Milwaukee Ms4 And Sewage Collection SystemLast Updated: Reporting For:5/16/20242023

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1. Provider of Financial Information	
Name: Kurt Sprangers	
Telephone: (XXX) XXX-XXXX	
E-Mail Address	
(optional): kspran@milwaukee.gov	
KSpran@miwaukee.gov	
 2. Treatment Works Operating Revenues 2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ? ◆ Yes (0 points) □□ ◆ No (40 points) If No, please explain: 	
2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: 2022	ס
0-2 years ago (0 points) □□	
○ 3 or more years ago (20 points)□□ ○ N/A (private facility)	
 2.3 Did you have a special account (e.g., CWFP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system? Yes (0 points) No (40 points) 	
REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]	
3. Equipment Replacement Funds 3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: 2022 • 1-2 years ago (0 points)□□ • 3 or more years ago (20 points)□□ • N/A If N/A, please explain:	
3.2 Equipment Replacement Fund Activity	
3.2.1 Ending Balance Reported on Last Year's CMAR \$ 300,000.00	
3.2.2 Adjustments - if necessary (e.g. earned interest, \$ 0.00 audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	
3.2.3 Adjusted January 1st Beginning Balance \$ 300,000.00	
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.) + \$ 2,933,000.00	

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) - \$	2,933,000	00					
3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$	300,000	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 repair	rs from 3.2.5 a	above.					
1) Rehab and/or repair pumps and generators; 2) Sanitary Lateral rep maintenance equipment: jet nozzle, radios, Jet Vac Truck, Jet truck, de excavator; and 4) Purchase of safety equipment and harness.			0				
3.3 What amount should be in your Replacement Fund? \$ 300	,000.00		۳				
Please note: If you had a CWFP loan, this amount was originally based Assistance Agreement (FAA) and should be regularly updated as needed instructions and an example can be found by clicking the SectionInstruction header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund abordered than the amount that should be in it (#3.3)?	l. Further calcutions link unde	ılation er Info					
• Yes							
o No							
If No, please explain.							
 4. Future Planning 4.1 During the next ten years, will you be involved in formal planning for or new construction of your treatment facility or collection system? Yes - If Yes, please provide major project information, if not already No 							
Project Project Description #	Estimated Cost	Approximate Construction Year					
The City of Milwaukee has an ongoing sewer replacement and I/I reduction program. From 2023 to 2028, our six year Capital Improvement Program is \$164,850,000. This amount is for replacement of the City's combined, sanitary and storm sewers. Of that amount, approximately \$2,000,000 is budgeted for the sanitary sewer system rehabilitation each year.	\$2,000,000						
5. Financial Management General Comments							
The City's budget is based on the calendar year, January 1st to December 31st.							
ENERGY EFFICIENCY AND USE	. 500						
6. Collection System 6.1 Energy Usage 6.1.1 Enter the monthly energy usage from the different energy sources	;		,				
COLLECTION SYSTEM PUMPAGE: Total Power Consumed							
Number of Municipally Owned Pump/Lift Stations: 90							

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)		
January	11,608	29		
February	13,684	5		
March	11,405	6		
April	9,114	5		
May	10,049	5		
June	8,919	4		
July	10,656	7		
August	9,883	16		
eptember	8,368	8		
October	9,588	11		
lovember	11,953	21		
December	11,858	22		
Total	127,085	139		
Average	10,590	12		
.2.1 Indicat ⊠ Comminu	elated Processes and Equip e equipment and practice tion or Screening	pment s utilized at your pump/lift	tations (Check all that	apply
2 Energy Re	elated Processes and Equip e equipment and practice tion or Screening Shaft Pumps ering and Recording c Pumping ystem ing Pumps		tations (Check all that	appl
2 Energy Re 2.1 Indicat Comminu Extended Flow Mete Pneumati SCADA So Self-Prim Submersi Variable S	elated Processes and Equipe equipment and practice tion or Screening Shaft Pumps ering and Recording c Pumping ystem ing Pumps ble Pumps Speed Drives		tations (Check all that	apply
2 Energy Re 2.1 Indicat Comminu Extended Flow Mete Pneumati SCADA So Self-Prim Submersi Variable S Other:	elated Processes and Equipe e equipment and practice tion or Screening Shaft Pumps ering and Recording c Pumping ystem ling Pumps ble Pumps Speed Drives		tations (Check all that	apply
2 Energy Re .2.1 Indicat ☑ Comminu ☐ Extended ☐ Flow Mete ☐ Pneumati ☑ SCADA So ☐ Self-Prim ☐ Submersi ☐ Variable So ☑ Other:	elated Processes and Equipe e equipment and practice tion or Screening Shaft Pumps ering and Recording c Pumping ystem ling Pumps ble Pumps Speed Drives		tations (Check all that	apply

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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?
- a) Monthly inspections and monitoring result in early identification of unexpected increases in energy usage, which can be investigated and corrected immediately.
- b) Annual pump rehabilitation project replaces old equipment with new potentially more energy efficient equipment.

