$5,500.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements						
Sanitary Sewer Service Area (SSSA) Employment:	45%					
Target Area (TA) Employment:	20%					
# Apprentices Required:	0					

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter and sent an e-mail notification to all registered firms in the Construction category. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

<u>S/W/MBE Planholders:</u> Crane Engineering Sales

If no or low S/W/MBE participation, explain why:

n/a

Additional Comments: n/a

AWARDEE INFORMATION

Company:	Lee Plumbing Mechanical Contractors, Inc.
Contact Person:	Dave Ruffalo
Phone Number:	(262) 771-5214
E-mail Address:	druffalo@selectlee.com

EEO DATA

2915 60th Street Location: <u>Kenosha, WI 53140</u>							
	Total	<u>%</u>					
Minorities	10	4.8%					
African American	4	1.9%					
Asian	1	0.5%					
Hispanic	5	2.4%					
Native American	0	0.0%					

Labor Market Availability - Minorities 22.0%

Total #	Total # of Employees			
	Total			
Females	16	7.7%		
African American	1	0.5%		
Asian	0	0.0%		
Hispanic	1	0.5%		
Native American	0	0.0%		

Labor Market Availability - Females 49.0%



Item 6

COMMISSION FILE NO:	21-082-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signa	ture on File in the Office of the C	commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Review of the 2020 Wisconsin Department of Natural Resources Compliance Maintenance Annual Reports for the Jones Island and South Shore Water Reclamation Facilities

SUMMARY:

The Commission is requested to review the Jones Island Water Reclamation Facility (JIWRF) 2020 Compliance Maintenance Annual Report (CMAR) and to authorize the Executive Director to transmit the JIWRF CMAR to the Wisconsin Department of Natural Resources (WDNR) by June 30, 2021.

Further, the Commission is requested to review the South Shore Water Reclamation Facility (SSWRF) 2020 CMAR and to authorize the Executive Director to transmit the SSWRF CMAR to WDNR by June 30, 2021.

Chapters NR-208 and NR-210 of the Wisconsin Administrative Code require that a CMAR be submitted annually for each wastewater treatment plant. The Wisconsin Administrative Code also requires that the governing body of each publicly owned treatment works review the CMAR for the facilities under its jurisdiction and authorize staff to transmit the report to WDNR. Under the rules, submission to WDNR is required by June 30 of each year for the prior year's report.

ATTACHMENTS: BACKGROUND	$KEYISSUES\square\qquadRESOLUTION\boxtimes$
FISCAL NOTE 🗌 S/W/MBE 🗌 OTH	$ER oxtimes rac{2020 JI}{and} SS CMAR's$
OP_Review_2020_WDNR_CMARs_legislative_file.docx 05-21-21	
	DATE:
COMMISSION ACTION:	DATE:

Review of the 2020 Wisconsin Department of Natural Resources Compliance Maintenance Annual Reports for the Jones Island and South Shore Water Reclamation Facilities

The CMAR is essentially a score card that evaluates collection and treatment system performance in different categories. Each category is scored and graded. The results from each category are then combined into an overall grade. The categories and their results for 2020, as currently shown in the WDNR electronic database, are as follows:

CMAR CATEGORY	JIWRF	SSWRF
Influent Flow and Loadings	А	A
Effluent Quality: Biochemical Oxygen Demand (BOD)	A	A
Effluent Quality: Total Suspended Solids	A	A
Effluent Quality: Ammonia	N/A	A
Effluent Quality: Phosphorus	A	A
Biosolids Management	A	A
Staffing and Preventive Maintenance	A	A
Operator Certification	A	A
Financial Management	A	A
Collection Systems	A	A
OVERALL GRADE	4.00	4.00

A history of overall grade point averages for 2010 through 2020 for both facilities is shown in the table below.

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
JIWRF	4.00	4.00	3.91	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.91
SSWRF	4.00	4.00	3.59	3.79	3.75	4.00	3.90	3.79	3.84	3.84	3.46

RESOLUTION

Review of the 2020 Wisconsin Department of Natural Resources Compliance Maintenance Annual Reports for the Jones Island and South Shore Water Reclamation Facilities

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Commission has reviewed the 2020 Compliance Maintenance Annual Report for the Jones Island Water Reclamation Facility and authorizes the Executive Director to submit the 2020 Jones Island Water Reclamation Facility Compliance Maintenance Annual Report and this resolution to the Wisconsin Department of Natural Resources by June 30, 2021.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Commission has reviewed the 2020 Compliance Maintenance Annual Report for the South Shore Water Reclamation Facility and authorizes the Executive Director to submit the 2020 South Shore Water Reclamation Facility Compliance Maintenance Annual Report and this resolution to the Wisconsin Department of Natural Resources by June 30, 2021.

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Influent Flow and Loading

Influent No. Influent Monthly x Influent Monthly x 8.34 = Influent Monthly										
701		e Flow, MGD	^	Average BOD		^	0.54	_	Average BOD	
, 01	,			Concentration		J/L				Loading, lbs/day
January	9	4.8387	х	224			х	8.34	=	177,225
February	8	5.2759	x 231 x 8.34		=	164,067				
March	11	16.4194	х	217			х	8.34	=	210,881
April	9	9.8333	х	205			Х	8.34	=	170,824
Мау	15	57.2258	х	158			Х	8.34	=	207,814
June	10)2.7333	х	180			х	8.34	=	153,909
July	13	33.7742	х	164			Х	8.34	=	182,971
August	10	07.9032	х	216			х	8.34	=	194,526
September	8	3.3000	х	270		x 8.34 =		=	187,575	
October	7	5.5806	х	293	293 x 8.34 =		=	184,833		
November	8	1.6000	х	272		x 8.34 =		=	185,335	
	er 89.3226 x 240 x			8.34	Ш	178,668				
December	8	9.3226	х	240			Х	0.54	_	178,008
. Maximum M	lonthly D	esign Flow ar	nd De	esign BOD Loadi or your facility.	ng		x	0.54		178,008
. Maximum M 2.1 Verify the	lonthly D	esign Flow ar	nd De ng fe	esign BOD Loadi	ng x	I	x %		=	% of Design
. Maximum M 2.1 Verify the	lonthly D e design f Design	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility.	-			, 0		·
. Maximum M 2.1 Verify the	lonthly D e design f Design	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor	x		%	ю́ О	=	% of Design
. Maximum M 2.1 Verify the	Ionthly D e design f Design esign Flo	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor	x x		%	6 0 10	=	% of Design 144
. Maximum M 2.1 Verify the Max Month D	Ionthly D e design f Design esign Flo	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor 160	x x x		% 9 10	5 0 00 0	=	% of Design 144 160
. Maximum M 2.1 Verify the Max Month D Design BOD,	lonthly D e design f Design esign Flo Ibs/day	Design Flow ar flow and loadi w, MGD	ng fo	esign BOD Loadi or your facility. esign Factor 160 388000	x x x x x x x	90%	9 9 10 9	6 0 00 0 0	= = = =	% of Design 144 160 349200
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	fonthly D e design f Design esign Flo Ibs/day e number	Design Flow ar flow and loadi w, MGD	ng fe	esign BOD Loadi or your facility. esign Factor 160 388000	x x x x ded		9 9 10 9 10	6 0 00 0 0	= = = = of de	% of Design 144 160 349200 388000
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	1onthly D e design f Design esign Flo Ibs/day e number Months of	Design Flow ar flow and loadi w, MGD of times the Number of tin flow was grea	flow	esign BOD Loadi or your facility. esign Factor 160 388000 and BOD excee Number of time flow was greate	x x x x x ded	Nun BOD	9 9 10 9 10 5 or	6 0 00 00 100% c • of time s greate	= = = of de	% of Design 144 160 349200 388000 esign, points earned, Number of times BOD was greater
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	Ionthly D design f Design esign Flo lbs/day e number Months	Design Flow ar flow and loadi w, MGD of times the Number of tin flow was grea	flow	esign BOD Loadi or your facility. esign Factor 160 388000 and BOD excee Number of time	x x x x x ded	Nun BOD	9 9 10 9 10 5 or	6 0 00 00 100% c	= = = of de	% of Design 144 160 349200 388000 esign, points earned, Number of times

	Influent	than 90% of	than 100% of	than 90% of design	than 100% of design
January	1	0	0	0	0
February	1	0	0	0	0
March	1	0	0	0	0
April	1	0	0	0	0
Мау	1	1	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	0	0
Points per ea	h	2	1	3	2
Exceedances	;	1	0	0	0
Points		2	0	0	0
Total Numb	er of Po	oints			2

Milwaukee Metro Sew Dist Combined	Last Updated: Reporting For: 5/7/2021 2020
 3. Flow Meter 3.1 Was the influent flow meter calibrated in the last y Yes Enter last calibration date (MM/DE 2020-11-24 No 	
If No, please explain: Jones Island influent flow meters were calibrated wit meter: 2/26/2020, 5/13/2020 Low Level influent meter: 2/26/2020, 5/14/2020 Inline Storage System meters: 2/26/2020, 5/7/2020 5/7/2020, 8/8/2020, 8/15/2020, 10/9/2020	
 4. Sewer Use Ordinance 4.1 Did your community have a sewer use ordinance the excessive conventional pollutants ((C)BOD, SS, or pH) industries, commercial users, hauled waste, or resident Yes No If No, please explain: 	or toxic substances to the sewer from
 4.2 Was it necessary to enforce the ordinance? Yes No If Yes, please explain: Various violations occurred. The District responds to Response Plan. The semi-annual and annual Pretreat violations and the MMSD response. 	
5. Septage Receiving 5.1 Did you have requests to receive septage at your for Septic Tanks Holding Tanks Grease	,
o Yes o Yes o Yes	
● No ● No ● No	
 5.2 Did you receive septage at your facility? If yes, indi Septic Tanks Yes Septime Tanka 	cate volume in gallons.
Holding Tanks ○ Yes gallons ● No	
Grease Traps o Yes gallons	
 No 5.2.1 If yes to any of the above, please explain if planany of these wastes. 	It performance is affected when receiving
 Pretreatment 6.1 Did your facility experience operational problems, por hazardous situations in the sewer system or treatment commercial or industrial discharges in the last year? 	

Ailwaukee Metro Sew Dist Combined	Last Updated:	Reporting Fo
	5/7/2021	2020
o Yes		
• No		
If yes, describe the situation and your community's response.		
 6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc o Yes 	2.?	
• No		
If yes, describe the types of wastes received and any procedures or ot in place to protect the facility from the discharge of hauled industrial w		at were

Total Points Generated	2
Score (100 - Total Points Generated)	98
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No.	Monthly	90% of	Effluent Monthly	Months of	Permit Limit	90% Permit		
002	Average	Permit Limit	Average (mg/L)	Discharge	Exceedance	Limit		
-	Limit (mg/L)	> 10 (mg/L)		with a Limit		Exceedance		
January	30	27	9	1	0	0		
February	30	27	6	1	0	0		
March	30	27	10	1	0	0		
April	30	27	6	1	0	0		
May	30	27	6	1	0	0		
June	30	27	5	1	0	0		
July	30	27	6	1	0	0		
August	30	27	6	1	0	0		
September	30	27	6	1	0	0		
October	30	27	6	1	0	0	0	
November	30	27	9	1	0	0		
December	30	27	10	1	0	0		
		* Eq	uals limit if limit is	<= 10				
Months of d	ischarge/yr			12				
Points per e	ach exceedand	ce with 12 mor	nths of discharge		7	3		
Exceedance	S				0	0		
Points					0	0		
Total num	ber of points					0		
exceedance the numbe of the year	e for this section r of months of r, the multiplica	on shall be bas discharge. Exa ation factor is	mittently to state sed upon a multipl ample: For a wast 12/6 = 2.0 on was taken to re	ication factor of ewater facility	of 12 months d discharging or	livided by]	
2.1 Was the ● Yes ○ No	2020-08-19							
3. Treatmen 3.1 What pr None		, were experie	nced over the last	year that thre	eatened treatm	ent?]	
4.1 At any t		t year was the	re an exceedance fecal coliform, or I		nit for any othe	er pollutants		

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

If Yes, please explain:

4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?

o Yes

• No

If Yes, please explain:

4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?

o Yes

o No

• N/A

Please explain unless not applicable:

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Effluent Quality and Plant Performance (Total Suspended Solids)

	Limit (mg/L)	Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	7	1	0	0
February	30	27	5	1	0	0
March	30	27	8	1	0	0
April	30	27	5	1	0	0
Мау	30	27	6	1	0	0
June	30	27	4	1	0	0
July	30	27	5	1	0	0
August	30	27	6	1	0	0
September	30	27	5	1	0	0
October	30	27	5	1	0	0
November	30	27	6	1	0	0
December	30	27	6	1	0	0
		* Eq	uals limit if limit is	<= 10		
1onths of Di	ischarge/yr			12		
oints per e	each exceeda	ance with 12	months of disch	arge:	7	3
Exceedances	5				0	0
oints					0	0
Total Numb	per of Points					0

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 002	Monthly Average	Effluent Monthly	Months of	Permit Limit
	phosphorus Limit (mg/L)	Average phosphorus (mg/L)	Discharge with a Limit	Exceedance
January	.66	0.154	1	0
February	.66	0.136	1	0
March	.66	0.168	1	0
April	.66	0.117	1	0
Мау	.66	0.125	1	0
June	.66	0.135	1	0
July	.66	0.144	1	0
August	.66	0.210	1	0
September	.66	0.212	1	0
October	.66	0.147	1	0
November	.66	0.226	1	0
December	.66	0.204	1	0
Months of Dischar	ge/yr		12	
Points per each	exceedance with 1	2 months of dischar	ge:	10
Exceedances	0			
Total Number of	Points			0
exceedance for th the number of mo	is section shall be band the section shall be band the section shall be band to be band to be band to be band to band the section of the section shall be band to be	rmittently to waters o sed upon a multiplicat charging only 6 month	ion factor of 12 mor	ths divided by

1.2 If any violations occurred, what action was taken to regain compliance?

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 2020

Biosolids Quality and Management

	-	-																	
1. Biosolids 1.1 How c				spose	e of v	our l	oioso	lids?	(Che	eck a	ll tha	t app	ly)						
□ Land a									、				,,						
🛛 Public	ly Dis	tribut	ed Ex	cepti	onal	Quali	ty Bi	osoli	ds										
🗌 Hauleo	, d to a	nothe	er perr	nitte	d fac	ility													
🛛 Landfi			•			,													
☐ Incine																			
□ Other																			
NOTE: If as lagoor	[:] you (ns, re	ed be	ds, re	circu	lating	g san	d filt	ers,		em,	pleas	e des	scribe	e you	r sys	tem ty	ype su	ıch	
1.1.1 If y	you cl	necke	d Oth	er, pl	ease	desc	ribe												1
About Outfall	006	were	agricu	Itura	lly di	strib	uted	in 20)20 N	lothii	ng fro							n	
additio	on, no	tning	from	Outra		u wa	s ian	атше	a in	2020									
2. Land Ap	plicat	ion S	ite																
2.1 Last Y	'ear's	Appr	oved a				d Ap	plicat	ion S	Sites									
2.1.1 Ho			res di	d yoı	ı hav	'e?													
25578.8						2													1
2.1.2 Ho	w ma	ny ac	res di acro	-	ı use	?													
0																			
2.2 If you	ı did r	not ha	ve en	ough	acre	es for	you	r land	d app	licat	ion n	eeds	, wha	at act	ion v	vas ta	ken?		1
																			1
2.3 Did yo		orann	ly nitr	ogon	ona		f voi	ir ani	arove	d lar	nd an	nlica	tion	citoc	VOU	usod I	act vo] ar2	0
• Yes (3)			iy inci	ogen	UIT	iny O	i yot	n apl		u iai	iu ap	plica	CIOIT	SILES	you	useu i	asiye	ai :	
• No	o pon	103)																	
-	- 11 - 44-				1		6												
2.4 Have	all th	e site	s you	usea	last	year	tor I	and a	аррис	cation	n bee	en soi	l tesi	tea ir	n the	previo	ous 4		
years? • Yes																			
• No (10	noin	tc)																	
-	point	15)																	
• N/A																			_
3. Biosolid			_																1
Number o	of bios	olids	outfal	ls in	your	WPD	es p	ermi	t:										
3.1 For ea		utfall	tested	, ver	ify th	ne bio	solic	ls me	etal q	ualit	y val	ues f	or yo	ur fa	cility	durin	g the	last	
calendar y	year.																		1
Outfall No	. 010	- JI (Cake -	LAN	DFIL	LED													
Parameter	80%		Ceiling		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80%	High	Ceiling	1
	of	Limit			-			Í							-		Quality		1
Arsenic	Limit	41	75														0	0	1
Cadmium		39	85														0	0	
Copper		1500	4300														0	0	1
																	0	0	
Lead		300	040						I		 						-		
Lead Mercurv		300 17	840 57														0		
Mercury	60	300 17	57													0	0	0	
	60 336															0	0	-	
Mercury Molybdenum	-		57 75													-	0	0	

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

0

Outfall No	o. 00	6 - J	ones	Islar	nd EC	Q Slu	Idge	- PR	ODU	l								
Parameter	80% of Limit	Limit	Ceiling Limit	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41		<18	<18	<18	<17	<17	<17	<17	<17	<17	<17	<17	<17		0	0
Cadmium		39		<.95	<.95	<.97	<.94	<.95	<.94	<.93	<.94	<.93	<.92	<.93	<.93		0	0
Copper		1500		230	230	220	230	250	240	230	230	230	240	240	240		0	0
Lead		300		28	21	21	26	30	32	43	45	38	27	27	22		0	0
Mercury		17		.23	.18	.13	.24	.21	.16	.28	.16	.26	.24	.21	.21		0	0
Molybdenum	60		75	9	8.5	8	7.8	7.7	7.6	7.6	8.2	8.6	9.3	9.3	9.5	0		0
Nickel				21	22	22	23	26	23	22	20	23	26	25	24	0		0
Selenium				<4.3	<4.3	<4.4	<4.2	<4.2	<4.2	<4.2	4.4	<4.2	<4.1	<4.2	<4.2	0		0
Zinc		2800		420	370	360	370	380	370	400	380	380	360	370	360		0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

- 0 (0 Points)
- 0 1-2 (10 Points)
- o > 2 (15 Points)

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)

o Yes

No (10 points)

• N/A - Did not exceed limits or no HQ limit applies (0 points)

• N/A - Did not land apply biosolids until limit was met (0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0 Exceedence Points

- 0 (0 Points)
- 1 (10 Points)
- 0 > 1 (15 Points)

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

• Yes (20 Points)

• No (0 Points)

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

4. Pathogen Control (per outfall):

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2020 - 06/30/2020
Density:	38
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.

