_	nan	CIDI	Management
	Hall	cıaı	Manadelliell

1. Provider of Financial Information		
Name: Nader Jaber		
Telephone: (414) 286-0514	(XXX) XXX-XXXX	
E-Mail Address		
(optional): njaber@milwau	koo gov	
i jabel @miwad	kee.gov	
 2. Treatment Works Operating Revenues 2.1 Are User Charges or other revenues su treatment plant AND/OR collection system Yes (0 points) □□ No (40 points) If No, please explain: 	fficient to cover O&M expenses for your wastewater ?	
2.2 When was the User Charge System or	other revenue source(s) last reviewed and/or revised?	
Year: 2017	o	
• 0-2 years ago (0 points) $\Box\Box$		
o 3 or more years ago (20 points)□□		
N/A (private facility)		
· · · · · · · · · · · · · · · · · · ·	CWFP required segregated Replacement Fund, etc.) or replacing equipment for your wastewater treatment	
O No (40 points)		
•	_ FACILITIES SHALL COMPLETE QUESTION 3]	
 Equipment Replacement Funds When was the Equipment Replacement Year: 	: Fund last reviewed and/or revised?	
2018		
1-2 years ago (0 points)□□3 or more years ago (20 points)□□		
o 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. earr audit correction, withdrawal of excess funds making up previous shortfall, etc.)		
3.2.3 Adjusted January 1st Beginning Bala	nce \$ 300,000.00	
3.2.4 Additions to Fund (e.g. portion of Use	er Fee,	
earned interest, etc.)	+ \$ 1,854,820.00	

Milwaukee, City	Last Updated: Reporting Fo 5/21/2019 2018
3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)	\$ 1,854,820.00
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.	anniva franc 2.2 E phase
3.2.6.1 Indicate adjustments, equipment purchases, and/or major r 1) Rehab and/or repair pumps and generators 2) Purchase of sewer CCTV Pipeline Inspection System, jet nozzles, gas monitors, sewer vehicles and 3) Purchase of safety equipment and safety harness.	er maintenance equipment:
3.3 What amount should be in your Replacement Fund? Please note: If you had a CWFP loan, this amount was originally bas Assistance Agreement (FAA) and should be regularly updated as neinstructions and an example can be found by clicking the SectionIns header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund greater than the amount that should be in it (#3.3)? ● Yes ○ No If No, please explain.	300,000.00 sed on the Financial eded. Further calculation structions link under Info
 4. Future Planning 4.1 During the next ten years, will you be involved in formal planning or new construction of your treatment facility or collection system? Yes - If Yes, please provide major project information, if not alreader No 	
Project Project Description #	Estimated Approximate Cost Construction Year
The City of Milwaukee has an ongoing sewer replacement and I/I reduction program. From 2018 to 2023, our six year Capital Improvement Program is \$225,000,000. This amount is for replacement of the City's combined, sanitary storm sewers. Of that amount, approximately \$5,000,000 is budgeted for the sanitary sewer system rehabilitation each year.	5000000 2018
5. Financial Management General Comments	
The City's budget is based on the calendar year, Jan 1st to Dec 31st.	
ENERGY EFFICIENCY AND USE	
6. Collection System6.1 Energy Usage6.1.1 Enter the monthly energy usage from the different energy sour	rces:
COLLECTION SYSTEM PUMPAGE: Total Power Consumed	
Number of Municipally Owned Pump/Lift Stations: 90	

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)		
January	10,637	6		
February	7,177	7		
March	8,343	7		
April	12,269	7		
May	13,099	5		
June	73,896	9		
July	9,771	13		
August	9,953	3		
September	9,542	3		
October	10,300	3		
November	13,168	5		
December	15,047	21		
Total	193,202	89		
Average	16,100	7		
6.2.1 Indicat		oment s utilized at your pump/lift	tations (Check all t	hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other:	e equipment and practice of the street of th		tations (Check all t	hat apply
6.2.1 Indicat ☐ Comminu ☐ Extended ☐ Flow Mete ☐ Pneumati ☐ SCADA S ☐ Self-Prim ☐ Submersi ☐ Variable S	e equipment and practice of the street of th		tations (Check all t	hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other:	e equipment and practice of the street of th		tations (Check all t	hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other:	e equipment and practice of the street of th		tations (Check all t	hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other: Electric He 6.2.2 Comme	e equipment and practice of the street of th			hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other: Electric He	e equipment and practice of the street of th	s utilized at your pump/lift		hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other: Electric He 6.2.2 Comme	e equipment and practice of the street of th	s utilized at your pump/lift		hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other: Electric He 6.2.2 Comme	e equipment and practice of the street of th	s utilized at your pump/lift		hat apply
6.2.1 Indicat Comminut Extended Flow Mete Pneumati SCADA S Self-Prim Submersi Variable S Other: Electric He 6.2.2 Comme 6.3 Has an En No O Yes Year: By Whom:	e equipment and practice of the street of th	s utilized at your pump/lift		hat apply

