Village of North Freedom Resolution 2024-004 - 2023 CMAR

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024 2023

Influent Flow and Loading

1. Monthly Average Flows and BOD Loadings

1.1 Verify the following monthly flows and BOD loadings to your facility.

Influent No. 701	Influent Monthly Average Flow, MGD	X	Influent Monthly Average BOD Concentration mg/L	X	8.34	=	Influent Monthly Average BOD Loading, lbs/day
January	0.0658	X	305	X	8.34	=	167
February	0.0568	X	265	X	8.34	=	126
March	0.0677	X	160	X	8.34	=	
April	0.1707	X	165	X	8.34		90
May	0.0632	X	245			=	235
June	0.0442	X	290	X	8.34	=	129
July	0.0387	X	230	X	8.34	=	107
August				X	8.34	=	
	0.0378	X	170	X	8.34	=	54
September	0.0364	X	265	X	8.34	=	80
October	0.0472	X	295	X	8.34	=	116
November	0.0314	X	305	X	8.34	=	
December	0.0367	X	240	X	8.34	=	80 74

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	X	%	=	0/ 05 Dani
lax Month Design Flow, MGD	0.7	_			% of Design
Design flow, Mad	.07	X	90	=	0.063
		X	100	=	.07
Design BOD, lbs/day	133	X	90	=	119.7
2.2 Verify the number of times th		X	100	=	133

2.2 Verify the number of times the flow and BOD exceeded 90% or 100% of design, points earned,

Tan italiibe	or Por	IILS			25
Total Number	er of Poi		1	12	4
Points		8	1	4	2
xceedances		4	1	3	2
Points per ea	ch	2	1		0
December	1	0	0	0	0
November	1	0	0	0	0
October	1	0	0	0	0
September	1	0	0	0	0
August	1	0	0	0	0
July	1	0	0	0	0
June	1	0	0	1	0
May	1	1	0	1	1
April	1	1	1	1	0
March	1	1	0	0	0
February	1	0	0	1	1
January	Influent	than 90% of	flow was greater than 100% of	BOD was greater than 90% of design	BOD was greater
	Months	Number of times	Number of times	The state of chilles	Number of times

25

North Freedom Wastewater Treatment Facility

Flow Meter 3.1 Was the influent flow meter calibrated in the last year? • Yes Enter last calibration date (MM/DD/YYYY) 2023-10-18		
 Was the influent flow meter calibrated in the last year? Yes <u>Enter last calibration</u> date (MM/DD/YYYY) 		
O No If No, please explain:		
If No, please exprain.		
. Sewer Use Ordinance		of
. Sewer Use Ordinance 4.1 Did your community have a sewer use ordinance that limited or prolexcessive conventional pollutants ((C)BOD, SS, or pH) or toxic substance industries, commercial users, hauled waste, or residences? Yes 	nibited the discharge tes to the sewer from	OI
o No		
If No, please explain:		
4.2 Was it necessary to enforce the ordinance? o Yes		
• No		
If Yes, please explain:		
Septic Tanks Holding Tanks Grease Traps O Yes O Yes O Yes No No		
110	gallone	
5.2 Did you receive septage at your facility? If yes, indicate volume in Septic Tanks o Yes gallons	galloris.	
• No		
Holding Tanks o Yes gallons		
• No		
Grease Traps o Yes gallons		
• No		luing
No5.2.1 If yes to any of the above, please explain if plant performance i	is affected when recei	virig
any of these wastes.		
6. Pretreatment	s, biosolids quality co	ncerns,
6. Pretreatment 6.1 Did your facility experience operational problems, permit violation or hazardous situations in the sewer system or treatment plant that w commercial or industrial discharges in the last year?	vere attributable to	
6.1 Did your facility experience operational problems, permit violation or hazardous situations in the sewer system or treatment plant that w commercial or industrial discharges in the last year? o Yes	rere attributable to	
6.1 Did your facility experience operational problems, permit violation or hazardous situations in the sewer system or treatment plant that w commercial or industrial discharges in the last year? O Yes	rere attributable to	
6.1 Did your facility experience operational problems, permit violation or hazardous situations in the sewer system or treatment plant that w commercial or industrial discharges in the last year? o Yes	Tere attributable to	

Last Updated: Reporting For:

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 **2023**

o Yes

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	25
Score (100 - Total Points Generated)	75
Section Grade	6