Milwaukee Metro Sew Dist Combined

	5///2021	2020
Outfall Number:	006	
Biosolids Class:	Α	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	01/01/2020 - 01/31/2020	1
Density:	38	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	
Process:	Heat Drying	
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	02/01/2020 - 02/29/2020	1
Density:	0	-
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	03/01/2020 - 03/31/2020	-
Density:	11	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	-
Land Applied:	Yes	-
Process:	Heat Drying	-
	All product complied with either the heat drying	-
Process Description:	requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

Milwaukee Metro Sew Dist Combined

	5/7/2021	2020
Outfall Number:	006]
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	04/01/2020 - 04/30/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	05/01/2020 - 05/31/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	06/01/2020 - 06/30/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

Milwaukee Metro Sew Dist Combined

	5/7/2021
Outfall Number:	006
Biosolids Class:	Α
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2020 - 12/31/2020
Density:	3
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
_and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.
Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2020 - 07/31/2020
Density:	0
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying
	requirement or time-temperature requirement. With either method, moisture content is 10% or lower.
Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	08/01/2020 - 08/31/2020
Density:	0
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying
	With either method, moisture content is 10% or lower.

Milwaukee Metro Sew Dist Combined

	5/ //2021	2020
Outfall Number:	006] [
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	09/01/2020 - 09/30/2020	
Density:	1	
Sample Concentration Amount:	MPN/G TS	
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	10/01/2020 - 10/31/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	11/01/2020 - 11/30/2020	
Density:	3	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

Milwaukee Metro Sew Dist Combined

Limit (if applicable):

Results (if applicable):

Last Updated:	Repor
5/7/2021	2

	5/7/2021	2020
Outfall Number:	006	
Biosolids Class:	A	
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	12/01/2020 - 12/31/2020	
Density:	0	
Sample Concentration Amount:	MPN/G TS	
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	
Process Description:	All product complied with either the heat drying	0
	requirement or time-temperature requirement.	
	With either method, moisture content is 10% or lower.	
	neet the process criteria at the time of land application ocess criteria not met at the time of land application?	n.
• No		
If yes, what action was taken?		
5.1 Verify the following information. If an button under the Options header in the l	ny of the information is incorrect, use the Report Issue eft-side menu.	2
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	90	
Outfall Number:	006	
Method Date:	01/29/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	91.10	
Outfall Number:	006	
Method Date:	02/18/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Option Used To Satisfy Requirement: Requirement Met: Land Applied:		

>90

91.40

Milwaukee Metro Sew Dist Combined

	5/7/2021	202
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	7
Land Applied:	Yes	7
Limit (if applicable):	>90	7
Results (if applicable):	90	
Outfall Number:	006	7
Method Date:	04/24/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.20	
Outfall Number:	006	
Method Date:	05/26/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	91.70	
Outfall Number:	006	
Method Date:	06/13/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.80	
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	90	

Milwaukee Metro Sew Dist Combined

	5/7/2021	202
Outfall Number:	006	
Method Date:	07/08/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.20	
Outfall Number:	006	
Method Date:	08/10/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92	
Outfall Number:	006	
Method Date:	09/12/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.30	
Outfall Number:	006	
Method Date:	10/10/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	94.20	
Outfall Number:	006	
Method Date:	11/22/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.80	

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

	5/7/2021	2020
Outfall Number:	006	
Method Date:	12/30/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.80	o
 5.2 Was the limit exceeded or the proces Yes (40 Points) No If yes, what action was taken? 	s criteria not met at the time of land application?	
 6. Biosolids Storage 6.1 How many days of actual, current biosolids storage capacity did your wastewater treatme facility have either on-site or off-site? >= 180 days (0 Points) 150 - 179 days (10 Points) 120 - 149 days (20 Points) 90 - 119 days (30 Points) < 90 days (40 Points) < 90 days (40 Points) < 80 days (40 Points) < 90 days (40 Points) < 90 days (40 Points) < 121 f you checked N/A above, explain why. 		ent 0
7. Issues 7.1 Describe any outstanding biosolids is	sues with treatment, use or overall management:	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Staffing and Preventative Maintenance (All Treatment Plants)

 Plant Staffing 1.1 Was your wastewater treatment plant adequately staffed last year? Yes No If No, please explain: 	
Could use more help/staff for:	
 1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping? Yes No 	
If No, please explain:	
 2. Preventative Maintenance 2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items? Yes (Continue with question 2) □□ No (40 points)□□ 	
If No, please explain, then go to question 3:	
 2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment? Yes No (10 points) 	0
2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?Yes	
 Paper file system Computer system Both paper and computer system No (10 points) 	
 3. O&M Manual 3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed? Yes No 	
 4. Overall Maintenance /Repairs 4.1 Rate the overall maintenance of your wastewater plant. Excellent Very good Good Good Fair Poor Describe your rating: 	
Maintenance work is addressed on a priority system in a timely manner.	1

Compliance Maintenance Annual Report Milwaukee Metro Sew Dist Combined

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Operator Certification and Education

1.1 Did y¢ ● Yes (0 ○ No (2) Name:	points) RETT P KELLY	n-charge during the	report year?			0
2.1 In acc and subcl treatment	tion Requirements cordance with Chapter NR 114.50 ass(es) were required for the op c plant and what level and subcla	erator-in-charge (O ass(es) were held by	IC) to operat	te the waste pr-in-charge?	water	
Sub Class	SubClass Description	WWTP	0.77	OIC		
		Advanced	OIT	Basic	Advanced	
A1	Suspended Growth Processes	Х			X	
A2	Attached Growth Processes					
A3	Recirculating Media Filters					
A4	Ponds, Lagoons and Natural		Х			
A5	Anaerobic Treatment Of Liquid					
В	Solids Separation	Х			X	
С	Biological Solids/Sludges	Х			X	0
Р	Total Phosphorus	Х			Х	
N	Total Nitrogen					
D	Disinfection	Х			Х	
L	Laboratory					
U	Unique Treatment Systems					
SS	Sanitary Sewage Collection	Х	NA	NA	NA	
 2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS is required 5 years after permit reissuance and is basic level only.) Yes (0 points) No (20 points) 						
 3. Succession Planning 3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)? M One or more additional certified operators on staff An arrangement with another certified operator An arrangement with another community with a certified operator An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year A consultant to serve as your certified operator None of the above (20 points) If "None of the above" is selected, please explain: 				0		

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting Fo 2020	or:
 4.1 If you had a designated operator-in-charge, was the operator-in-cle Education Credits at the following rates? OIT and Basic Certification: Averaging 6 or more CECs per year. Averaging less than 6 CECs per year. 	harge earning Contin	uing	

Advanced Certification:

• Averaging 8 or more CECs per year.

• Averaging less than 8 CECs per year.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Last Updated: Reporting For 5/7/2021 2020
(XXX) XXX-XXXX
nses for your wastewater st reviewed and/or revised? Replacement Fund, etc.) or our wastewater treatment
ETE QUESTION 3]
<pre>* revised? \$ 15,442,080.00 \$ 0.00 \$ 15,442,080.00</pre>
F y ⁱ

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)

+ \$

413,486.00

Milwaukee Metro Sew Dist Combined	Last Update 5/7/2021	d: Reporting 2020	For
3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)	0.	.00	
3.2.6 Ending Balance as of December 31st for CMAR Reporting Year	15,855,566	.00	
All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.			
3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs	s from 3.2.5 a	above.	
3.3 What amount should be in your Replacement Fund? \$ 15,855,	566.00		0
 Please note: If you had a CWFP loan, this amount was originally based of Assistance Agreement (FAA) and should be regularly updated as needed. instructions and an example can be found by clicking the SectionInstruct header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund above greater than the amount that should be in it (#3.3)? Yes 	Further calcu ions link unde	ulation er Info	
O No			
If No, please explain.			
 4. Future Planning 4.1 During the next ten years, will you be involved in formal planning for a or new construction of your treatment facility or collection system? Yes - If Yes, please provide major project information, if not already lis No 			
Project Project Description #		Approximate Construction Year	
1 South Shore Water Reclamation Facility: See South Shore CMAR, Financial Management, Item 4.1			
2 Conveyance Projects: 31 Projects	148,306,444		
3 Jones Island Water Reclamation Facility and Pipelines: 48 Projects	193,783,659	2026	
5. Financial Management General Comments Response #4 above represents planned spending for Conveyance (Collect Reclamation Facility (Jones Island, Pipelines, and South Shore) projects for planning cycle beginning in 2021. Jones Island and Pipeline project counts combined. Additional projects, i.e. Watercourse Improvement and other p service during the same 6-year period will total \$1.5 billion. For a complet and expenditures planned for the period 2021 to 2026, refer to the MMSD	or the District's and costs ha rojects, as we the listing of all	's 6-year ive been ell as debt I projects	
ENERGY EFFICIENCY AND USE			
6. Collection System6.1 Energy Usage6.1.1 Enter the monthly energy usage from the different energy sources:			
COLLECTION SYSTEM PUMPAGE: Total Power Consumed			
Number of Municipally Owned Pump/Lift Stations: 19			

Milwaukee Metro Sew Dist Combined

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	614,950	40,477
February	507,185	22,644
March	474,534	50,211
April	453,182	20,131
May	443,725	7,246
June	480,247	16,076
July	652,207	4,681
August	432,253	5,123
September	411,266	6,909
October	350,687	15,032
November	212,265	20,414
December	440,164	4,824
Total	5,472,665	213,768
Average	456,055	17,814

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply): ☑ Comminution or Screening

Last Updated: Reporting For:

2020

5/7/2021

- Extended Shaft Pumps
- \boxtimes Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- ☑ Variable Speed Drives
- Other:

Gate control motors, heaters

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

o No

• Yes

Year: _____

2018

By Whom:

WE Energies

Describe and Comment:

A level 1 energy assessment was done in 2018 for the Port Washington Pumping Station. The assessment delivered a report that outlined opportunities for reducing energy.

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

In 2021 the District will evaluate the various sites for opportunities to improve our energy efficiency and renewable energy profile through Energy Plan in addition to evaluating energy efficiency during rehabilitation projects. Improved power monitor monitoring, controls, and the installation of energy efficient devices such as VFDs continue to be practiced by the District.

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/ Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/ Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	9,198,942	2,940.00	3,129	5,493.98	1,674	1,386,458
February	8,737,274	2,473.00	3,533	4,757.94	1,836	1,232,772
March	9,300,153	3,609.00	2,577	6,537.31	1,423	1,358,543
April	8,410,034	2,995.00	2,808	5,124.72	1,641	1,281,039
Мау	10,442,693	4,874.00	2,143	6,442.23	1,621	1,620,060
June	8,803,038	3,082.00	2,856	4,617.27	1,907	1,140,787
July	10,492,049	4,147.00	2,530	5,672.10	1,850	1,445,018
August	9,709,446	3,345.00	2,903	6,030.31	1,610	1,323,123
September	8,553,825	2,499.00	3,423	5,627.25	1,520	1,165,588
October	7,444,592	2,343.00	3,177	5,729.82	1,299	1,118,406
November	8,056,820	2,448.00	3,291	5,560.05	1,449	1,694,860
December	8,672,081	2,769.00	3,132	5,538.71	1,566	1,705,440
Total	107,820,947	37,524.00		67,131.69		16,472,094
Average	8,985,079	3,127.00	2,959	5,594.31	1,616	1,372,675

7.2 Energy Related Processes and Equipment

7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):

□ Aerobic Digestion

□ Anaerobic Digestion

□ Biological Phosphorus Removal

- ⊠ Coarse Bubble Diffusers
- Dissolved O2 Monitoring and Aeration Control
- ☑ Effluent Pumping
- ⊠ Fine Bubble Diffusers
- ☑ Influent Pumping
- Mechanical Sludge Processing
- ☑ Nitrification
- SCADA System

In the second se	Last Updated: 5/7/2021	Reporting Fo
 □ UV Disinfection ☑ Variable Speed Drives ☑ Other: 		
Gravity belt thickeners, belt filter presses, biosolids dryers		
7.2.2 Comments:]
7.3 Future Energy Related Equipment		
7.3.1 What energy efficient equipment or practices do you have planned treatment facility?	for the future for	your
The 2035 Vision, adopted in 2010, has two elements: integrated waters climate change adaptation with an emphasis on energy efficiency. The I improvement projects with the Vision to meet a net of 100% of MMSD's renewable energy sources and 80% produced with internal, renewable's was finalized in January 2015 and is being implemented to attain the Di embodied in the 2035 Vision available here: https://www.mmsd.com/al recommendations in the Energy Plan are all either in progress or were se Facilities Plan that was finalized in 2020. The Energy Plan will be renewa treatment plants, we recommend the following examples of energy effice Jones Island Water Reclamation Facility: J01013 – Preliminary Facility Electrical Upgrade J01025 – High & Low Level Screw Pump Replacement J01027 – Primary Clarifier, Sludge, and Scum Piping J02012 – Aeration System Improvements J04035 – Greens Grade Train Replacement and Redundant Train Evalua J04037 – Thickened Sludge Improvements J04046 – D&D Induced Draft Fan Energy Conservation J06061 – Dryer Conversion for Additional LFG P02004 – Landfill Gas System – Metro Landfill M03102 – Biosolids Advanced Facilities Planning M03051 – Alternative Energy Planning (Air Compressors Evaluation)	District aligns cap s energy needs wissources. The Energy istrict's long-term bout-us/2035-vis studied in the 205 ed in 2021. For the ciency projects at	ital rgy Plan goals ion. The io ne
8. Biogas Generation		
 8.1 Do you generate/produce biogas at your facility? ● No ○ Yes 		
If Yes, how is the biogas used (Check all that apply):		
Building Heat		
Process Heat Generate Electricity		
□ Other:		
]
9. Energy Efficiency Study		

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting For 2020
9.1 Has an Energy Study been performed for your treatment facility? • No		
• Yes		
🛛 Entire facility		
Year: 2017		
By Whom:		
University of Wisconsin - Milwaukee Industrial Assessment Center		
Describe and Comment:		
Assessment covered equipment drives, lighting, and lubricant use thr facility.	oughout the entir	e
Part of the facility		
Year:		
By Whom:		
Short Elliot Hendrickson and Poyry (2015), Brabazon and Focus on Ene	ergy (2020)	
Describe and Comment:		
MACT assessment was completed of the boilers in 2015. High pressur was completed in 2020. Many other processes throughout the facility are monitored for efficiency internally.	•	· · · · · ·