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

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Sanitary Sewer Collection Systems

1. Capacity, Management, Operation, and Maintenance (CMOM) Program
1.1 Do you have a CMOM program that is being implemented?◆ Yes
o No
If No, explain:
1 No, Capitani.
4.2. Described as CMOM assessment black as a balance at the second state of the second
1.2 Do you have a CMOM program that contains all the applicable components and items according to Wisc. Adm Code NR 210.23 (4)?
• Yes
o No (30 points)
o N/A
If No or N/A, explain:
1.3 Does your CMOM program contain the following components and items? (check the components and items that apply)
☐ Goals [NR 210.23 (4)(a)]
Describe the major goals you had for your collection system last year:
To efficiently collect and convey all of our customers' wastewater in the most cost effective manner while remaining in compliance with WPDES permits, Clean Water Act, Wisconsin Law, and MMSD Rules and Regulations.
Did you accomplish them?
• Yes
o No
If No, explain:
☐ Organization [NR 210.23 (4) (b)]☐☐
Does this chapter of your CMOM include:
☑ Organizational structure and positions (eg. organizational chart and position descriptions)
☑ Internal and external lines of communication responsibilities
☑ Person(s) responsible for reporting overflow events to the department and the public
□ Legal Authority [NR 210.23 (4) (c)]
What is the legally binding document that regulates the use of your sewer system? City of Milwaukee Ordinance
If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2016-12-13
Does your sewer use ordinance or other legally binding document address the following: ☑ Private property inflow and infiltration
☑ New sewer and building sewer design, construction, installation, testing and inspection
oxtimes Rehabilitated sewer and lift station installation, testing and inspection
☐Sewage flows satellite system and large private users are monitored and controlled, as necessary
☑ Fat, oil and grease control
☑ 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 following:
□ Up-to-date sewer system map

Milwaukee Ms4 And Sewage Collection System Last Updated: Reporting For: 5/16/2024 2023 ☑A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation A description of routine operation and maintenance activities (see question 2 below) ☑ Capacity assessment program ☑ Basement back assessment and correction □ Regular O&M training ☑ Design and Performance Provisions [NR 210.23 (4) (e)]
☐ ☐ What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property? ☑ State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements ☑ Construction, Inspection, and Testing ☑ Others: MMSD Guidelines \square Overflow Emergency Response Plan [NR 210.23 (4) (f)] \square Does your emergency response capability include: ☒ Responsible personnel communication procedures ☑ Response order, timing and clean-up ☑ Public notification protocols ☑ Training ☑ Emergency operation protocols and implementation procedures ☑ Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]□□ ☑ 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 ☐ Others: 2. Operation and Maintenance 2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained. % of system/year Cleaning % of system/year Root removal 10.4 % of system/year Flow monitoring % of system/year Smoke testing 0.02 Sewer line 17 % of system/year televising Manhole inspections 19 % of system/year 12 # per L.S./year Lift station O&M Manhole 0.2 % of manholes rehabbed rehabilitation Mainline % of sewer lines rehabbed rehabilitation 0.3 Private sewer % of system/year inspections

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Pi	Private sewer I/I						
re	emoval	0	% of private serv	ices			
	River or water crossings 0 % of pipe crossings evaluated or maintained						
Please include additional comments about your sanitary sewer collection system below:							
	Trease meduce additional	in comments about your	Sameary Sewer co	nection system belov			
	. Performance Indicators 3.1 Provide the following collection system and flow information for the past year.						
J	34.01 Total actual amount of precipitation last year in inches						
	34.76 Annual average precipitation (for your location)						
	949 Miles of sanitary sewer						
	7 Nu	mber of lift stations					
	0 Nu	mber of lift station failu	res				
	0 Nu	mber of sewer pipe fails	ures				
	35 Nu	mber of basement back	cup occurrences				
	4446 Nu	mber of complaints					
	Average daily flow in MGD (if available)						
Peak monthly flow in MGD (if available)							
	Peak hourly flow in MGD (if available)						
3	.2 Performance ratios fo		ochoor)				
	0.00 Lift station failures (failures/year) 0.00 Sewer pipe failures (pipe failures/sewer mile/yr)						
	0.00 Sewer pipe failures (pipe failures/sewer fille/yr) 0.00 Sanitary sewer overflows (number/sewer mile/yr)						
	0.00 Santary sewer overnows (number/sewer mile/yr) 0.04 Basement backups (number/sewer mile)						
		mplaints (number/sewe	•				
		aking factor ratio (Peak	-	aily Aya)			
		aking factor ratio (Peak	•				
		aning factor ratio (1 can	moury mindus bu	my Avg)			
4.	Overflows						
LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **							
l	Date	Locatio		Cause	Estimated		
					Volume		
	0 2/27/2023 8:34:00 AM - 2/27/2023 12:28:00 PM	5. 99th St. & W. Oklahoma Av	ve. (Permit No. 74)	Rain, Snowmelt	22,185		
-	8/14/2023 3:06:00 PM - 8/14/2023 3:34:00 PM	5. 99th St. & W. Oklahoma Av	ve. (Permit No. 74)	Rain	10,200		
-	2 2/27/2023 8:43:00 AM - 2/27/2023 12:31:00 PM	N. 87th St. & W. Center St. (P	Permit No. 204)	Rain, Snowmelt	13,175		
** 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 City continues to 1) Implement aggressive inflow and infiltration reduction programs, and 2) Clean and televise its						

5. Infiltration / Inflow (I/I)

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	0,10,000
5.1 Was infiltration/inflow (I/I) significant in your community last year? O Yes	
● No	
If Yes, please describe:	
5.2 Has infiltration/inflow and resultant high flows affected performance or your collection system, lift stations, or treatment plant at any time in the particle of Yes	•
• No	
If Yes, please describe:	
5.3 Explain any infiltration/inflow (I/I) changes this year from previous year	rs:
There are no I/I changes from the previous year.	
5.4 What is being done to address infiltration/inflow in your collection syste	m?
1. Flow monitoring 2. Manhole inspections 3. Manhole rehabilitation 4. Sa projects 5. Working with MMSD on CMOM and the 2020 Facilities Plan.	nitary sewer lining

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

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Grading Summary

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial	А	4	1	4
Collection	Α	4	3	12
TOTALS		4	16	
GRADE POINT AVE	RAGE (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)