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

25

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

	ber of points					25
Points					16	9
Exceedance					2	3
Points per each exceedance with 11 months of discharge						3
	lischarge/yr			11	8	
		* Ec	juals limit if limit is	s <= 10		
December	30	27	16	1	0	0
November	30	27	20	1	0	0
October	30	27	36	1	1	1
September	30	27	17	1	0	0
August	30	27	24	1	0	0
July	30	27				
June	30	27	20	1	0	0
May	30	27	31	1	1	1
April	30	27	12	1	0	0
March	30	27	27	1	0	0
February	30	27	29	1	0	1
January	30	27	8	1	0	0
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

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

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

Due to seasonal changes, we continued to do general maintenance. There was also a problem with the chemical treatment pump as it failed. Recalibrated and reinstalled with contractor.

- 2. Flow Meter Calibration
- 2.1 Was the effluent flow meter calibrated in the last year?
- Yes

Enter last calibration date (MM/DD/YYYY)

2023-10-18

O No

If No, please explain:

- 3. Treatment Problems
- 3.1 What problems, if any, were experienced over the last year that threatened treatment?

Weather/Precipitation. Chemical pump failure.

- 4. Other Monitoring and Limits
- 4.1 At any time in the past year was there an exceedance of a permit limit for any other pollutants such as chlorides, pH, residual chlorine, fecal coliform, or metals?

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 2023 o Yes · No 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	25
Score (100 - Total Points Generated)	75
Section Grade	С

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

Effluent Quality and Plant Performance (Total Suspended Solids)

1. Effluent Total Suspended Solids Results

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

Total Num	ber of Points					11
Points					8	3
Exceedance	es	1	1			
Points per	each exceed	8	3			
STATE OF THE PARTY	Discharge/yr			11		
		* Eq	uals limit if limit is	<= 10		
December	60	54	27	1	0	0
November	60	54	31	1	0	0
October	60	54	49	1	0	0
September	60	54	49	1	0	0
August	60	54	80	1	1	1
July	60	54				
June	60	54	25	1	0	0
May	60	54	34	1	0	0
April	60	54	27	1	0	0
March	60	54	35	1	0	0
February	60	54	51	1	0	0
January	60	54	13	1	0	0
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
					B :1 1: ::	000/ D-

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

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

General Maintenance - Pond mowing.

Total Points Generated	11
Score (100 - Total Points Generated)	89
Section Grade	В

11

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

0

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	Moold	F661	Manualla	= 60				
001	Monthly Average	Weekly Average	Effluent	Monthly	Effluent	Effluent	Effluent	Effluent	Weekly
001	NH3	NH3	Monthly	Permit	Weekly	Weekly	Weekly	Weekly	Permit
	Limit	Limit	Average NH3	Limit Exceed	Average	Average	Average	Average	Limit
	(mg/L)	(mg/L)	(mg/L)	ance	1 veek	for Week	for Week	for Week	Exceed
lanuami	N. N				-		3	4	ance
January	108	108	7.55	0	5.8	7	8	9.4	0
February	108	108	12.75	0	11.5	14	14	•	0
March	108	108	14.75	0		15	15	14	0
April	108	108	9.15	0	13	11	7.8	4.8	0
May	108	108	6.475	0	3.9	9.2	5.3	7.5	0
June	108	108	.963	0	0	1.7	.45	1.7	0
July	108	108		0		,			0
August	108	108	9.5	0	5.5		11.5		0
September	108	108	7.75	0	0	9	11	11	0
October	108	108	9.65	0	12	10	9	7.6	0
November	108	108	5.475	0		6.5	5.35	4.7	0
December	108	108	5.7	0	6.4	5.2	5.3	5.9	0
Points per ea			lonthly av	erage:	EZ A SASTA				10
Exceedances	, Monthly	:							0
Points:									0
Points per ea	ach exceed	dance of w	eekly ave	rage (whe	en there is	no month	ly average	e):	2.5
exceedances	, Weekly:	win str	av sale Te						0
Points:									0
Total Numb	er of Poi	nts							0
termination of the second									U

NOTE: Limit exceedances are considered for monthly OR weekly averages but not both. When a monthly average limit exists it will be used to determine exceedances and generate points. This will be true even if a weekly limit also exists. When a weekly average limit exists and a monthly limit does not exist, the weekly limit will be used to determine exceedances and generate points. 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