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

	pacity, Management, Operation, and Maintenance (CMOM) Program To you have a CMOM program that is being implemented?
• Ye	5
o No	
If N	o, explain:
	to you have a CMOM program that contains all the applicable components and items ding to Wisc. Adm Code NR 210.23 (4)?
• Ye	5
o No	(30 points)
0 N/	Α
If N	o or N/A, explain:
comp 🛛 G	Does your CMOM program contain the following components and items? (check the conents and items that apply) bals [NR 210.23 (4)(a)]
Des	cribe the major goals you had for your collection system last year:
CN 1. 2. sta 3. 4. 5. 6. 7. 8. 9. ma 10 for an 11 of 12 res	e MMSD CMOM goals related to the conveyance and storage system as presented in the IOM Program Annual Report for 2020 are: Continue the support of the CMOM Program within the District organizational structure. Communicate the goals and objectives of the CMOM Program to internal and external ikeholders, monitor the CMOM Program, and institute program modifications. Continue to maintain adequate financial planning. Continue to comply with regulatory requirements. Continue to support and monitor the regional CMOM program. Continue to maintain a safe work environment and facilities and also sustain a competent rkforce. Establish CMOM program elements specific to minimizing the number and volume of CSOs. Continue to implement and support the Wet Weather Peak Flow Management Program. Where possible, establish additional practices to prevent sanitary sewer overflows (SSOs), intain or improve system performance, and avoid preventable failures. Continue to establish and document level of protection, design, and performance standards new conveyance assets constructed in the District service area, and consider documented d predicted changes in climate. Minimize the cost of conveyance asset ownership while maintaining necessary stewardship assets and achieving defined protection levels. Enhance District level of knowledge and understanding of wet weather flows and system sponse to precipitation and other factors. Promptly and accurately respond to customer inquiries.
	you accomplish them?
	res
• `	
• ` 0	No, explain:

Does this chapter of your CMOM include:

☑ Organizational structure and positions (eg. organizational chart and position descriptions)

 \boxtimes Internal and external lines of communication responsibilities

 \boxtimes Person(s) responsible for reporting overflow events to the department and the public

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting 2020	
⊠ Legal Authority [NR 210.23 (4) (c)]			
What is the legally binding document that regulates the use of your sewe	er system?		
If you have a Sewer Use Ordinance or other similar document, when was revised? (MM/DD/YYYY) 2018-01-22	it last reviewed	and	
Does your sewer use ordinance or other legally binding document addres	s the following:		
New sewer and building sewer design, construction, installation, testi	ng and inspectio	n	
oxtimes Rehabilitated sewer and lift station installation, testing and inspection	1		
Sewage flows satellite system and large private users are monitored a necessary	and controlled, a	S	
☑ Fat, oil and grease control			
\boxtimes Enforcement procedures for sewer use non-compliance			
Operation and Maintenance [NR 210.23 (4) (d)] Does your operation and maintenance program and equipment include the second se	e following:		
\boxtimes Equipment and replacement part inventories	le following.		
Up-to-date sewer system map			
\boxtimes A management system (computer database and/or file system) for co	llection system		
_ information for O&M activities, investigation and rehabilitation	·		
\boxtimes A description of routine operation and maintenance activities (see que	estion 2 below)		
Capacity assessment program			
Basement back assessment and correction			
\boxtimes Regular O&M training			
\boxtimes Design and Performance Provisions [NR 210.23 (4) (e)] \Box	ion and increat	ion of	0
What standards and procedures are established for the design, construct the sewer collection system, including building sewers and interceptor se property?			
State Plumbing Code, DNR NR 110 Standards and/or local Municipal (Code Reauireme	nts	
☑ Construction, Inspection, and Testing			
□ Others:			
L ☑ Overflow Emergency Response Plan [NR 210.23 (4) (f)]□□			
Does your emergency response capability include:			
Responsible personnel communication procedures			
Response order, timing and clean-up			
Public notification protocols			
🛛 Training			
oxtimes Emergency operation protocols and implementation procedures			
$oxtimes$ Annual Self-Auditing of your CMOM Program [NR 210.23 (5)] $\Box\Box$			
\Box Special Studies Last Year (check only those that apply):			
Infiltration/Inflow (I/I) Analysis			
Sewer System Evaluation Survey (SSES)			
Sewer Evaluation and Capacity Managment Plan (SECAP)			
Lift Station Evaluation Report Otherway			
Others:			
2. Operation and Maintenance			Γ
2.1 Did your sanitary sewer collection system maintenance program include	de the following		

maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning 0.33 % of system/year Root removal 0 % of system/year Flow monitoring 85 % of system/year Smoke testing 0 % of system/year Sewer line 0 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Milwaukee Metro Sew Dist	Combined		Last Updated: 5/7/2021	Reporting For 2020
Root removal0% of system/yearFlow monitoring85% of system/yearSmoke testing0% of system/yearSewer line*********************************	Cleaning	0.33	3 % of system/year		
Smoke testing 0 % of system/year Sewer line 4.36 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	•				
Smoke testing 0 % of system/year Sewer line 4.36 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Flow monitoring	85	% of system/year		
televising4.36% of system/yearManholeinspections0% of system/yearLift station O&M19# per L.S./yearManholerehabilitation0% of manholes rehabbedMainlinerehabilitation0% of sewer lines rehabbedPrivate sewer	Smoke testing	0	% of system/year		
Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Sewer line				
inspections0% of system/yearLift station O&M19# per L.S./yearManhole rehabilitation0% of manholes rehabbedMainline rehabilitation0% of sewer lines rehabbedPrivate sewer0% of sewer lines rehabbed	televising	4.36	% of system/year		
Lift station O&M 19 # per L.S./year Manhole rehabilitation 0 % of manholes rehabbed Mainline rehabilitation 0 % of sewer lines rehabbed Private sewer			% of system/year		
Manhole rehabilitation 0 % of manholes rehabbed Mainline rehabilitation 0 % of sewer lines rehabbed Private sewer	•	19			
rehabilitation 0 % of manholes rehabbed Mainline		19			
rehabilitation 0 % of sewer lines rehabbed Private sewer		0	% of manholes rehabbed		
Private sewer					
	rehabilitation	0	% of sewer lines rehabbe	d	
	Private sewer inspections	0.09	% of system/year		
Private sewer I/I	•	0.05	to or systemy year		
removal 0.39 % of private services	-	0.39	% of private services		
River or water	River or water				
crossings 0 % of pipe crossings evaluated or maintained	•				ned
Please include additional comments about your sanitary sewer collection system below:	Please include additional	comments about your	r sanitary sewer collection	system below:	
 Performance Indicators 3.1 Provide the following collection system and flow information for the past year. 		collection system and (flow information for the pa	ct voor	
41.01 Total actual amount of precipitation last year in inches					
34.76 Annual average precipitation (for your location)	34.76 Annı	ual average precipitati	ion (for your location)		
302 Miles of sanitary sewer	302 Miles	s of sanitary sewer			
19 Number of lift stations		ber of lift stations			
0 Number of lift station failures	0 Num	ber of lift station failu	ires		
0 Number of sewer pipe failures	0 Num	0 Number of sewer pipe failures			
0 Number of basement backup occurrences	0 Num	ber of basement back	kup occurrences		
0 Number of complaints	0 Num	ber of complaints			
102 Average daily flow in MGD (if available)	102 Aver	age daily flow in MGD) (if available)		
157 Peak monthly flow in MGD (if available)	157 Peak	monthly flow in MGD) (if available)		
386 Peak hourly flow in MGD (if available)	386 Peak	hourly flow in MGD (if available)		
3.2 Performance ratios for the past year:					
0.00 Lift station failures (failures/year)		•			
0.00 Sewer pipe failures (pipe failures/sewer mile/yr)					
0.03 Sanitary sewer overflows (number/sewer mile/yr)					
0.00 Basement backups (number/sewer mile)			-		
0.00 Complaints (number/sewer mile)				N N	
1.5 Peaking factor ratio (Peak Monthly:Annual Daily Avg))	
3.8 Peaking factor ratio (Peak Hourly:Annual Daily Avg)	3.8 Peak	ing factor ratio (Peak	nouny:Annual Dally AVg)		

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

	Overflows			
LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **				
	Date	Location	Cause	Estimated Volume
0	5/17/2020 5:00:00 PM - 5/17/2020 8:00:00 PM	North Broadmoor Road	Rain	0.666
1	5/17/2020 4:40:00 PM - 5/17/2020 10:40:00 PM	North River Road and W Green Tree Road	Rain	9.065
2	5/17/2020 4:59:00 PM - 5/17/2020 6:41:00 PM	West Manitoba Street and south 35th Street	Rain	1.335
3	5/17/2020 4:46:00 PM - 5/17/2020 8:32:00 PM	West Roosevelt Drive and North 35th Street	Rain	3.06
4	5/17/2020 4:30:00 PM - 5/17/2020 5:15:00 PM	S 79th St extended at W Dickinson State Fair Parking Lot	Rain	0.005
5	5/17/2020 4:53:00 PM - 5/17/2020 5:30:00 PM	S 74th St and W Oklahoma Ave	Rain	0.04
6	5/17/2020 5:20:00 PM - 5/17/2020 6:20:00 PM	North Lake Drive, North of East Ravine Lane	Rain	0.022
7	5/17/2020 4:00:00 PM - 5/19/2020 9:00:00 PM	Please see attached table for locations of discharges	Rain	2100
8	7/10/2020 12:52:00 AM - 7/10/2020 4:35:00 AM	Please see attached table for location of discharges	Rain	7.1
9	8/2/2020 9:47:00 PM - 8/2/2020 11:47:00 PM	S 74th St and W Oklahoma Ave	Rain	0.175

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

What actions were taken, or are underway, to reduce or eliminate SSO or TFO occurences in the future?

The District and Veolia Water Milwaukee will continue to operate the conveyance system, storage system, and the water reclamation facilities in a manner to prevent separate sewer overflows and to maximum the capture of combined sewer overflows. The District's Wet Weather Peak Flow Management Program evaluates infiltration and inflow in our service area to identify areas to target for improvements. To further reduce the risk of basement backups and separate sewer overflows, the District has funded \$31M of infiltration and inflow reduction projects throughout our service area over the last ten years. In 2020 the Private Property Inflow and Infiltration Reduction Program was made a permanent component of the annual budget. The District has started design on a project to reduce overflows from the Mill Road Relief Sewer at the North Broadmoor Road and North River Road/W Green Tree Road sites. Design continues to address overflows from the Roosevelt MIS at Roosevelt Drive and North 35th Street. The District also has a SSO Elimination Study underway to determine what could be done to reduce or eliminate overflows at each SSO site.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- o No

If Yes, please describe:

Yes; Infiltration and inflow (I/I) in satellite municipal collection systems is the primary contributor of peak flows from the separate sewer area of the MMSD conveyance system and is one of the primary causes of separate sewer overflows from the MMSD system.

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year? • Yes

• No

If Yes, please describe:

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:

MMSD believes that I/I has been reduced over the past year. Twenty-five of the twenty-eight member municipalities have PPI/I reduction projects completed or in progress in the first 11 years of the PPI/I Program. Many of the municipalities also completed public sector I/I reduction projects. MMSD has adopted peak flow performance standards in its Chapter 3 revisions which require tributary municipalities to reduce I/I. There were no new metersheds identified as noncompliant in 2020.

5.4 What is being done to address infiltration/inflow in your collection system?

MMSD continues sewer rehab through Operation and Maintenance, and Capital programs. MMSD is continuing to work with satellite municipalities to reduce inflow and infiltration with the wet weather peak flow management program. Throughout 2020 the District collected data from 194 permanent meters and 153 portable meters and also 150 surcharge level indicators in strategically selected sanitary sewers within its service area to more accurately measure wastewater flows under both dry and wet weather conditions. The measured peak flows are compared to the allowable peak flows listed in Chapter 3 of the District's rules. Action will be taken for any metersheds that are identified as exceeding the allowable peak flows. MMSD has implemented the Private Property Inflow and Infiltration (PPI/I) Reduction Program in 2011 to support municipal work in reducing I/I from local private property sources. Twenty-five of the twenty-eight member municipalities have PPI/I reduction projects completed or in progress in the 11th year of the PPI/I Program. Additionally, MMSD installed 36 Micrometers to enhance I/I data collection. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. In addition, all municipalities have developed and implemented CMOM and Asset Management programs. MMSD also has a Green Infrastructure (GI) initiative program that is aimed at capturing 740 million gallons of water every time it rains by the year 2035. In 2020 MMSD started a \$20M strategic green infrastructure installation program, called the Fresh Coast Protection Partnership (FCPP). This program is a public private partnership with Corvias; its goals center on ramping up the pace at which GI is installed within our GI Service area. The FCPP will work towards the goal of driving down the per-gallon total cost of GI, while cost effectively building local capacity and expertise in GI practices and producing the greatest impact on the District's local community and conveyance system. In 2020 alone, MMSD built 3,000,000 gallons worth of green infrastructure capture and by the end of 2020, the MMSD had built enough projects to total 37 MG of GI storage capacity each time it rains.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Grading Summary

WPDES No: 0036820

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS 32 128			128	
GRADE POINT AVERAGE (GPA) = 4.00				

Notes:

A = Voluntary Range (Response Optional)

B = Voluntary Range (Response Optional)

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

Milwaukee Metro Sew Dist Combined	Las
	E.

Resolution or Owner's Statement

Name of Governing	
Body or Owner:	
	MMSD Commission
Date of Resolution or	
Action Taken:	
	2021-06-28
Resolution Number:	
Date of Submittal:	
	THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR
Influent Flow and Loadings	grade A or B. Required for grade C, D, or F):
Effluent Quality: BOD: Gra	de = A
Effluent Quality: TSS: Grad	
Effluent Quality: Phosphore	us: Grade = A
Biosolids Quality and Mana	gement: Grade – A
Staffing: Grade = A	
Operator Certification: Gra	
Financial Management: Gra	ade = A
Collection Systems: Grade	
	onse required for Collection Systems if SSOs were reported)
	consistently meet CSO Performance Standards for water quality based
	in our permit. As stated in the current WPDES Permit (Section 4.3.3
	submitted the documentation that demonstrated implementation of each
	rols in accordance with Section IIB of the U.S. EPA CSO Control Policy.
	this documentation to the Department as an element of its 2020
Facilities Plan, approved b	by the Department on December 26, 2007." Not content with just
	owever, the District has a goal of 0 CSOs as targeted in our 2035 Vision
	6-year Long Range Financing Plan includes \$1.5 billion (\$858 million in
	in debt service) to maintain and improve the regional capital
	protect public health, homes, businesses and waterways. This includes
	operty sources of excess water that can overwhelm sanitary sewer
	committed \$4 billion for clean water infrastructure in previous years, nt is vital for optimizing reliability and performance of new and aging
	nt plants, sewers, and flood management facilities.