Milwaukee, City

Last Updated: Reporting For: 5/21/2019 2018

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 monitorings 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	
Score (100 - Total Points Generated)	
Section Grade	

Milwaukee, City

Last Updated: Reporting For: 5/21/2019

2018

Sanitary Sewer Collection Systems

 Capacity, Management, Operation, and Maintenance (CMOM) Program Do you have a CMOM program that is being implemented?
Yes Yes
○ No
If No, explain:
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
○ No (30 points)
○ 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
○ 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) 1995-09-27
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
☑ Rehabilitated sewer and lift station installation, testing and inspection
Sewage flows satellite system and large private users are monitored and controlled, as
necessary
☑ Fat, on 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:
☑ Equipment and replacement part inventories
☐ Up-to-date sewer system map

information for O&M ☐ A description of rout ☐ Capacity assessment ☐ Basement back asse ☐ Regular O&M training ☐ Design and Performan ☐ What standards and protection systems ☐ property?	activities, investigation ine operation and main t program ssment and correction g ce Provisions [NR 210.2 cedures are established tem, including building e, DNR NR 110 Standar	tenance activities (see question 2 below)	
Milwaukee Metropolit	an Sewerage District G	uidelines	
□ Overflow Emergency Responsible personn □ Response order, tim □ Public notification pr □ Training □ Emergency operation □ Annual Self-Auditing o □ Special Studies Last Ye □ Infiltration/Inflow (I,	esponse capability included communication processing and clean-up otocols In protocols and implement f your CMOM Program ear (check only those the procession of the proces	de: edures entation procedures [NR 210.23 (5)] nat apply):	o
2. Operation and Maintena			
2.1 Did your sanitary sew maintenance activities? Co Cleaning Root removal Flow monitoring Smoke testing	ver collection system m	aintenance program include the following and indicate the amount maintained. % of system/year % of system/year % of system/year % of system/year	
Sewer line televising	10	% of system/year	
Manhole inspections	21.46	% of system/year	
Lift station O&M	12	# per L.S./year	
Manhole rehabilitation	0.87	% of manholes rehabbed	
Mainline rehabilitation	1.21	% of sewer lines rehabbed	
Private sewer inspections	0	% of system/year	

Milwaukee, City

Last Updated: Reporting For: 5/21/2019

2018

Private sewer I/I o % of private services	
River or water crossings 0 % 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.	
45.08 Total actual amount of precipitation last year in inches	
34.76 Annual average precipitation (for your location)	
942 Miles of sanitary sewer	
7 Number of lift stations	
Number of lift station failures	
Number of sewer pipe failures	
33 Number of basement backup occurrences	
1460 Number 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 for the past year: 0.43 Lift station failures (failures/year)	
0.00 Sewer pipe failures (pipe failures/sewer mile/yr)	
0.03 Sanitary sewer overflows (number/sewer mile/yr)	
0.04 Basement backups (number/sewer mile)	
1.55 Complaints (number/sewer mile)	
Peaking factor ratio (Peak Monthly:Annual Daily Avg)	
Peaking factor ratio (Peak Hourly:Annual Daily Avg)	
	+

4. Overflows

	LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OFERFLOWS REPORTED **					
	Date	Location	Cause	Estimated Volume (MG)		
	6/20/2018 11:35:00 AM	Sanitary Manhole #317D194 approx. 330' south of the intersection of N. Lincoln Memorial Dr. and E. Ravine Rd.	Plugged Sewer	0.0007 - 0.0007		
		North 75th Street and West Hadley Street (Permit No. 062)	Rain	0.0399 - 0.0399		
	-,,	West Potomac Avenue and 350' NW of West Glendale Avenue (Permit No. 239)	Rain	0.0144 - 0.0144		
		North 21st Street and West Hampton Avenue (Permit No. 059)	Rain	0.0302 - 0.0302		
		North 27th Street and West Hope Avenue (404' s/o) (Permit No. 219)	Rain	0.0018 - 0.0018		