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

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	Effluent Monthly Average phosphorus	Months of Discharge with a	Permit Limit Exceedance
	(mg/L)	(mg/L)	Limit	
January	4.5	2.200	1	0
February	4.5	2.850	1	0
March	4.5	2.175	1	0
April	4.5	0.925	1	0
May	4.5	0.375	1	0
June	4.5	0.415	1	0
July	4.5			
August	4.5	1.767	1	0
September	4.5	1.140	1	0
October	4.5	1.625	1	0
November	4.5	0.840	1	0
December	4.5	0.580	1	0
Months of Dischar	ge/yr	·	11	
Points per each	ge:	11		
Exceedances				0
Total Number of	Points			0

NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0

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

0

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 2023

0

Ponds And Lagoon Leakage

I. FUILU LIIIIII	1.	Pond	Lining
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1.1 What material was used to line your ponds?

Primary - Bentonite Clay

Secondary - PVC

- 2. Flow Measurements
- 2.1 Did you measure influent flow to your wastewater ponds or lagoons?
- Yes (0 points)□□
- No (40 points) (Go to question 6)□□
- 2.1.1 Method of influent flow measurement:

Pump run time X calculated pump GPM

- 2.2 Did you measure effluent flow discharged from your wastewater system either to the land disposal system or to the receiving stream?
- Yes (0 points) □□
- No (40 points) (Go to question 6)□□
- O No Discharge (O points)
- 2.2.1 Method of effluent flow measurement:

Parshall flume w/ ultrasonic level

- 3. Total Flow Volumes
- 3.1 Total monthly influent and effluent flow volumes from the pond/lagoon system during the last calendar year.

21.1417	YEARLY TOTAL	10.3139
1.1389	DECEMBER	1.051
.9413	NOVEMBER	.633
1.4632	OCTOBER	.902
1.0909	SEPTEMBER	.076
1.1706	AUGUST	.383
1.2008	JULY	0
1.3246	JUNE	0
1.9595	MAY	.698
5.1223	APRIL	1.964
2.0986	MARCH	2.089
1.5905	FEBRUARY	1.1779
2.0405	JANUARY	1.34
Total Monthly Influent Volume		Total Monthly Effluent Volume

3.2 From the Yearly Total influent and effluent volumes above, total effluent is divided by total influent and converted to a percent of volume loss.

Total effluent, MG =>

10.3139

0.488

<= effl / infl ratio

Total influent, MG =>

21.1417

Conversion to a percent of volume loss:

(1-effl/infl ratio) * 100

51.2

Compliance Maintenance Annual Report North Freedom Wastewater Treatment Facility

lor	th Freedom Waste	water Trea	tment Facili	ty			Last Updated: 5/7/2024	Reporting For 2023
				%	of influ	ent lost and n	ot discharged w	rith effluent
4.	Surface Area 1 What was the tota clude seepage cells)		er surface are	a of th	e ponds	s/lagoons at o	perating level (do not
5. po	Leakage Rate Estim 1 Total influent volu and/lagoon storage (se estimated leakage	ume (in MG) (in MG) is the	e net wastewa	effluent ater los	volum	e (in MG) plus net loss divid	s or minus the c ed by 0.000365	hange in equals
	Total Annual	Influent (MG	i)	21.141	.7			
	Total Annual	Effluent (MG)	10.313	39			
	Estimated No	et Loss (MG)		10.827	78			
	Estimated Leaka	ge Amount (gpd)			29665		
5. Le	the storage change laborated increase: Storage Decrease: 2 CMAR Estimated leakage Rate in gpadurface area (from quantum particular descriptions)	Enter amour Enter amou eakage Rate is the leaka	nt in MG -> nt in MG -> e in gallons po	er acre	per da rom pa	y (gpad): The	e CMAR Estimated by the total po	ed ond
	Leakage Amount (gpd)		Acres			Estimated kage Rate		
	29665	divided by	9	=		3296		
6 w	On Site Leakage Test. 1 Did you conduct a ras approved by the poyes No If yes, what was the NOTE: if 6.1 is answering generated. 1.2 Leakage Rate Conduct.	nnd on-site, Department Year field Test C gpad wered Yes, t	and is still va	alid?] kage R	ate for	your ponds/la	agoons?	
7 t	Estimated Leakage 1.1 The CMAR Estimated below. If an approved field Department, the Field from the table below	test was cor Id Calculated	Rate (from 5	he resu	ults are	still valid and	accepted by th	e