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) **G.P.A. = 4.00**

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 2020

Influent Flow and Loading

Total Number of Points

Influent No. Influent Monthly 702 Average Flow, MGD		x	Influent Mor Average Bo Concentration) DC		x	8.34	=	Influent Monthly Average BOD Loading, lbs/day	
January	1	L4.7097	x 222 x 8.34 =		212,012					
February	10)2.4828	х	239			х	8.34	=	203,951
March	1	L4.9677	х	224			х	8.34	=	214,345
April	9	9.2000	х	262			х	8.34	=	216,484
Мау	14	46.6452	х	180			х	8.34	=	220,578
June	9	0.9000	х	272			х	8.34	=	206,205
July	9	0.0645	х	358			х	8.34	=	269,198
August	8	2.7742	х	381			х	8.34	=	262,996
September	7	9.4333	х	348			х	8.34	=	230,762
October	7	6.0968	x	372			x	8.34	=	236,048
November	6	3.8667	x	400			x	8.34	=	212,882
December	7	1.7097	x	368			x	8.34	=	220,317
lax Month De	esign Flo	w, MGD		esign Factor 170	x x x		90 10		=	% of Design 153 170
Max Month De Design BOD, I	lbs/day			170 291000	x x x x	90%	10 90 10	0) 0	= =	153 170 261900 291000
Design BOD, 2.2 Verify the and score:	lbs/day	of times the Number of tir flow was grea	flow nes ater	170 291000	x x x ded	Num BOD	10 90 10 or ber wa	0) 0	= = of de es	153 170 261900
Design BOD, I 2.2 Verify the and score: January	lbs/day number Months of Influent	of times the Number of tir flow was grea than 90% o 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0	x x x ded	Num BOD	10 9(10 or ber wa	0 0 100% c of time s greate o of des 0	= = of de es	153 170 261900 291000 esign, points earned, Number of times BOD was greater than 100% of design 0
Design BOD, 1 2.2 Verify the and score: January February	lbs/day number Months of Influent 1	of times the Number of tir flow was grea than 90% o 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0	x x x ded	Num BOD	10 90 10 or ber wa	0 0 100% c of time s greate o of des 0 0	= = of de es	153 170 261900 291000 esign, points earned, Number of times BOD was greater than 100% of design 0 0
Design BOD, I 2.2 Verify the and score: January February March	lbs/day number Months of Influent 1 1	of times the Number of tim flow was great than 90% of 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 90%	0 0 100% c of time s greate o of des 0 0 0	= = of de es	153 170 261900 291000 esign, points earned, sign, points earned, BOD was greater than 100% of design 0 0 0
Design BOD, I 2.2 Verify the and score: January January February March April	lbs/day number Months of Influent 1 1 1 1	Number of tim flow was greated than 90% of 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa	0 0 100% c of time s greate o of des 0 0 0 0	= = of de es	153 170 261900 291000 esign, points earned, sign, points earned, bod was greater than 100% of design 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March	lbs/day number Months of Influent 1 1	of times the Number of tim flow was great than 90% of 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa	0 0 100% c of time s greate o of des 0 0 0	= = of de es	153 170 261900 291000 esign, points earned, sign, points earned, BOD was greater than 100% of design 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May	bs/day number Months of Influent 1 1 1 1 1	of times the Number of tir flow was grea than 90% o 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 90%	0 0 100% c of time s greate o of des 0 0 0 0 0	= = of de es	153 170 261900 291000 esign, points earned, solution of times BOD was greater than 100% of design 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June	lbs/day number Months of Influent 1 1 1 1 1 1 1	r of times the Number of times the flow was greated than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 9(10 or ber wa	0 0 100% c f of time s greate o of des 0 0 0 0 0 0 0 0	= = of de es	153 170 261900 291000 esign, points earned, sign, points earned, esign, points earned, sign, points earned, esign BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June July August September	bs/day number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r of times the Number of tim flow was great than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 90%	0 0 100% c 0 of time s greate o of des 0 0 0 0 0 0 1 1 0	= = of de es	153 170 261900 291000 esign, points earned, sign, points earned, esign, points earned, sign, points earned, o b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2.2 Verify the and score: January February March April May June July August September October	bs/day number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of times the Number of tim flow was great than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 90%	0 0 100% c 100% c c of time s greate o of des 0 0 0 0 0 0 0 1 1 1 0 0	= = of de	153 170 261900 291000 esign, points earned, Solution Searned, Number of times BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June July August September October November	bs/day number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r of times the Number of tim flow was greated than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 00%	0 0 100% c 100% c c of time s greate o of des 0 0 0 0 0 0 0 1 1 1 0 0 0 0	= = of de	153 170 261900 291000 esign, points earned, sign, points earned, Number of times BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June July August September October November December	bs/day number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r of times the Number of tim flow was great than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 0r ber wa 90%	0 0 100% c 0 f time s greate o of des 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	= = of de	153 170 261900 291000 esign, points earned, Number of times BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June July August September October November December Points per ea	lbs/day e number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r of times the Number of tim flow was greated than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 or ber wa 00%	0 0 100% c 100% c c of time s greate o of des 0 0 0 0 0 0 1 1 1 0 0 0 0 3	= = of de	153 170 261900 291000 esign, points earned, Number of times BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Design BOD, I 2.2 Verify the and score: January February March April May June July August September October November December	lbs/day e number Months of Influent 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r of times the Number of tim flow was great than 90% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	flow nes ater	170 291000 and BOD excee Number of time flow was greate than 100% of 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x ded	Num BOD	10 90 10 07 ber wa 00%	0 0 100% c 0 f time s greate o of des 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	= = of de	153 170 261900 291000 esign, points earned, Number of times BOD was greater than 100% of design 0 0 0 0 0 0 0 0 0 0 0 0 0

6

SOUTH SHORE

Milwaukee Metro Sew	Dist Combined		Last Updated: 5/7/2021	Reporting For 2020
	nter last calibration 020-04-25	d in the last year? date (MM/DD/YYYY)		
	ity have a sewer use I pollutants ((C)BOE I users, hauled wast	e ordinance that limited or prohib), SS, or pH) or toxic substances e, or residences?		
	n: occurred. The Distric e semi-annual and a	ance? t responds to violations accordin nnual Pretreatment Program rep		
5. Septage Receiving 5.1 Did you have requ Septic Tanks	lests to receive sept Holding Tanks			
o Yes	o Yes	o Yes		
● No	• No	• No		
 5.2 Did you receive se Septic Tanks Yes No Holding Tanks Yes 	ptage at your faclity	/? If yes, indicate volume in gallo] gallons] gallons	ons.	
 No Grease Traps Yes No 	the above, please e	gallons gallons explain if plant performance is af	fected when rece	eiving
or hazardous situation commercial or industri o Yes • No	is in the sewer syste ial discharges in the	al problems, permit violations, bi em or treatment plant that were last year? ommunity's response.		oncerns,

Last Updated: Reporting For: 5/7/2021 **2020**

• No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.

Total Points Generated	6
Score (100 - Total Points Generated)	94
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No.	Monthly	90% of	Effluent Monthly		Permit Limit	90% Permit				
001	Average	Permit Limit	Average (mg/L)	Discharge	Exceedance	Limit	1			
	Limit (mg/L)	> 10 (mg/L)		with a Limit		Exceedance				
January	30	27	13	1	0	0	1			
February	30	27	13	1	0	0	1			
March	30	27	14	1	0	0	1			
April										
May 30 27 11 1 0 0										
	June 30 27 13 1 0 0									
July	30	27	14	1	0	0				
August	30	27	12	1	0	0				
September	30	27	11	1	0	0				
October	30	27	13	1	0	0	0			
November	30	27	13	1	0	0				
December	30	27	15	1	0	0	1			
		* Eq	uals limit if limit is	<= 10	-		1			
Months of d	ischarge/yr			12						
Points per e	ach exceedanc	ce with 12 mor	nths of discharge		7	3				
Exceedance	S				0	0				
Points					0	0	1			
Total numl	ber of points				-	0	1			
NOTE: For	systems that d	discharge inter	mittently to state	waters, the po	oints per month	nly				
			sed upon a multipl							
			ample: For a wast	ewater facility	discharging or	nly 6 months				
	, the multiplications occur		on was taken to re	aain complian	ce?					
				igani compilari			1			
							<u> </u>			
2. Flow Meter				_						
2.1 Was the● Yes			ed in the last year							
• res		-10-19	n date (MM/DD/Y)]	(11)						
○ No	2020	10 19]							
If No, pleas	se evolain:									
							1			
3. Treatmen 3.1 What pr		, were experie	nced over the last	year that thre	eatened treatm	ent?				
Evidence	of industrial di	scharges exist	ed (foam, DO dep	ressions, etc.)	that impacted	treatment.				
4. Other Mon	nitoring and Lir	nits					-			
4.1 At any t	ime in the pas	t year was the	re an exceedance		nit for any othe	er pollutants				
such as chlo o Yes	orides, pH, resi	idual chlorine,	fecal coliform, or	metals?						

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

If Yes, please explain:

4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?

o Yes

• No

If Yes, please explain:

4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?

o Yes

o No

• N/A

Please explain unless not applicable:

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Effluent Quality and Plant Performance (Total Suspended Solids)

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance	
January	30	27	9	1	0	0	
February	30	27	8	1	0	0	
March	30	27	9	1	0	0	
April	30	27	7	1	0	0	
May	30	27	8	1	0	0	
June	30	27	8	1	0	0	
July	30	27	12	1	0	0	
August	30	1	0	0			
September	eptember 30 27 9 1					0	
October	30	27	11	1	0	0	
November	30	27	10	1	0	0	
December	30	27	10	1	0	0	
		* Eq	uals limit if limit is	<= 10			
Months of D	ischarge/yr			12			
Points per	each exceed	ance with 12	months of disch	arge:	7	3	
Exceedance	S				0	0	
Points 0 0							
Total Number of Points 0							
exceedance the numbe	e for this section r of months of	on shall be bas discharge.	mittently to state sed upon a multipl charging only 6 mo	ication factor o	of 12 months d	livided by	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Effluent Quality and Plant Performance (Ammonia - NH3)

1. Effluent Ammonia Results

1.1 Verify the following monthly and weekly average effluent values, exceedances and points for ammonia

Outfall No.	Monthly	Weekly	Effluent	Monthly	Effluent	Effluent	Effluent	Effluent	Weekly
001	Average NH3	Average NH3	Monthly Average	Permit Limit	Weekly Average	Weekly Average	Weekly Average	Weekly	Permit Limit
	Limit	Limit	NH3	Exceed				Average for Week	Exceed
	(mg/L)	(mg/L)	(mg/L)	ance	1	2	3	4	ance
January	27		.3631612	9 0					
February	27		.6503103	45 0					
March	27		.8262580	65 0					
April	27		.5947666	67 0					
May									
June									
July									
August									
September									
October									
November	27		2.024233	833 0					
December	27		.5471612	90					
Points per e	ach excee	dance of N	Monthly av	/erage:					10
Exceedance	s, Monthly	/:							0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):							e):	2.5	
Exceedances, Weekly:								0	
Points:									0
Total Number of Points							0		
NOTE: Lim monthly av will be true limit does 1.2 If any v	verage lim e even if a not exist, t	it exists it weekly lir the weekly	will be us nit also ex / limit will	ed to dete ists. Whe be used t	ermine exc n a weekly o determin	eedances average ne exceeda	and gener limit exister ances and	rate points s and a mo	. This onthly

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results	
--------------------------------	--

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1	0.262	1	0
February	1	0.314	1	0
March	1	0.569	1	0
April	1	0.259	1	0
Мау	1	0.243	1	0
June	1	0.528	1	0
July	1	0.509	1	0
August	1	0.588	1	0
September	1	0.721	1	0
October	1	0.643	1	0
November	1	0.542	1	0
December	1	0.462	1	0
Months of Discharg	ge/yr		12	
Points per each	exceedance with 1	2 months of dischar	ge:	10
Exceedances				0
Total Number of	Points			0
exceedance for th the number of mo	is section shall be band the band be band be band by band band band band band band band band	rmittently to waters o sed upon a multiplicat charging only 6 month	ion factor of 12 mor s of the year, the m	nths divided by

1.2 If any violations occurred, what action was taken to regain compliance?

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 2020

Biosolids Quality and Management

1. Biosolid																			
1.1 How of Land a ∠ Land a Public! Hauleo Landfi Incine Other NOTE: If as lagoon 1.1.1 If y	lid yo applie ly Dis d to a lled rated you o ns, re you ch	u use d unc tribut nothe did no ed be necke	e or dis ler you ed Exe er perr ot rem eds, re d Othe	ove l ceptionitte	rmit onal (d faci bioso lating ease	Quali ility lids f g san desc	rom d filt	osoli your ers,	ds syste etc.	em, I	pleas	e des	scribe	-	-				
Biosoli biosoli applica 2020.	ds fro tion f	m Jor From (nes Isl Outfall	and 004	WRF, in 20	heat 020.	t drie 755	ed, ar dry t	nd pu ons c	blicly	y dist <e fro<="" td=""><td>ribut m O</td><td>ed as utfall</td><td>s EQ</td><td>bioso</td><td>olids. I</td><td>No lan</td><td>d</td><td></td></e>	ribut m O	ed as utfall	s EQ	bioso	olids. I	No lan	d	
2. Land Ap 2.1 Last Y 2.1.1 Ho 25578.8 2.1.2 Ho 160.4 2.2 If you	'ear's w ma 30 acr w ma	Appr ny ac res ny ac	oved a res di- res di- acro	d you d you es	ı hav ı use	e? ?					ion n	eeds,	. wha	at act	ion v	vas ta	ken?		
2.3 Did yo o Yes (30 • No 2.4 Have years? • Yes o No (10 o N/A) poir all the	nts) e site		-								-						ar?	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eacher years? Outfall No Parameter 	D poir all the point s Meta f bios ach ou year.	nts) e site ts) als solids utfall - Sou H.Q. Limit	s you outfal tested uth Sh Ceiling Limit	used Is in , ver ore (last your ify th	year WPD we bic	for la PES p psolic	and a	applic t: etal q	catior	n bee	n soi	l tesi	bur fa	the	previo durin	g the	last Ceiling	0
 Yes (30 No 2.4 Have years? Yes No (10 N/A 3. Biosolide Number of 3.1 For eaclendary Outfall No) poin all the point s Meta f bios ach ou /ear. . 005 80% of	e site ts) als solids utfall - Sou H.Q.	s you outfal tested uth Sh Ceiling	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	y val	n soi ues f	l test	bur fa	cility	previo durin	g the	last Ceiling	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eacher year Outfall No Parameter) poin all the point s Meta f bios ach ou /ear. . 005 80% of	nts) e site ts) als solids utfall - Sou H.Q. Limit	s you outfal tested uth Sh Ceiling Limit	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	y val	n soi ues f	l test	bur fa	cility	previo durin	g the	last Ceiling	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eaclendar year Outfall No Parameter Arsenic Cadmium) poin all the point s Meta f bios ach ou /ear. . 005 80% of	nts) e site ts) als colids utfall - Sou H.Q. Limit 41	s you outfal tested Limit 75 85	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	y val	n soi ues f	l test	bur fa	cility	previo durin	g the High Quality	last Ceiling 0	0
 Yes (30) No 2.4 Have years? Yes Yes No (10) N/A Biosolide Number of 3.1 For eacher year Outfall No Parameter Arsenic Cadmium Copper) poin all the point s Meta f bios ach ou /ear. . 005 80% of	nts) e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500	s you outfal tested Limit 75 85 4300	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	y val Aug 0 1.65 445	n soi ues f	l test	bur fa	cility	previo durin	g the Quality 0 0	last Ceiling 0 0	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eacher years Outfall No Parameter Arsenic Cadmium Copper Lead) poin all the point s Meta f bios ach ou /ear. . 005 80% of	e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500 300	s you outfal tested Limit 75 85 4300 840	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	y val Aug 0 1.65 445 54.5	n soi ues f	l test	bur fa	cility	previo durin	g the High Quality 0 0 0	Ceiling 0 0 0	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolids Number of 3.1 For each calendar years Outfall No Parameter Arsenic Cadmium Copper Lead Mercury 	D point all the point s Meta f bios ach ou /ear. . 005 80% of Limit	nts) e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500	s you outfal tested th Sh Ceiling Limit 75 85 4300 840 57	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	Aug 0 1.65 445 54.5 .415	n soi ues f	l test	bur fa	cility	durin	g the Quality 0 0	Ceiling 0 0 0 0 0	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eacher Outfall No Parameter Arsenic Cadmium Copper Lead Mercury Molybdenum 	D poin all the point s Meta f bios ach ou /ear. . 005 80% of Limit	e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500 300	s you outfal tested Limit 75 85 4300 840 57 75	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	Aug 0 1.65 445 54.5 .415 16	n soi ues f	l test	bur fa	cility	durin 80% Value	g the High Quality 0 0 0	Ceiling 0 0 0 0 0 0	0
 Yes (30) No 2.4 Have years? Yes Yes No (10) N/A Biosolide Rumber of 3.1 For each calendar years Outfall No Parameter Arsenic Cadmium Copper Lead 	D point all the point s Meta f bios ach ou /ear. . 005 80% of Limit	e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500 300	s you outfal tested th Sh Ceiling Limit 75 85 4300 840 57	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	Aug 0 1.65 445 54.5 .415	n soi ues f	l test	bur fa	cility	durin	g the High Quality 0 0 0	Ceiling 0 0 0 0 0	0
 Yes (30) No 2.4 Have years? Yes No (10) N/A Biosolide Number of 3.1 For eacher Outfall No Parameter Arsenic Cadmium Copper Lead Mercury Molybdenum 	D poin all the point s Meta f bios ach ou /ear. . 005 80% of Limit	e site ts) als colids utfall - Sou H.Q. Limit 41 39 1500 300	s you outfal tested Limit 75 85 4300 840 57 75	used Is in , ver ore (last your ify th	year WPD be bic Slude	for la PES p psolic	ermi Is me	applic t: etal q	ualit	Aug 0 1.65 445 54.5 .415 16	n soi ues f	l test	bur fa	cility	durin 80% Value	g the High Quality 0 0 0	Ceiling 0 0 0 0 0 0	0

ilwaukee Metro Sew Dist Combin	ed	Last Updated: 5/7/2021	Reporting 2020	
<pre>molybdenum, nickel, or selenium = Exceedence Points 0 (0 Points) 0 1-2 (10 Points) 0 > 2 (15 Points) 3.1.2 If you exceeded the high quate each land application site? (check at 0 Yes 0 No (10 points)</pre>	lity limits, did you cumulatively track the policable box)			
Exceedence Points • 0 (0 Points) • 1 (10 Points) • > 1 (15 Points) 3.1.4 Were biosolids land applied w • Yes (20 Points) • No (0 Points)	s until limit was met (0 points) netals exceeded the ceiling limits = 0 which exceeded the ceiling limit? y or ceiling) was exceeded at any time,	what action wa	s taken?	o
 Pathogen Control (per outfall): 4.1 Verify the following information. under the Options header in the left 	If any information is incorrect, use the -side menu.	Report Issue b	utton	
Outfall Number:	005			
Biosolids Class:	В			
Bacteria Type and Limit:	Fecal Coliform			
Sample Dates:	11/01/2020 - 12/31/2020			
Density:	4,600			
Sample Concentration Amount:	CFU/G TS			
Requirement Met:	Yes			
Land Applied:	Yes			
Process:	Aerobic Digestion			
Process Description:	The geometric mean 1370 MPN/gT	S of 7 discrote		

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

0

	5/7/2021	2020
Outfall Number:	005	
Biosolids Class:	В	1
Bacteria Type and Limit:	Fecal Coliform	1 1
Sample Dates:	11/01/2020 - 12/31/2020	1 1
Density:	4,500	1 1
Sample Concentration Amount:	CFU/G TS	1 1
Requirement Met:	Yes	
Land Applied:	Yes	1 1
Process:	Anaerobic Digestion	1 _
Process Description:	The geometric mean 652 MPN/gTS, of 7 discrete samples is less than 2,000,000 MPN/gTS.	0

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application. 4.2.1 Was the limit exceeded or the process criteria not met at the time of land application? • Yes (40 Points)

No

If yes, what action was taken?