6/18/2018 3:18:00 PM - 6/18/2018 5:27:00 PM	West Potomac Avenue and West Chapman Place (Permit No. 216)	Rain	0.1468 - 0.1468
6/18/2018 3:40:00 PM - 6/18/2018 5:03:00 PM	North 20th Street and West Hampton Ave (nw/s) (Permit No. 023)	Rain	0.0530 - 0.0530
6/18/2018 3:31:00 PM - 6/18/2018 5:08:00 PM	North 72nd Street and West Hope Avenue (Permit No. 214)	Rain, Equipment Failure	0.1270 - 0.1270
6/18/2018 3:40:00 PM - 6/18/2018 4:18:00 PM	North 41st Street and West Congress Street (N/S) (Permit No. 014)	Rain	0.0231 - 0.0231
6/18/2018 3:25:00 PM - 6/18/2018 5:56:00 PM	North 72nd Street and West Capitol Drive (Permit No. 215)	Rain, Flooding	0.1810 - 0.1810
6/18/2018 3:40:00 PM - 6/18/2018 4:00:00 PM	North 20th Street and West Hampton Avenue (S/S) (Permit No. 024)	Rain	0.0126 - 0.0126
6/18/2018 3:20:00 PM - 6/18/2018 5:20:00 PM	North 86th Street and West Center Street (Permit No. 199)	Rain	0.1467 - 0.1467
6/18/2018 3:40:00 PM - 6/18/2018 3:53:00 PM	North 76th Street (W/S) and West Glendale Street (Permit No. 234)	Rain	0.0218 - 0.0218
7/7/2018 8:58:00 AM - 7/7/2018 10:07:00 AM	Sanitary Manhole #318A001 approx. 170' northeast of the intersection of N. Lincoln Memorial Dr. and E. Belleview Pl.	Powerout, Equipment Failure	0.0013 - 0.0013
7/7/2018 8:58:00 AM - 7/7/2018 10:07:00 AM	Sanitary Manhole #318A002 approx. 460' northeast of the intersection of N. Lincoln Memorial Dr. and E. Belleview Pl.	Powerout, Equipment Failure	0.0013 - 0.0013
7/7/2018 8:58:00 AM - 7/7/2018 10:07:00 AM	Sanitary Manhole #318A003 approx. 715' northeast	Powerout, Equipment Failure	0.0027 - 0.0027
	West Potomac Avenue and 350' nw/o West Glendala Avenue (Permit No. 239)	Rain	0.0131 - 0.0131
8/20/2018 10:15:00 PM - 8/20/2018 10:50:00 PM	North 76th Street (W/S) and West Glendale Street (Permit No. 234)	Rain	0.0089 - 0.0089
8/20/2018 10:15:00 PM - 8/20/2018 10:50:00 PM	North 66th Street and West Ruby Avenue (Permit No. 223)	Rain	0.0155 - 0.0155
8/20/2018 10:09:00 PM - 8/20/2018 10:42:00 PM	West Potomac Avenue and West Chapman Place (Permit No. 216)	Rain	0.0143 - 0.0143
8/20/2018 10:14:00 PM - 8/20/2018 10:58:00 AM	North 72nd Street and West Capitol Drive (Permit No. 215)	Rain	0.0535 - 0.0535
8/20/2018 10:17:00 PM - 8/20/2018 10:38:00 PM	North 72nd Street and West Hope Avenue (Permit No. 214)	Rain	0.0011 - 0.0011
8/20/2018 10:15:00 PM - 8/20/2018 10:50:00 PM	North 20th Street and West Hampton Avenue (S/S) (Permit No. 024)	Rain	0.0198 - 0.0198
8/20/2018 10:15:00 PM - 8/20/2018 11:02:00 PM	North 20th Street and West Hampton Ave (nw/s) (Permit No. 023)	Rain	0.0304 - 0.0304
8/20/2018 10:15:00 PM - 8/20/2018 10:50:00 PM	North 41st Street and West Congress Street (N/S) (Permit No. 014)	Rain	0.0148 - 0.0148
	West Potomac Avenue and 350' nw/o West Glendale Avenue (Permit No. 239)	Rain	0.0174 - 0.0174
8/26/2018 11:37:00 PM - 8/27/2018 12:03:00 AM	West Potomac Avenue and West Chapman Place (Permit No. 216)	Rain	0.0086 - 0.0086
<u> </u>	N. 62nd Street and W. Fairmount Avenue (Permit	Rain	0.0104 - 0.0104

Milwaukee, City

Last Updated: Reporting For:
5/21/2019

2018

1 ' '	North 76th Street (W/S) and West Glendale Street (Permit No. 234)	Rain	0.0843 - 0.0843
 1 ' '	North 72nd Street and West Hope Avenue (Permit No. 214)	Rain	0.0037 - 0.0037
1 ' '	North 72nd Street and West Capitol Drive (Permit No. 215)	Rain	0.0472 - 0.0472
 1 ' '	North 20th Street and West Hampton Avenue (S/S) (Permit No. 024)	Rain	0.0475 - 0.0475

^{**} 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 reductions programs, 2. Clean and televise its sanitary sewer system to identify and prevent blockages.

- 5. Infiltration / Inflow (I/I)
- 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 created problems in your collection system, lift stations, or treatment plant at any time in the past year?
- Yes
- No

If Yes, please describe:

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

There are no I/I changes from the previous year.

- 5.4 What is being done to address infiltration/inflow in your collection system?
 - 1. Flow monitoring 2. Manhole inspections 3. Manhole rehab 4. Sanitary sewer lining projects 5. Working with MMSD on CMOM and the 2020 Facilities Plan.

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

Milwaukee, City

Last Updated: Reporting For:
5/21/2019

2018

Grading Summary

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial	А	4	1	4
Collection	А	4	3	12
TOTALS			4	16
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)