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 2023

		3/1/2024	2023
gpad	points		
0 - 1,000	0		
1,001 - 2,000	10		
2,001 - 4,000	20		20
4,001 - 7,000	30		20
> 7,000	40		
Based on the leakage rate in g	pad, the points earned are:		

Total Points Generated	20
Score (100 - Total Points Generated)	80
Section Grade	C

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

Biosolids Quality and Management

1. Biosolids Use/Disposal 1.1 How did you use or dispose of your biosolids? (Check all that apply) □ Land applied under your permit □ Publicly Distributed Exceptional Quality Biosolids □ Hauled to another permitted facility □ Landfilled □ Incinerated ☑ Other NOTE: If you did not remove biosolids from your system, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc. 1.1.1 If you checked Other, please describe:	1
Did not remove biosolids	
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) • 120 - 149 days (20 Points) • 90 - 119 days (30 Points) • < 90 days (40 Points) • 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 overall management:	

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

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024 2023

Staffing and Preventative Maintenance (All Treatment Plants)

1. Plant Staffing	
1.1 Was your wastewater treatment plant adequately staffed last year?	
Yes No	
If No, please explain:	
i No, piedse expiditi	
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:	
Preventative Maintenance 1.1 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 	0
o No (10 points)	
 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 	
o Paper file system	
o Computer system	
Both paper and computer system	
o 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 	
o No	-
4. Overall Maintenance /Repairs 4.1 Rate the overall maintenance of your wastewater plant. o Excellent	
Very good Good	
O Fair	
O Poor	
Describe your rating:	

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

System is maintained adequately.

The Utility is working on creating mutual aid agreements with neighboring PWSs that have operators so that in case of emergent situations or in just general times of need, there will be assistance.

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

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

Operator Certification and Education

- 1. Operator-In-Charge
- 1.1 Did you have a designated operator-in-charge during the report year?
- Yes (0 points)
- o No (20 points)

Name:

WADE D PETERSON

0

0

Certification No:

27076

- 2. Certification Requirements
- 2.1 In accordance with Chapter NR 114.56 and 114.57, Wisconsin Administrative Code, what level and subclass(es) were required for the operator-in-charge (OIC) to operate the wastewater treatment plant and what level and subclass(es) were held by the operator-in-charge?

Sub	SubClass Description	WWTP	OIC		
Class		Basic	OIT	Basic	Advanced
A1	Suspended Growth Processes				X
A2	Attached Growth Processes				X
A3	Recirculating Media Filters	Factor variables			
A4	Ponds, Lagoons and Natural	X			X
A5	Anaerobic Treatment Of Liquid	Alexander of			
В	Solids Separation				X
C	Biological Solids/Sludges			The state of the s	X
Р	Total Phosphorus				X
N	Total Nitrogen				
D	Disinfection				X
L	Laboratory				X
U	Unique Treatment Systems				
SS	Sanitary Sewage Collection	X	NA	X	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.)

- Yes (0 points)
- O No (20 points)
- 2.3 For wastewater treatment facilities with a registered or certified laboratory, is at least one operator that works in the laboratory certified at the basic level in the laboratory (L) subclass?
- o Yes
- O No
- N/A Wastewater treatment facility does not have a registered or certified laboratory
- 2.4 For wastewater treatment facilities that own and operate a sanitary sewage collection system, has at least one operator been designated the OIC for sanitary sewage collection system and certified at the basic level in the sanitary sewage collection system (SS) subclass?
- Yes
- O No
- o N/A Owner of the Wastewater treatment facility does not own and operate a sanitary sewage collection system
- 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)?
- \square One or more additional certified operators on staff

North Freedom Wastewater Treatment Facility

5/7/2024 2023 ☑ 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 0 ☐ None of the above (20 points) If "None of the above" is selected, please explain: 4. Continuing Education Credits 4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates? OIT and Basic Certification: Averaging 6 or more CECs per year. o Averaging less than 6 CECs per year. Advanced Certification: O Averaging 8 or more CECs per year. O Averaging less than 8 CECs per year.

Last Updated: Reporting For:

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

earned interest, etc.)