5. Vector Attraction Reduction (per outfall):

5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	005
Method Date:	08/10/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	62.50

Outfall Number:	005
Method Date:	08/10/2020
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	57

5.2 Was the limit exceeded or the process criteria not met at the time of land application? • Yes (40 Points)

• No

If yes, what action was taken?

6. Biosolids Storage

6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?

• >= 180 days (0 Points)

150 - 179 days (10 Points)

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting F 2020
 0 120 - 149 days (20 Points) 0 90 - 119 days (30 Points) 0 < 90 days (40 Points) 0 N/A (0 Points) 6.2 If you checked N/A above, explain why. 		0
 7. Issues 7.1 Describe any outstanding biosolids issues with treatment, use or overa 	ll management:	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Staffing and Preventative Maintenance (All Treatment Plants)

 Plant Staffing 1.1 Was your wastewater treatment plant adequately staffed last year? Yes No If No, please explain: 	
Could use more help/staff for:	
 1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping? Yes No 	
If No, please explain:	
 2. Preventative Maintenance 2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items? Yes (Continue with question 2) □□ No (40 points)□□ 	
If No, please explain, then go to question 3:	
 2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment? Yes No (10 points) 	0
2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?Yes	
 Paper file system Computer system Both paper and computer system No (10 points) 	
 3. O&M Manual 3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed? Yes No 	
 4. Overall Maintenance /Repairs 4.1 Rate the overall maintenance of your wastewater plant. Excellent Very good Good Good Fair Poor Describe your rating: 	
Maintenance work is addressed on a priority system in a timely manner.	1

Compliance Maintenance Annual Report Milwaukee Metro Sew Dist Combined

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

Operator Certification and Education

1.1 Did y¢ ● Yes (0 ○ No (2) Name:	points) RETT P KELLY	n-charge during the	report year?			0
2.1 In acc and subcl treatment	tion Requirements cordance with Chapter NR 114.50 ass(es) were required for the op c plant and what level and subcla	erator-in-charge (O ass(es) were held by	IC) to operat	te the waste pr-in-charge?	water	
Sub Class	SubClass Description	WWTP	0.77	OIC		
		Advanced	OIT	Basic	Advanced	
A1	Suspended Growth Processes	Х			X	
A2	Attached Growth Processes					
A3	Recirculating Media Filters					
A4	Ponds, Lagoons and Natural		Х			
A5	Anaerobic Treatment Of Liquid					
В	Solids Separation	Х			X	
С	Biological Solids/Sludges	Х			X	0
Р	Total Phosphorus	Х			Х	
N	Total Nitrogen					
D	Disinfection	Х			Х	
L	Laboratory					
U	Unique Treatment Systems					
SS	Sanitary Sewage Collection	Х	NA	NA	NA	
 2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS is required 5 years after permit reissuance and is basic level only.) Yes (0 points) No (20 points) 						
 3. Succession Planning 3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)? M One or more additional certified operators on staff An arrangement with another certified operator An arrangement with another community with a certified operator An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year A consultant to serve as your certified operator None of the above (20 points) If "None of the above" is selected, please explain: 				0		

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting Fo 2020	or:
 4.1 If you had a designated operator-in-charge, was the operator-in-cle Education Credits at the following rates? OIT and Basic Certification: Averaging 6 or more CECs per year. Averaging less than 6 CECs per year. 	harge earning Contin	uing	

Advanced Certification:

• Averaging 8 or more CECs per year.

• Averaging less than 8 CECs per year.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Last Updated: Reporting For 5/7/2021 2020
(XXX) XXX-XXXX
nses for your wastewater st reviewed and/or revised? Replacement Fund, etc.) or our wastewater treatment
ETE QUESTION 3]
<pre>* revised? \$ 15,442,080.00 \$ 0.00 \$ 15,442,080.00</pre>
F y ⁱ

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)

+ \$

413,486.00

Milwaukee Metro Sew Dist Combined	Last Update 5/7/2021	d: Reporting For 2020	
3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)-\$	0	.00	
3.2.6 Ending Balance as of December 31st for CMAR Reporting Year	15,855,566	.00	
All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.			
3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs	from 3.2.5 a	above.	
3.3 What amount should be in your Replacement Fund? \$ 15,855,5	66.00	o	
 Please note: If you had a CWFP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)? Yes 			
 No If No, please explain. 			
 4. Future Planning 4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system? Yes - If Yes, please provide major project information, if not already listed below.□□ No Project Project Description Estimated Approximate			
#	Cost	Construction Year	
1 South Shore Water Reclamation Facility: 30 Projects	123,523,013	2026	
2 Conveyance Projects: See Jones Island CMAR, Financial Management, Item 4.1 3 Jones Island Water Reclamation Facility and Pipelines: See Jones Island CMAR, Financial Management, Item 4.1			
5. Financial Management General Comments			
Response #4 above represents planned spending for Conveyance (Collection System) and Water Reclamation Facility (Jones Island, Pipelines, and South Shore) projects for the District's 6-year planning cycle beginning in 2021. Jones Island and Pipeline project counts and costs have been combined. Additional projects, i.e. Watercourse Improvement and other projects, as well as debt service during the same 6-year period will total \$1.5 billion. For a complete listing of all projects and expenditures planned for the period 2021 to 2026, refer to the MMSD 2021 Capital Budget.			
ENERGY EFFICIENCY AND USE			
6. Collection System6.1 Energy Usage6.1.1 Enter the monthly energy usage from the different energy sources:			
COLLECTION SYSTEM PUMPAGE: Total Power Consumed			
Number of Municipally Owned Pump/Lift Stations: 19			

Milwaukee Metro Sew Dist Combined

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	614,950	40,477
February	507,185	22,644
March	474,534	50,211
April	453,182	20,131
May	443,725	7,246
June	480,247	16,076
July	652,207	4,681
August	432,253	5,123
September	411,266	6,909
October	350,687	15,032
November	212,265	20,414
December	440,164	4,824
Total	5,472,665	213,768
Average	456,055	17,814

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply): ☑ Comminution or Screening

Last Updated: Reporting For:

2020

5/7/2021

- Extended Shaft Pumps
- \boxtimes Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- ☑ Variable Speed Drives
- Other:

Gate control motors, heaters

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

o No

• Yes

Year:

2018

By Whom:

We Energies

Describe and Comment:

A level 1 energy assessment was done in 2018 for the Port Washington Pumping Station. The assessment delivered a report that outlined opportunities for reducing energy.

Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

In 2021 the District will evaluate the various sites for opportunities to improve our energy efficiency and renewable energy profile through Energy Plan in addition to evaluating energy efficiency during rehabilitation projects. Improved power monitor monitoring, controls, and the installation of energy efficient devices such as VFDs continue to be practiced by the District.

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/ Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/ Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	3,822,149	3,556.00	1,075	6,572.37	582	71,585
February	3,447,480	2,972.00	1,160	5,914.58	583	78,018
March	3,578,623	3,564.00	1,004	6,644.70	539	74,866
April	3,425,481	2,976.00	1,151	6,494.52	527	85,896
Мау	3,525,414	4,546.00	775	6,837.92	516	84,344
June	3,441,879	2,727.00	1,262	6,186.15	556	63,387
July	3,684,221	2,792.00	1,320	8,345.14	441	56,448
August	4,030,206	2,566.00	1,571	8,152.88	494	63,234
September	3,806,126	2,383.00	1,597	6,922.86	550	61,183
October	3,799,235	2,359.00	1,611	7,317.49	519	20,025
November	3,616,143	1,916.00	1,887	6,386.46	566	46,492
December	3,742,463	2,223.00	1,684	6,829.83	548	66,565
Total	43,919,420	34,580.00		82,604.90		772,043
Average	3,659,952	2,881.67	1,341	6,883.74	535	64,337

1.2 Comments:

7.2 Energy Related Processes and Equipment

- 7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):
- Anaerobic Digestion
- Biological Phosphorus Removal
- Coarse Bubble Diffusers
- ☑ Dissolved O2 Monitoring and Aeration Control
- Effluent Pumping
- I Fine Bubble Diffusers
- ☑ Influent Pumping
- Mechanical Sludge Processing
- ☑ Nitrification
- SCADA System

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting For 2020
□ UV Disinfection ⊠ Variable Speed Drives ⊠ Other:		
Gravity belt thickeners, plate and frame presses		
7.2.2 Comments:		
7.3 Future Energy Related Equipment		1
7.3.1 What energy efficient equipment or practices do you have planne treatment facility?	d for the future for	your
The 2035 Vision, adopted in 2010, has two elements: integrated water climate change adaptation with an emphasis on energy efficiency. The improvement projects with the Vision to meet a net of 100% of MMSD renewable energy sources and 80% produced with internal, renewable was finalized in January 2015 and is being implemented to attain the I embodied in the 2035 Vision available here: https://www.mmsd.com/a recommendations in the Energy Plan are all either in progress or were Facilities Plan that was finalized in 2020. The Energy Plan will be renew treatment plants, we recommend the following examples of energy eff South Shore Water Reclamation Facility: S01013 – Primary Clarifier Overhaul S02015 – Aeration Basin Diffuser Replacement S04034 – High Strength Waste Mixing Improvements S04035 – Digester 6 & 8 Mixer Replacement S04036 – Bldg 383 HVAC Replacement	District aligns cap 's energy needs wi sources. The Ener District's long-term about-us/2035-vis studied in the 205 wed in 2021. For th	ital rgy Plan goals ion. The io
8. Biogas Generation		
 8.1 Do you generate/produce biogas at your facility? No Yes 		
 Tes If Yes, how is the biogas used (Check all that apply): If Iared Off 		
 ☑ Building Heat ☑ Process Heat ☑ Generate Electricity ☑ Other: 		
9. Energy Efficiency Study		
 9.1 Has an Energy Study been performed for your treatment facility? No Yas 		
 Yes ☑ Entire facility Year: 		
2017		

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

By Whom: University of Wisconsin - Milwaukee Industrial Assessment Center
Describe and Comment:
Assessment covered equipment drives, lighting, and lubricant use throughout the entire facility.
Part of the facility
Year: 2015
By Whom:
Short Elliot Hendrickson and Poyry
Describe and Comment:
MACT assessment was completed of the boilers. Many other processes throughout the facility have been assessed and are monitored for efficiency internally.

Total Points Generated	
Score (100 - Total Points Generated)	100
Section Grade	Α

Milwaukee Metro Sew Dist Combined

Last Updated:	Reporting For:
5/7/2021	2020

	pacity, Management, Operation, and Maintenance (CMOM) Program To you have a CMOM program that is being implemented?
• Ye	5
o No	
If N	o, explain:
	to you have a CMOM program that contains all the applicable components and items ding to Wisc. Adm Code NR 210.23 (4)?
• Ye	5
o No	(30 points)
0 N/	Α
If N	o or N/A, explain:
comp 🛛 G	Does your CMOM program contain the following components and items? (check the conents and items that apply) bals [NR 210.23 (4)(a)]
Des	cribe the major goals you had for your collection system last year:
CN 1. 2. sta 3. 4. 5. 6. 7. 8. 9. ma 10 for an 11 of 12 res	e MMSD CMOM goals related to the conveyance and storage system as presented in the IOM Program Annual Report for 2020 are: Continue the support of the CMOM Program within the District organizational structure. Communicate the goals and objectives of the CMOM Program to internal and external ikeholders, monitor the CMOM Program, and institute program modifications. Continue to maintain adequate financial planning. Continue to comply with regulatory requirements. Continue to support and monitor the regional CMOM program. Continue to maintain a safe work environment and facilities and also sustain a competent rkforce. Establish CMOM program elements specific to minimizing the number and volume of CSOs. Continue to implement and support the Wet Weather Peak Flow Management Program. Where possible, establish additional practices to prevent sanitary sewer overflows (SSOs), intain or improve system performance, and avoid preventable failures. Continue to establish and document level of protection, design, and performance standards new conveyance assets constructed in the District service area, and consider documented d predicted changes in climate. Minimize the cost of conveyance asset ownership while maintaining necessary stewardship assets and achieving defined protection levels. Enhance District level of knowledge and understanding of wet weather flows and system sponse to precipitation and other factors. Promptly and accurately respond to customer inquiries.
	you accomplish them?
	res
• `	
• ` 0	No, explain:

Does this chapter of your CMOM include:

☑ Organizational structure and positions (eg. organizational chart and position descriptions)

 \boxtimes Internal and external lines of communication responsibilities

 \boxtimes Person(s) responsible for reporting overflow events to the department and the public

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting 2020	
⊠ Legal Authority [NR 210.23 (4) (c)]			
What is the legally binding document that regulates the use of your sewe	er system?		
If you have a Sewer Use Ordinance or other similar document, when was revised? (MM/DD/YYYY) 2018-01-22	it last reviewed	and	
Does your sewer use ordinance or other legally binding document addres	s the following:		
New sewer and building sewer design, construction, installation, testi	ng and inspectio	n	
oxtimes Rehabilitated sewer and lift station installation, testing and inspection	1		
Sewage flows satellite system and large private users are monitored a necessary	and controlled, a	S	
☑ Fat, oil and grease control			
\boxtimes Enforcement procedures for sewer use non-compliance			
Operation and Maintenance [NR 210.23 (4) (d)] Does your operation and maintenance program and equipment include the second se	e following:		
\boxtimes Equipment and replacement part inventories	le following.		
Up-to-date sewer system map			
\boxtimes A management system (computer database and/or file system) for co	llection system		
_ information for O&M activities, investigation and rehabilitation	·		
\boxtimes A description of routine operation and maintenance activities (see que	estion 2 below)		
Capacity assessment program			
Basement back assessment and correction			
\boxtimes Regular O&M training			
\boxtimes Design and Performance Provisions [NR 210.23 (4) (e)] \Box	ion and increat	ion of	0
What standards and procedures are established for the design, construct the sewer collection system, including building sewers and interceptor se property?			
State Plumbing Code, DNR NR 110 Standards and/or local Municipal (Code Reauireme	nts	
☑ Construction, Inspection, and Testing			
□ Others:			
L ⊠ Overflow Emergency Response Plan [NR 210.23 (4) (f)]□□			
Does your emergency response capability include:			
Responsible personnel communication procedures			
Response order, timing and clean-up			
Public notification protocols			
🛛 Training			
oxtimes Emergency operation protocols and implementation procedures			
$oxtimes$ Annual Self-Auditing of your CMOM Program [NR 210.23 (5)] $\Box\Box$			
\Box Special Studies Last Year (check only those that apply):			
Infiltration/Inflow (I/I) Analysis			
Sewer System Evaluation Survey (SSES)			
Sewer Evaluation and Capacity Managment Plan (SECAP)			
Lift Station Evaluation Report Otherway			
Others:			
2. Operation and Maintenance			Γ
2.1 Did your sanitary sewer collection system maintenance program include	de the following		

maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning 0.33 % of system/year Root removal 0 % of system/year Flow monitoring 85 % of system/year Smoke testing 0 % of system/year Sewer line 0 % of system/year Sewer line 0 % of system/year Sewer line 0 % of system/year Lift station O&M 19 # per L.S./year Mahole 0 % of system/year It station O&M 19 # per L.S./year Mahole 0 % of system/year It station O&M 0 % of system/year Mahole 0 % of system/year Private sever 0.09 % of system/year Private sever 0.09 % of system/year Private sever I/I 0.39 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sever collection system below: 10 3.1 Provide the following collection system and flow information for the past year. 10 3.1 Provide the following collection system and flow information for the past year. 110 3.2 <th>Milwaukee Metro Sew Di</th> <th>st Combined</th> <th></th> <th>Last Updated: 5/7/2021</th> <th>Reporting For: 2020</th>	Milwaukee Metro Sew Di	st Combined		Last Updated: 5/7/2021	Reporting For: 2020
Flow monitoring 85 % of system/year Smoke testing 0 % of system/year Sewer line 1 % of system/year Manhole 0 % of system/year Manhole 0 % of system/year Lift station 08M 19 # per L.S./year Manhole 0 % of sewer lines rehabbed Mainline 0 % of system/year Private sewer 0.09 % of system/year Inspections 0.09 % of system/year Private sewer I/I 0.33 % of pivate services River or water 0 % of pivate services River or water 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below: 10 10 10 at actual amount of precipitation last year in inches 10 3.0 Provide the following of sanitary sewer 10 302 10 10 Number of lift station failures 0 0 302 Miles of sanitary sewer ippe failures 0 0 10 Number of basement backup occurrences 0 <td>Cleaning</td> <td>0.33</td> <td>3 % of system/year</td> <td></td> <td></td>	Cleaning	0.33	3 % of system/year		
Smoke testing 0 % of system/year Sewer line 4.36 % of system/year Manhole 9 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of system/year Lift station O&M 0 % of manholes rehabbed rehabilitation 0 % of sever lines rehabbed Mainine 0 % of system/year rehabilitation 0 % of system/year Private sewer 0.09 % of system/year Private sewer 0.09 % of system/year Private sewer 0.09 % of system/year Private sewer 0.39 % of private services River or water 0.39 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below: 10 3.1 Provide the following collection system and flow information for the past year. 41.01 Total actual amount of precipitation last year in inches 3.4.76 Annual average precipitation (for your location) 302 Milles of sanitary sewer 19 Number of lift stati	Root removal	0	% of system/year		
Sewer line 4.36 % of system/year Manhole % of system/year inspections % of system/year Lift station O&M 19 # per L.S./year Manhole % of manholes rehabbed mainine 0 % of system/year Private sever 0.09 % of system/year Private sever 0.09 % of system/year Private sever 0.39 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sever collection system below:	Flow monitoring	85	% of system/year		
televising 4.36 % of system/year Manhole 0 % of system/year Lift station 0&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sever 0 % of private services River or water 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:	Smoke testing	0	% of system/year		
inspections 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed Phabilitation 0 % of sewer lines rehabbed Mainine 0 % of sewer lines rehabbed Private sewer 0.09 % of system/year Private sewer I/I 0.39 % of pivate services River or water 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:		4.36	% of system/year		
Manhole % of manholes rehabbed Mainline % of sewer lines rehabbed Private sewer 0.09 % of system/year Private sewer I/I 0.39 % of pipe crossings evaluated or maintained Premoval 0.39 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:		0	% of system/year		
rehabilitation 0 % of manholes rehabbed Mainline 0 % of sewer lines rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0.09 % of system/year Private sewer I/I 0.39 % of private services River or water 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:	Lift station O&M	19	# per L.S./year		
rehabilitation % of sewer lines rehabbed Private sewer inspections 0.09 % of system/year Private sewer I/I removal 0.33 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below: 3. Performance Indicators 3.1 Provide the following collection system and flow information for the past year. 41.01 70tal actual amount of precipitation last year in inches 3.1 Provide the following collection system and flow information for the past year. 41.02 70tal actual amount of precipitation last year in inches 3.1 Provide the following collection system and flow information for the past year. 9.00		0	% of manholes rehabbed		
inspections 0.09 % of system/year Private sewer I/I 0.39 % of private services River or water 0.39 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:		0	% of sewer lines rehabbe	ed	
removal 0.39 % of private services River or water 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:		0.09	% of system/year		
crossings 0 % of pipe crossings evaluated or maintained Please include additional comments about your sanitary sewer collection system below:	-	0.39	% of private services		
3. Performance Indicators 3.1 Provide the following collection system and flow information for the past year. 41.01 Total actual amount of precipitation last year in inches 34.76 Annual average precipitation (for your location) 302 Miles of sanitary sewer 19 Number of lift stations 0 Number of sewer pipe failures 0 0 Number of complaints 93 Average daily flow in MGD (if available) 146 Peak monthly flow in MGD (if available) 286 Peak hourly flow in MGD (if available) 3.2 Performance ratios for the past year: 0.00 Lift station failures (pipe failures/year) 0.00 Sewer pipe failures (pipe failures/year) 0.00 Sanitary sewer overflows (number/sewer mile/yr) 0.00 Basement backups (number/sewer mile) 0.00 Complaints (number/sewer mile) 0.00 Average daily flow in MGD (if available)		0	% of pipe crossings evalu	uated or maintai	ned
3.1 Provide the following collection system and flow information for the past year. 41.01 Total actual amount of precipitation last year in inches 34.76 Annual average precipitation (for your location) 300 Miles of sanitary sewer 19 Number of lift stations 0 Number of lift station failures 0 Number of sewer pipe failures 0 Number of basement backup occurrences 0 Number of complaints 93 Average daily flow in MGD (if available) 146 Peak monthly flow in MGD (if available) 286 286 Peak hourly flow in MGD (if available) 3.2 Performance ratios for the past year: 0.00 0.01 Sanitary sewer overflows (number/sewer mile/yr) 0.02 Sanitary sewer overflows (number/sewer mile) 0.00 Complaints (number/sewer mile) 0.02 Complaints (number/sewer mile) 0.03 Reaking factor ratio (Peak Monthly:Annual Daily Avg)	Please include additiona	al comments about your	sanitary sewer collection	system below:	
3.1 Provide the following collection system and flow information for the past year. 41.01 Total actual amount of precipitation last year in inches 34.76 Annual average precipitation (for your location) 300 Miles of sanitary sewer 19 Number of lift stations 0 Number of lift station failures 0 Number of sewer pipe failures 0 Number of basement backup occurrences 0 Number of complaints 93 Average daily flow in MGD (if available) 146 Peak monthly flow in MGD (if available) 286 286 Peak hourly flow in MGD (if available) 3.2 Performance ratios for the past year: 0.00 0.01 Sanitary sewer overflows (number/sewer mile/yr) 0.02 Sanitary sewer overflows (number/sewer mile) 0.00 Complaints (number/sewer mile) 0.02 Complaints (number/sewer mile) 0.03 Reaking factor ratio (Peak Monthly:Annual Daily Avg)					
3.2 Performance ratios for the past year: 0.00 Lift station failures (failures/year) 0.00 Sewer pipe failures (pipe failures/sewer mile/yr) 0.00 Sanitary sewer overflows (number/sewer mile/yr) 0.00 Basement backups (number/sewer mile) 0.00 Complaints (number/sewer mile) 1.6 Peaking factor ratio (Peak Monthly:Annual Daily Avg)	3.1 Provide the following 41.01 Tot 34.76 An 302 Mil 19 Nu 0 Nu 0 Nu 0 Nu 0 Nu 0 Nu 19 Nu 10 Nu 10 Nu 10 Nu 10 Nu 1146 Pear	collection system and f tal actual amount of pre nual average precipitati es of sanitary sewer mber of lift stations mber of lift station failu mber of sewer pipe failu mber of basement back mber of complaints erage daily flow in MGD ak monthly flow in MGD	ecipitation last year in inch ion (for your location) ires ures cup occurrences) (if available)) (if available)		
0.00Lift station failures (failures/year)0.00Sewer pipe failures (pipe failures/sewer mile/yr)0.00Sanitary sewer overflows (number/sewer mile/yr)0.00Basement backups (number/sewer mile)0.00Complaints (number/sewer mile)1.6Peaking factor ratio (Peak Monthly:Annual Daily Avg)			ii avaliabiej		
0.00 Sanitary sewer overflows (number/sewer mile/yr) 0.00 Basement backups (number/sewer mile) 0.00 Complaints (number/sewer mile) 1.6 Peaking factor ratio (Peak Monthly:Annual Daily Avg)	0.00 Lift	t station failures (failure			
0.00 Basement backups (number/sewer mile) 0.00 Complaints (number/sewer mile) 1.6 Peaking factor ratio (Peak Monthly:Annual Daily Avg)					
0.00 Complaints (number/sewer mile) 1.6 Peaking factor ratio (Peak Monthly:Annual Daily Avg)					
1.6 Peaking factor ratio (Peak Monthly:Annual Daily Avg)					
				`	
3.1 Peaking factor ratio (Peak Hourly:Annual Daily Avg))	
	3.1 Pea	aking lactor ratio (Peak	nouny:Annual Daily AVg)		

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

. Ove	erflows					
LIS	ST OF SANITARY SE	WER (SSO) AND TREATMENT FACILITY (TR	O) OVERFLOWS RE	EPORTED **		
	Date	Location	Cause	Estimated Volume		
	.7/2020 5:30:00 PM - .7/2020 7:00:00 PM	South Howell Avenue, South of East Grange Avenue	Rain	0.03		
correct	ed.	FOs that are not listed above, please contact the DNI		section until		
What actions were taken, or are underway, to reduce or eliminate SSO or TFO occurences in the future? The District and Veolia Water Milwaukee will continue to operate the conveyance system, storage system, and the water reclamation facilities in a manner to prevent separate sewer overflows and to maximum the capture of combined sewer overflows. The District's Wet Weather Peak Flow Management Program evaluates infiltration and inflow in our service area to identify areas to target for improvements. To further reduce the risk of basement backups and separate sewer overflows, the District has funded \$31M of infiltration and inflow reduction projects throughout our service area over the last ten years. In 2020 the Private Property Inflow and Infiltration Reduction Program was made a permanent component of the annual budget. The District has started design on a project to reduce overflows from the Mill Road Relief Sewer at the North Broadmoor Road and North River Road/W Green Tree Road sites. Design continues to address overflows from the Roosevelt MIS at Roosevelt Drive and North 35th Street. The District also has a SSO Elimination Study underway to						
5.1 V • Yes • No If Y Yes col	s es, please describe s; Infiltration and ir ntributor of peak flo	w (I/I) significant in your community last y nflow (I/I) in satellite municipal collection sows from the separate sewer area of the M	ystems is the prima MSD conveyance sy			
 one of the primary causes of separate sewer overflows from the MMSD system. 5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year? Yes No 						
If Yes, please describe:						
5 <u>.3 E</u>	xplain any infiltratio	on/inflow (I/I) changes this year from previ	ous years:			
mer yea proj requ	mber municipalities rs of the PPI/I Prog jects. MMSD has ad	has been reduced over the past year. Twe have PPI/I reduction projects completed o ram. Many of the municipalities also completed opted peak flow performance standards in cipalities to reduce I/I. There were no new	r in progress in the leted public sector I its Chapter 3 revisi	first 11 I/I reduction ions which		
5.4 W	/hat is being done t	o address infiltration/inflow in your collecti	on system?			

MMSD continues sewer rehab through Operation and Maintenance, and Capital programs. MMSD is continuing to work with satellite municipalities to reduce inflow and infiltration with the wet weather peak flow management program. Throughout 2020 the District collected data from 194 permanent meters and 153 portable meters and also 150 surcharge level indicators in strategically selected sanitary sewers within its service area to more accurately measure wastewater flows under both dry and wet weather conditions. The measured peak flows are compared to the allowable peak flows listed in Chapter 3 of the District's rules. Action will be taken for any metersheds that are identified as exceeding the allowable peak flows. MMSD has implemented the Private Property Inflow and Infiltration (PPI/I) Reduction Program in 2011 to support municipal work in reducing I/I from local private property sources. Twenty-five of the twenty-eight member municipalities have PPI/I reduction projects completed or in progress in the 11th year of the PPI/I Program. Additionally, MMSD installed 36 Micrometers to enhance I/I data collection. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. In addition, all municipalities have developed and implemented CMOM and Asset Management programs. MMSD also has a Green Infrastructure (GI) initiative program that is aimed at capturing 740 million gallons of water every time it rains by the year 2035. In 2020 MMSD started a \$20M strategic green infrastructure installation program, called the Fresh Coast Protection Partnership (FCPP). This program is a public private partnership with Corvias; its goals center on ramping up the pace at which GI is installed within our GI Service area. The FCPP will work towards the goal of driving down the per-gallon total cost of GI, while cost effectively building local capacity and expertise in GI practices and producing the greatest impact on the District's local community and conveyance system. In 2020 alone, MMSD built 3,000,000 gallons worth of green infrastructure capture and by the end of 2020, the MMSD had built enough projects to total 37 MG of GI storage capacity each time it rains.

Total Points Generated	
Score (100 - Total Points Generated)	100
Section Grade	A

Milwaukee Metro Sew Dist Combined

Last Updated: Reporting For: 5/7/2021 **2020**

Grading Summary

WPDES No: 0036820

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS	
Influent	A	4	3	12	
BOD/CBOD	A	4	10	40	
TSS	A	4	5	20	
Ammonia	A	4	5	20	
Phosphorus	A	4	3	12	
Biosolids	A	4	5	20	
Staffing/PM	A	4	1	4	
OpCert	A	4	1	4	
Financial	A	4	1	4	
Collection	А	4	3	12	
TOTALS			37	148	
GRADE POINT AVERAGE (GPA) = 4.00					

Notes:

A = Voluntary Range (Response Optional)

B = Voluntary Range (Response Optional)

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

Compliance Maintenance Annual Report		
Milwaukee Metro Sew Dist Combined	Last Updated:	Reporting For:
	5/7/2021	2020

Resolution or Owner's Statement

Name of Governing Body or Owner:				
	MMSD Commission			
Date of Resolution or Action Taken:				
	2021-06-28			
Resolution Number:]		
Date of Submittal:		1		
ACTIONS SET FORTH BY	THE GOVERNING BOD	Y OR OWNER REL	ATING TO SPECI	FIC CMAR
SECTIONS (Optional for g Influent Flow and Loadings	grade A or B. Required			
	. Glade – A			
Effluent Quality: BOD: Gra	de = A			
Effluent Quality: TSS: Grad	le = A			
Effluent Quality: Ammonia	Crado - A			
Effluent Quality: Phosphore	us: Grade = A			
Biosolids Quality and Mana	gement: Grade = A			
Staffing: Grade = A				
Operator Certification: Gra	de = A			
Financial Management: Gra	ade = A			
Collection Systems: Grade				
(Regardless of grade, resp		tion Systems if SSO	s were reported)	

The District continues to consistently meet CSO Performance Standards for water quality based requirements as outlined in our permit. As stated in the current WPDES Permit (Section 4.3.3 (10): "The permittee has submitted the documentation that demonstrated implementation of each of the nine minimum controls in accordance with Section IIB of the U.S. EPA CSO Control Policy. The permittee submitted this documentation to the Department as an element of its 2020 Facilities Plan, approved by the Department on December 26, 2007." Not content with just maintaining status quo, however, the District has a goal of 0 CSOs as targeted in our 2035 Vision Statement. The District's 6-year Long Range Financing Plan includes \$1.5 billion (\$858 million in projects and \$633 million in debt service) to maintain and improve the regional capital infrastructure that helps protect public health, homes, businesses and waterways. This includes spending to fix private property sources of excess water that can overwhelm sanitary sewer systems. Having already committed \$4 billion for clean water infrastructure in previous years, MMSD's asset management is vital for optimizing reliability and performance of new and aging resources for our treatment plants, sewers, and flood management facilities.

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) **G.P.A. = 4.00**



 COMMISSION FILE NO:
 21-083-6
 DATE INTRODUCED:
 June 14, 2021

 INTRODUCED BY:
 5
 5
 6
 5
 6

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

SUMMARY:

The Commission is requested to authorize the Executive Director to approve five projects, G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81, under the 2021 Green Infrastructure Partnership Program (GIPP) in a total amount not to exceed \$1,863,260. The 2021 GIPP funding was allocated in the approved 2021 Capital and Operations and Maintenance budgets. Thirteen additional project awards, G98004P65, G98004P66, G98004P67, G98004P68, G98004P70, G98004P71, G98004P73, G98004P74, G98004P75, G98004P76, G98004P77, G98004P79, and G98004P82, are within the Executive Director's authority and, therefore, are not requested for Commission approval. They are included in this document for reference only.

The primary goals of this program are to meet the 50-million-gallon green infrastructure (GI) goal in the five-year Wisconsin Pollutant Discharge Elimination System permit, support the District's 2035 Vision, implement the Regional Green Infrastructure Plan, and continue progress toward the goal of providing 740 million gallons of stormwater capture capacity in any given storm by 2035. Additionally, this program helps to form mutually beneficial partnerships to generate quantitative data on the effectiveness of GI in managing stormwater runoff in the District's service area and qualitative data on the implementation and feasibility of various GI practices.

The District received 23 applications from private property owners, municipalities, and developers in response to the District's notice and application.

ATTACHMENTS: BACKGROUND	KEY ISSUES	
FISCAL NOTE 🛛 S/W/MBE 🗌 OTI	HER 🗌	
OP_2021_Green_Infrastructure_Partnership_Program_Projects_le 05-21-21	gislative_file.docx	
		DATE:
COMMISSION ACTION:		DATE:

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

The following projects and partners are recommended for funding and are requested for Commission approval:

Project Name	Applicant	Award Amount	Project Number
University of Wisconsin-	Innovation Park	\$243,794	G98004P69
Milwaukee (UWM) Innovation	Development Partners,		
Campus	LLC		
Oak Creek Athletic Field Turf	Milwaukee Area Technical	\$636,063	G98004P72
Conversion	College (MATC)		
Brown Deer Road and	Milwaukee County	\$168,047	G98004P78
Stormwater	Department of Parks,		
Management/Phase Three	Recreation, and Culture		
St. Anthony School Green	St. Anthony School		
Space Initiative	Milwaukee	\$635,806	G98004P80
1300 Glenview Place,	General Capital Group and	\$179,550	G98004P81
Wauwatosa, WI	Joseph Property		
	Development		
	Total	\$1,863,260	

These projects are summarized below:

UWM Innovation Campus – submitted by Innovation Park Development Partners, LLC (G98004P69)

UWM Innovation Campus is a mixed-use development located on approximately 89 acres in the City of Wauwatosa's Life Sciences District. The proposed development will be an environmentally and economically sustainable office, technology, and high value employment-oriented campus. The project includes a large, 69,000-square-foot green roof along with native landscaping that will augment existing stormwater management features as part of a treatment train.

Location: 9401 Watertown Plank Road, Wauwatosa, WI 53226 Gallons Captured: 125,022 GI Strategies: Native landscaping and green roof.

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

Oak Creek Athletic Field Turf Conversion – submitted by MATC (G98004P72)

MATC is embarking on a multiphase upgrade of the athletic field at the Oak Creek Campus. The project will greatly improve the playability of the field used by the school's softball and baseball teams, while providing a significant volume of stormwater runoff storage. The project is in alignment with MATC's commitment to promoting sustainability, resilience, and carbon neutrality in their academic programs and facilities.

Location: 6665 S. Howell Avenue, Oak Creek, WI 53154 Gallons Captured: 326,186 GI Strategies: Athletic turf field with subsurface cistern storage.

Brown Deer Road and Stormwater Management/Phase Three – submitted by Milwaukee County Department of Parks, Recreation, and Culture (G98004P78)

This proposed project is part of a \$6.5 million, three-phase capital development effort to completely reconstruct the interior loop roadway, the clubhouse circular drive and parking lot, and the boathouse loop road at Brown Deer Park. The project will also improve the service yard to provide better drainage and incorporate environmental and safety upgrades. Stormwater best management practices, GI, plantings of native trees and shrubs, and vegetation management are incorporated into the site plan.

<u>Location:</u> 7835 N. Green Bay Road, Milwaukee, WI 53209 <u>Gallons Captured</u>: 86,178 GI Strategies: Native landscaping, porous pavement, stormwater trees, and bioswales.

St. Anthony School Green Space Initiative – submitted by St. Anthony School Milwaukee (G98004P80)

Located in a largely industrial neighborhood next to Mitchell International Airport, St. Anthony High School seeks to develop the surrounding parking lot to create a green space for their students and the nearby neighborhoods. The school currently serves 504 low income, largely Hispanic students. Their project will transform a vast area of weathered asphalt into a soil-amended grassy area providing students with an athletic field to play soccer and have physical education class, as well as an outdoor Socratic classroom including stepped bench seating and picnic benches. The current parking area will be replaced with over 100,000 square feet of porous pavement.

Location: 4807 S. 2nd Street, Milwaukee, WI 53207

Gallons Captured: 359,877

<u>GI Strategies</u>: Native landscaping, porous pavement, rain barrels, stormwater trees, rain garden, soil amendments, and pavement removal.

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

1300 Glenview Place, Wauwatosa, WI – submitted by General Capital Group and Joseph Property Development (G98004P81)

This project is a multifamily residential redevelopment of an approximately 10-acre site currently occupied by a number of industrial buildings. In addition to reducing the direct flow to the Menomonee River, the project will reduce the impervious areas on site by approximately 160,000 square feet. An onsite proposed connection to Oak Leaf Trail network will allow hundreds of residents a day to physically experience and learn about the improvements.

<u>Location:</u> 1300 Glenview Place, Wauwatosa, WI 53213 <u>Gallons Captured</u>: 101,000 <u>GI Strategies</u>: Native landscaping, porous pavement, and pavement removal.

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

The following projects and partners are included for reference only. They are within the Executive Director's authority and are not requested for Commission approval:

Project Name	Applicant	Award Amount	Project Number
Abbot Row Green			
Infrastructure	Abbot Row Corporation	\$54,970	G98004P65
Astor Court Condominium			
Green Infrastructure	Astor Court at East Pointe		
Improvements	Condominium Association	\$45,365	G98004P66
West Morgan Avenue and			
South Honey Creek Drive			
Bioswales	City of Milwaukee	\$120,200	G98004P67
Marquette University College			
of Business Administration	Marquette University	\$75,000	G98004P68
Greenvale Storm Water			
Drainage Improvement	Village of Fox Point	\$69,383	G98004P70
2021 Road and Utility Project	Village of Fox Point	\$17,429	G98004P71
	Milwaukee Board of		
	School Directors on behalf		
Green and Healthy Schools -	of Benjamin Franklin		
Franklin	School	\$104,776	G98004P73
	Milwaukee Board of		
	School Directors on behalf		
Green and Healthy Schools -	of Nathaniel Hawthorne	• • • • •	
Hawthorne	School	\$113,755	G98004P74
	Milwaukee Board of		
Green and Healthy Schools -	School Directors on behalf	• · · - • • -	• • • • • • • • • • • •
Neeskara	of Neeskara School	\$117,065	G98004P75
	Milwaukee Board of		
	School Directors on behalf		
Green and Healthy Schools -	of Clement J. Zablocki	• · · • • • • •	
Zablocki	School	\$112,126	G98004P76
McKinley Marina Parking Lots	Milwaukee County		
Reconstruction and Site	Department of Parks,	MA 17 00 1	000004577
Improvements - Phase 2	Recreation and Culture	\$147,291	G98004P77
	Milwaukee Board of		
Green and Healthy Schools -	School Directors on behalf	# 400.044	000004570
Hayes	of Hayes Bilingual School	\$102,944	G98004P79

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

Project Name	Applicant	Award \$	Project Number
2022 Hubbard Park Parking			
Lot Reconstruction	Village of Shorewood	\$51,605	G98004P82
NOTE: Commission approval			
not requested for these			
projects	Total	\$1,131,908	

BACKGROUND

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

This program provides funding support for a series of GI projects to demonstrate the importance of GI as a sustainable practice in managing the volume, rate, and quality of stormwater runoff. These projects may also catalyze more widespread GI strategies that can benefit the operation of municipal storm and sanitary sewers and the MMSD system. They may also provide potential added benefits to the award partners, including energy savings, reduction of the urban heat island effect, improved aesthetics, improved air quality, and improved water quality.

Partners were selected based on:

- The visibility of the projects and their benefits to the public (public accessibility).
- Partner match, commitment to outreach, and job training.
- Demonstration of a long-term commitment to the projects (maintenance).

The partners chosen through the request for application and evaluation process will share funding responsibility (cost share) with the District. The partner share includes costs associated with the design and construction, monetary contributions, and long-term commitments to maintain the projects. Through this program, the District can leverage significant money for GI.

The District's 2020 Facilities Plan recommended stormwater management demonstration projects to determine best practices that the District could recommend. The GIPP allows for a wide array of GI practices to be used to manage stormwater. Projects are evaluated from a qualitative standpoint post-construction, and that information is reported in District publications.

Projects qualifying for funding from the capital budget must have a total project value of \$25,000 or more, and the District maintains a permanent conservation easement or maintenance covenant on the project for 11 to 20 years.

RESOLUTION

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to approve five projects, G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81, under the 2021 Green Infrastructure Partnership Program, and that the Executive Director is directed to execute contracts and agreements for the projects in a total amount not to exceed \$1,863,260.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Approval of 2021 Green Infrastructure Partnership Program Projects G98004P69, G98004P72, G98004P78, G98004P80, and G98004P81

Capital Project Number(s)	Impact of Requested Action on Total Project Cost:
G98004	Increase Decrease New Project X No Change
Total Project Cost Analysis	Project Costs
Adopted 2021 Total Project Cost	\$17,455,653
Previously Approved Changes	\$0
Approved Total Project Cost	\$17,455,653
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	<u> </u>
Action to be taken to Long-Range I	ancing Plan to address Total Project Cost change
Tr	sfer from Allowance for Cost and Schedule Changes
Tr	sfer from another project (specify in comments)
De	y Project(s) (specify in comments)

Other _____ Transfer to Allowance for Cost and Schedule Changes

Delete Project(s) (specify in comments)

 Comments

 Budget Review by:
 Date:

 Christine Durkin
 5/12/2021



COMMISSION FILE NO:	21-084-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signat	ure on File in the Office of the C	commission)
REFERRED BY COMMIS	SION CHAIRPERSON	TO: Operations Committee	

RELATING TO: Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities (WRF's) and District Headquarters (HQ), with Ramboll Americas Engineering Solutions, Inc., (Ramboll) in an amount not to exceed \$416,305. Ramboll submitted the only proposal. The review committee determined that Ramboll is qualified to perform the tasks for this contract.

Lake and river water surface elevations have been at historical lows and highs in the past decade. Extreme highs and lows are predicted for the future due to climate change. The Federal Emergency Management Agency (FEMA) predicts even higher lake levels at the WRF's due to wave runup. The District must protect its assets from the adverse effects of these water surface elevation fluctuations, ensuring that District assets at the WRF's and at District HQ continue to work as intended. A separate contract (M03108P02) has already been awarded and is addressing water level risks in the conveyance system.

This project consists of a planning level study to identify District WRF and HQ assets that could potentially be affected by high or low water surface elevations (lake and river). The District WRF Asset Management Team and Freshwater Resources Monitoring Group have identified risks that the consultant will evaluate as well as other risks that are identified throughout the process.

ATTACHMENTS: BACKGROUND	$KEYISSUES\square\qquadRESOLUTION\boxtimes$
FISCAL NOTE 🛛 S/W/MBE 🖾 OT	
OP_Contract_M03108P01_Impact_Water_Levels_District_Assets 05-26-21	_WRF_District_Headquarters_legislative_file.docx
COMMITTEE ACTION:	DATE:
COMMISSION ACTION:	DATE:

SUMMARY (Cont'd)

Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters

The consultant shall evaluate Jones Island WRF, South Shore WRF, and the HQ properties for other assets and asset systems that may be affected by high and/or low lake levels. The consultant shall propose alternatives to reduce risks and provide planning-level cost estimates associated with identified feasible alternatives. The consultant will deliver recommendations that may lead to future capital projects. The consultant's evaluations will be summarized in two technical memoranda that will be incorporated with the recommendations into the final deliverable of a capital improvement plan.

The overall contract includes the following major tasks: project management and planning services.

The contract duration is 12 months.

RESOLUTION

Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters, is awarded to Ramboll Americas Engineering Solutions, Inc., in an amount not to exceed \$416,305, and that the Executive Director is directed to execute a contract on behalf of the District.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters

Capital Project Number(s) M03108	Impact of Requested Action on Total Project Cost: Increase Decrease New Project X No Change
Total Praiost Cost Analysis	
<u>Total Project Cost Analysis</u> Adopted 2021 Total Project Cost	Project Costs \$1,123,500
Previously Approved Changes	\$0
Approved Total Project Cost	\$1,123,500
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0
Action to be taken to Long-Range	ancing Plan to address Total Project Cost change
Ti	sfer from Allowance for Cost and Schedule Changes
TI	sfer from another project (specify in comments)
D	y Project(s) (specify in comments)

_Other _____ Transfer to Allowance for Cost and Schedule Changes

Delete Project(s) (specify in comments)

Comments	
Budget Review by:	Date:
Christine Durkin	5/12/2021

Award of Contract M03108P01, Impact of Water Levels on District Assets, Water Reclamation Facilities and District Headquarters



Procurement & S/W/MBE Summary Information

Contract # M03108P01 Cost Center: PRS

Impact on Water Levels on District Assets, Water Reclamation Facilities and District Headquarters

PROPOSAL SUMMARY				
Proposal Receipt Date:	4/7/2021			
	Total	SWMBE	Local	_
# of Proposals	1	0	1	
# of Acceptable Proposals	1	0	1	
	Negotiated Price			
Proposals (listed by rank)	Submitted Price	Acceptable?	% Sub	% SWMBE
Ramboll	\$421,009.00	Acceptable	44.1%	20.2%
Milwaukee, WI 53204	\$416,305.00	Acceptable	44.170	20.270

Compensation packages for proposals rated "Conditionally Acceptable" and "Unacceptable" are not opened.

SUBCONSULTANT I	NFORMATION			
Туре	Subconsultant Name	Type of Work	%	Amount
SBE	Applied Science, Inc. Detroit, MI 48207	Hydrology review & risk assessment	14.5%	\$60,958.00
WBE	Penne Wilson Consulting Sturgeon Bay, WI 54235	Technical editing	1.9%	\$7,840.00
WBE	Superior Engineering Muskego, WI 53150	Technical advising	3.9%	\$16,268.00
Non-SWMBE	Symbiont Milwaukee, WI 53214	Risk evaluation & planning services	23.9%	\$100,425.00

ECONOMIC DEVELOPMENT ELEMENTS

Local Office Preference? Y

Mentor Protégé?

Ν

6/3/2021

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter and sent an e-mail notification to all registered firms in the Architecture & Engineering and Professional Services categories. The proposal opportunity is also publicly accessible from the MMSD website and Bonfire, the portal used to post RFPs. Bonfire also performs outreach to its users when an RFP is posted.

S/W/MBE Document Takers:

Applied Science, Inc.; FreshWater Engineering; Globetrotters Engineering Corporation; Himalayan Consultants, LLC; K. Singh & Associates, Inc.; Kapur & Associates, Inc.; M & M Environmental and Educational Services LLC; Oneida Total Integrated Enterprises (OTIE); Stony Point Hydrology LLC; TERRA Engineering, Ltd.; The Sigma Group

If no or low S/W/MBE participation, explain why:

n/a

Additional Comments:

n/a

AWARDEE INFORMATION

Company:	Ramboll Americas Engineering Solutions, Inc.			
Contact Person:	Robert Bowers, PE			
Phone Number:	(215) 499-0510			
E-mail Address:	robert.bowers@ramboll.com			

EEO DATA

	333 W. Washington Street
	Syracuse, NY 13202
Location:	(Headquarters)

Total # of Employees 673

	<u>Total</u>	<u>%</u>		<u>Total</u>	<u>%</u>
Minorities	54	8.0%	Females	229	34.0%
Asian	22	3.3%	Asian	9	1.3%
Black or African American	13	1.9%	Black or African American	7	1.0%
Hispanic or Latino	18	2.7%	– Hispanic or Latino	4	0.6%
Native American	1	0.1%	Native American	1	0.1%
Other Minority	0	0.0%	Other Minority	0	0.0%
Labor Market Availabil	ity - Minorities	38.1%	Labor Market Availabi	lity - Females	48.1%

Labor Market Availability - Minorities

48.1% Labor Market Availability - Females

PRIME PERFORMANCE HISTORY - S/W/MBE COMPLIANCE

No S/W/MBE compliance history to report.



COMMISSION FILE NO:	21-085-6	DATE INTRODUCED:	June 14, 2021
INTRODUCED BY:	Executive Director (Signat	ure on File in the Office of the C	commission)
REFERRED BY COMMIS	SION CHAIRPERSON	TO: Operations Committee	

RELATING TO: Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J06085P01, Jones Island Water Reclamation Facility (JIWRF) Administrative and Maintenance Facilities Space Planning Analysis, with Greeley and Hansen, LLC, in an amount not to exceed \$387,068. Greeley and Hansen, LLC, was the highest scoring proposer using a qualification-based selection method with one proposal received.

The purpose of the project is to create a capital improvement plan for the aging infrastructure at JIWRF so that any potential rehabilitation and replacement of these facilities can be done in an efficient manner. Many of the administrative and maintenance facilities at JIWRF are in need of rehabilitation or are inefficiently used. To adequately utilize all the available limited space at JIWRF, a capital improvement plan must be developed so that critical infrastructure can be preserved while upgrading these facilities.

Veolia Water Milwaukee, LLC, has submitted various requests over the years to repair buildings that are in need of structural repair. The intent of this project is to address those concerns and modernize the facility.

ATTACHMENTS: BACKGROUND KEY ISSUES	
FISCAL NOTE 🛛 S/W/MBE 🖾 OTHER 🗌	
OP_Contract_J06085P01_JIWRF_Space_Planning_Analysis_legislative_file.docx 05-17-21	
	DATE:
COMMISSION ACTION:	DATE:

SUMMARY (Cont'd)

Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis

The general scope of work for this contract includes the review of the existing building condition and to develop a capital improvement plan for the following buildings at JIWRF:

- 234 Return Activated Sludge Pump Station
- 261 Inline Solids Handling Facility Planning
- 278 Field Operation Building
- 279 Operation Building
- 280 Maintenance Facility

Additionally, the selected consultant will provide project management and planning services. Renderings and other graphics will be provided as needed. A sustainability analysis will also be evaluated through this project.

Once the capital improvement plan is delivered, the District will prioritize the rehabilitation and replacement of the buildings in which the greatest need has been established. The rehabilitation or replacement of the buildings is expected to be done in a phased approached.

The project is expected to take 24 months.

RESOLUTION

Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis, is awarded to Greeley and Hansen, LLC, in an amount not to exceed \$387,068, and that the Executive Director is directed to execute a contract on behalf of the District.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis

Capital Project Number(s)	Impact of Requested Action on Total	Project Cost:
J06085	Increase Decrease	New Project X No Change
Total Project Cost Analysis	Project Costs	6
Adopted 2021 Total Project Cost	\$750,000	
Previously Approved Changes	\$0	
Approved Total Project Cost	\$750,000	
Requested Total Project Cost	n/a	 a
Requested (Increase)/Decrease	\$0	_

	Transfer to Allowance for Cost and Schedule Changes	
Comments		
Budget Review by:		Date:

Other

Christine Durkin

Date:

5/12/2021

Award of Contract J06085P01, Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis



Procurement & S/W/MBE Summary Information

Contract #

J06085P01

Cost Center: PRS

Jones Island Water Reclamation Facility Administrative and Maintenance Facilities Space Planning Analysis

PROPOSAL SUMMARY				
Proposal Receipt Date:	4/16/2021			
	Total	SWMBE	Local	
# of Proposals	1	0	0	
# of Acceptable Proposals	1	0	0]
	Negotiated Price			
Proposals (listed by rank)	Submitted Price	Acceptable?	% Sub	% SWMBE
Greeley and Hansen LLC	\$387,068.00	Accentable	00.00/	28.0%
Waukesha, WI 53186	\$387,068.00	Acceptable	28.0%	20.0%

Compensation packages for proposals rated "Conditionally Acceptable" and "Unacceptable" are not opened.

SUBCONSULTANT INFORMATION

Туре	Subconsultant Name	Type of Work	%	Amount
MBE	Kapur Inc. Milwaukee, WI 53217	Structural Engineering Services	17.0%	\$65,801.56
MBE	Thunderbird Engineering, Inc. Milwaukee, WI 53217	Mechanical, Electrical, Plumbing, and Fire Protection	6.0%	\$23,224.08
WBE	Zoe Engineering LLC Milwaukee, WI 53222	Electrical Power, Instrumentation and Controls and Plant Automation Engineering Services	5.0%	\$19,353.40

ECONOMIC DEVELOPMENT ELEMENTS

Local Office Preference? Y

Mentor Protégé?

NA

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter, sent an e-mail notification to all registered firms in the Professional Services, General Services and Engineering Services categories, sent targeted e-mails to S/W/MBE electrical and fencing companies. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Document Takers:

Applied Technologies, Inc. Bloom Companies, LLC Fusion Integrated Solutions, LLC Globetrotters Engineering Corporation IBC Engineering Services, Inc. Kapur & Associates, Inc. M & M Environmental and Educational Services LLC Thunderbird Engineering Inc

If no or low S/W/MBE participation, explain why: NA

Additional Comments: NA

AWARDEE INFORMATION

Company:	Greeley and Hansen LLC			
Contact Person:	Catharine M. Richardson			
Phone Number:	(312) 578-2452			
E-mail Address:	crichardson@greeley-hansen.com			

EEO DATA

100 South Wacker Drive. Suite Location: 1400 Chicao, IL 600606			Total # o	Total # of Employees	
	<u>Total</u>	<u>%</u>		<u>Total</u>	<u>%</u>
Minorities	107	42.3%	Females	75	29.6%
Asian	37	14.6%	Asian	14	5.5%
Black or African American	30	11.9%	Black or African American	17	6.7%
Hispanic or Latino	34	13.4%	Hispanic or Latino	12	4.7%
Native American	1	0.4%	Native American	1	0.4%
Other Minority	5	2.0%	Other Minority	3	1.2%

PRIME PERFORMANCE HISTORY - S/W/MBE COMPLIANCE

Contract Title	Start Date	Percent Complete	Contract Value	Payments to Prime	Proposed SWMBE \$	Proposed SWMBE %	SWMBE Actuals \$	Actuals %
J04073E01 - Engineering Services - JIWRF D&D Dust Collection System Modeling	3/19/2020	72%	\$340,492.00	\$244,295.11	\$ 122,237	35.90%	\$57,932.25	24%



Item 10

COMMISSION FILE NO:	21-086-6	DATE INTRODUCED:	June 14, 2021		
INTRODUCED BY: Executive Director (Signature on File in the Office of the Commiss					
REFERRED BY COMMIS	SION CHAIRPERSON	TO: Operations Committee			

RELATING TO: Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project, and Approve Changes in Total Project Cost

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract C01006E02, Metropolitan Interceptor Sewer (MIS) Condition Assessment Project, to Mid City Corporation in an amount not to exceed \$1,047,200. Mid City Corporation was the lowest responsible, responsive bidder between two bids received.

Further, the Commission is requested to increase the total project cost (TPC) for Project C01006, MIS Condition Assessment Project, by \$130,000 for an amended TPC of \$1,530,858 and to make a corresponding change to the TPC for Project M99001, Allowance for Cost and Schedule Changes.

The purpose of this project is to provide the District with a thorough condition assessment of a critical asset. The critical asset to be assessed is a sewer that begins at a manhole located near South 60th Street and West Grant Street within the City of West Allis. The sewer increases in diameter from 144 inches to 150 inches as it travels through the service area for approximately 15 miles. The sewer terminates at the South Shore Water Reclamation Facility. Due to camera quality and other limitations in traditional sewer analysis technology, such as high flows and pipe size, the District is unable to obtain detailed information about this sewer. The sewer lacks redundancy and does not have the ability to divert flow to the Jones Island Water Reclamation Facility in the event of a failure; therefore, a more detailed analysis is required.

ATTACHMENTS: BACKGROUND 🗌 KE	EY ISSUES \Box RESOLUTION \boxtimes						
FISCAL NOTE 🛛 S/W/MBE 🖂 OTHER							
OP_C01006E02_MIS_Condition_Assessment_legislative_file.docx 05-21-21							
	DATE:						
COMMISSION ACTION:	DATE:						

SUMMARY (Cont'd)

Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project, and Approve Changes in Total Project Cost

The general scope of work for this contract includes the multi-sensor condition assessment contractor to provide the condition of the MIS. The multi-sensor condition assessment will include high definition camera analysis, light detection and ranging, sonar, and hydrogen sulfide sensors. The contractor will provide two dimensional imaging of the sewer so that the District can properly analyze the condition to ensure the life cycle of this critical asset.

Additionally, the scope includes gathering the pipe thickness through core samples, concrete core compression testing, manhole imaging of the 64 structures along the sewer, and traffic control measures. The District will use the data gathered to develop preliminary engineering documents for the replacement or rehabilitation of the asset.

The contract duration is expected to be 186 days.

The low bid received by the District is more than budgeted, and staff requests an increase to the TPC accordingly.

RESOLUTION

Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project, and Approve Changes in Total Project Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project, is awarded to Mid City Corporation, in an amount not to exceed \$1,047,200, and that the Executive Director is directed to execute a contract on behalf of the District.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the total project cost for Project C01006, Metropolitan Interceptor Sewer Condition Assessment Project, is increased by \$130,000 for an amended total project cost of \$1,530,858, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project and Approve Changes in Total Project Cost

Capital Project Number(s) C01006	Impact of Requested Action on Total P X Increase	roject Cost:
Total Project Cost Analysis	Project Costs	
Adopted 2021 Total Project Cost	\$1,400,858	
Previously Approved Changes	\$0	
Approved Total Project Cost	\$1,400,858	
Requested Total Project Cost	\$1,530,858	
Requested (Increase)/Decrease	(\$130,000)	

Transfer from Allowance for Cost and Schedule Changes
Transfer from another project (specify in comments)
Delay Project(s) (specify in comments)
Delete Project(s) (specify in comments)
Other
Transfer to Allowance for Cost and Schedule Changes

Comments

The increase in total project cost is due to the bids received being higher than budgeted.

Budget Review by:

Christine Durkin

Date:

5/13/2021

Award of Contract C01006E02, Metropolitan Interceptor Sewer Condition Assessment Project and Approve Changes in Total Project Costs



Procurement & S/W/MBE Summary Information

Contract #

C01006E02

Cost Center: PRS

Metropolitan Interceptor Sewer Condition Assessment Project

BID SUMMARY

Bid Opening Date: 4/30/2021

	Total	SWMBE	Local
# of Bids	2	2	1
# of Responsive Bids	2	2	1

Bidders	Price	Responsive?	Responsible?	% Sub	% SWMBE
Mid City Corporation Butler, WI 53007 (SBE)	\$1,047,200.00	Responsive	Responsible	47.7%	52.3%
National Power Rodding Corp. (WBE) Chicago, IL 60612	\$1,274,800.00	Responsive	Responsible	Not provided	20.0%

SUBCONTRACTOR IN	IFORMATION			
Туре	Subcontractor Name	Type of Work	%	Amount
Non-SWMBE	SewerVue Technology Burnaby, BC V5A 1V5	Pipe condition assessment	47.7%	\$500,000.00

ECONOMIC DEVELOPMENT ELEMENTS

Workforce Requirements	
Sanitary Sewer Service Area (SSSA) Employment:	25%
Target Area (TA) Employment:	10%
# Apprentices Required:	0

OUTREACH INFORMATION

The Procurement team performed the following outreach: advertised in the Daily Reporter and sent an e-mail notification to all registered firms in the Construction category. The bid opportunity is also publicly accessible from the MMSD website and Quest CDN. Quest CDN also performs outreach to its users when a bid is posted.

S/W/MBE Planholders:

Mid City Corporation

If no or low S/W/MBE participation, explain why: n/a

Additional Comments: n/a

AWARDEE INFORMATION

Company:	Mid City Corporation	
Contact Person:	Thomas Zoulek	
Phone Number:	(262) 781-5940	
E-mail Address:	tzoulek@midcitycorp.us	

EEO DATA

	12930 W. Custer Ave.	
Location:	Butler, WI 53007	

<u>Total</u>	<u>%</u>
5	9.1%
2	3.6%
0	0.0%
2	3.6%
1	1.8%
	5 2 0

Labor Market Availability - Minorities 20.0%

Total #	Total # of Employees	
	<u>Total</u>	
Females 4		7.3%
African American 1		1.8%
Asian	0	0.0%
Hispanic	1	1.8%
Native American 0		0.0%

Labor Market Availability - Females 48.0%



Item 11

COMMISSION FILE NO:	21-087-6	DATE INTRODUCED:	June 14, 2021

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Approval of Funding Agreement M10005MI02 Under Project M10005, 2021 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

SUMMARY:

The Commission is requested to authorize and to direct the Executive Director to execute on behalf of the District Funding Agreement M10005MI02 in the amount of \$566,000 for work outlined in Work Plan M10005MI02, as submitted by the City of Milwaukee under project M10005, Private Property Infiltration and Inflow (PPII) Reduction Project. Including Work Plan M10005MI02, the City has obligated seven percent of the funding available to the City through 2021 in the PPII Project.

In response to wet weather-related basement backups on the south side of Milwaukee in 2020, the City will be replacing sanitary sewers and installing storm sewer infrastructure in the 3600 blocks of South 85th, 86th, and 87th Streets. As part of the public infrastructure improvements, the City proposes to use District PPII funding to replace the sanitary laterals in the project area.

ATTACHMENTS: BACKGROUND	KEY ISSUES		
FISCAL NOTE 🛛 S/W/MBE 🗌 OTH	HER 🗌		
OP_Milwaukee_M10005MI02_II_Reduction_Project_legislative_file 05-26-21	e.docx		
COMMITTEE ACTION:		DATE:	
COMMISSION ACTION:		DATE:	

BACKGROUND

Approval of Funding Agreement M10005MI02 Under Project M10005, 2021 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

In August 2020, the south side of Milwaukee received 4.5 inches of rain in three hours, causing a sanitary sewer overflow and generating numerous basement backup reports. Through a neighborhood meeting on August 8, 2020, with City and District representatives, it was apparent that basement backups are recurring and underreported in the project area. The City initiated a comprehensive evaluation of sanitary sewers and stormwater drainage in the area through fall 2020 and determined that the condition of the sanitary sewers warranted full replacement. The project area is also low lying and relies primarily on street surface stormwater drainage providing limited relief for high intensity precipitation events. The City is currently completing a closed circuit televising inspection of all sanitary laterals in the project area.

Based on the evaluation of the public and private infrastructure, the City proposes to design and construct a comprehensive rehabilitation of the sewer infrastructure in the 3600 blocks of South 85th, 86th, and 87th Streets. The project will include full replacement of the sanitary sewers, installation of new storm sewers, installation of new storm inlets, and replacement of up to 58 sanitary laterals to the right-of-way line. The City may also install stormwater laterals to facilitate future foundation drain disconnection.

The construction contract will be publicly bid and awarded in July 2021. Construction will start in August 2021 with completion anticipated by the end of October 2021.

The total project cost is estimated to be \$1,830,000. The City will fund \$1,264,000 for the public sanitary sewer, storm sewer, public construction inspection, design, and public outreach project components. The requested \$566,000 from the District will fund the sanitary lateral replacement and inspection for the private property work.

Including Work Plan M10005MI02, the City has obligated seven percent (\$566,000/\$8,151,813) of the funding available to the City through 2021 in the PPII Program. The requested funding is budgeted through project M10005 and does not represent an increase in the total project cost.

RESOLUTION

Approval of Funding Agreement M10005MI02 Under Project M10005, 2021 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute on behalf of the District Funding Agreement M10005MI02 in the amount of \$566,000 for work outlined in Work Plan M10005MI02 as submitted by the City of Milwaukee under project M10005, Private Property Infiltration and Inflow Project.



Capital Budget Fiscal Note Total Project Cost

RELATING TO:

Approval of Funding Agreement M10005MI02 Under Project M10005, 2021 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

Capital Project Number(s)	mpact of Requested Action on Total Project Cost: Increase Decrease New Project X No Change
Total Project Cost Analysis	Project Costs
Adopted 2021 Total Project Cost	*
Previously Approved Changes	\$0
Approved Total Project Cost	*
Requested Total Project Cost	n/a
Requested (Increase)/Decrease	\$0
	cing Plan to address Total Project Cost change r from Allowance for Cost and Schedule Changes
Transfer	r from another project (specify in comments)
Delay P	roject(s) (specify in comments)
Delete F	Project(s) (specify in comments)
Other	
Transfe	r to Allowance for Cost and Schedule Changes

Comments

*The PP I/I program does not have a total project cost because it is a capital program. The long-range financing plan includes \$30.0 million. The program's reserve and the long-range financing plan have sufficient funding for the current request of \$566,000.

Budget Review by:	Date:
Christine Durkin	5/12/2021

OPERATIONS COMMITTEE MEETING

June 14, 2021

EXECUTIVE DIRECTOR'S REPORT

21-001-01

A. Monthly Reports

June 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	<i>14</i> Operations Committee-9:00 a.m. PF&P Committee- 9:05 a.m.	15	16	17	18	19
20	21	22	23	24	25	26
27	28 Commission-9:00 a.m.	29	30			