North Freedom Wastewater Treatment Facility Last Updated: Reporting For: 5/7/2024 2023 **Financial Management** 1. Provider of Financial Information Name: Nicki Breunig, Clerk/Treasurer Telephone: (608) 522-4550 (XXX) XXX-XXXX E-Mail Address (optional): clerk_treasurer@vonf.wi.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) □□ O 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: 2023 0 0-2 years ago (0 points) □□ o 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) O 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? 2023 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 \$ 87,615.59 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 87,615.59 3.2.4 Additions to Fund (e.g. portion of User Fee,

4,505.87

Number of Municipally Owned Pump/Lift Stations:

Last Updated: Reporting For: North Freedom Wastewater Treatment Facility 5/7/2024 2023 3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 0.00 3.2.6.1 below*) 3.2.6 Ending Balance as of December 31st for CMAR 92,121.46 Reporting Year 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 above. 3.3 What amount should be in your Replacement Fund? 92,121.46 0 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 O 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. □□ O No Estimated Approximate Project Description Project Cost Construction # Year 2022 1 Phosphorous rule project construction as required \$250,000 2023 \$30,000 2 Sewer line rehab. Ongoing 2024 \$30,000 Sewer line rehab. Ongoing \$30,000 2025 Sewer line rehab, Ongoing \$30,000 2026 5 Sewer line rehab. Ongoing 2024 Possible Sewer Line Relocation - County Highway PF Bridge Reconstruction \$50,000 5. Financial Management General Comments **ENERGY EFFICIENCY AND USE** 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**

2

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 **2023**

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	6,011	354
February	6,510	574
March	4,390	467
April	4,540	381
May	4,288	212
June	3,712	92
July	2,928	9
August	2,964	4
September	3,167	12
October	3,203	5
November	2,964	23
December	3,134	109
Total	47,811	2,242
Average	3,984	187

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	
■ Extended Shaft Pumps	
☑ Flow Metering and Recording	
☐ Pneumatic Pumping	
☐ SCADA System	
☑ Self-Priming Pumps	
☐ Submersible Pumps	
☐ Variable Speed Drives	
□ Other:	
6.2.2 Comments:	
6.3. He = == 5 ==== Study been performed for your nump/lift stations?	0,000
6.3 Has an Energy Study been performed for your pump/lift stations?● No	
o Yes	
Year:	
By Whom:	
Describe and Comment:	

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024 **2023**

6.4 Future	Energy	Related	Equi	pment
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6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

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	6,011	2.04	2,947	5.18	1,160	354
February	6,510	1.59	4,094	3.53	1,844	574
March	4,390	2.10	2,090	2.79	1,573	467
April	4,540	5.12	887	7.05	644	381
May	4,288	1.96	2,188	4.00	1,072	212
June	3,712	1.33	2,791	3.21	1,156	92
July	2,928	1.20	2,440	0.00		9
August	2,964	1.17	2,533	1.67	1,775	4
September	3,167	1.09	2,906	2.40	1,320	12
October	3,203	1.46	2,194	3.60	890	5
November	2,964	0.94	3,153	2.40	1,235	23
December	3,134	1.14	2,749	2.29	1,369	109
Total	47,811	21.14		38.12	100	2,242
Average	3,984	1.76	2,581	3.47	1,276	187

7.1.2 Comments:

☐ Variable Speed Drives

☑ Other:

7.2 Energy Related Processes and Equipment	
7.2.1 Indicate equipment and practices utilized at your Aerobic Digestion	our treatment facility (Check all that apply):
☐ 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	
☐ UV Disinfection	

North Freedom Wastewater Treatment Facility

2023 5/7/2024 Lagoon system 7.2.2 Comments: 7.3 Future Energy Related Equipment 7.3.1 What energy efficient equipment or practices do you have planned for the future for your treatment facility? 8. Biogas Generation 8.1 Do you generate/produce biogas at your facility? No o Yes If Yes, how is the biogas used (Check all that apply): ☐ Flared 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 o Yes ☐ Entire facility Year: By Whom: Describe and Comment: ☐ Part of the facility Year: By Whom: Describe and Comment:

Last Updated: Reporting For:

North Freedom Wastewater Treatment Facility	Last Updated:	Reporting For:
	5/7/2024	2023

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

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

Sanitary Sewer Collection Systems

 Capacity, Management, Operation, and Maintenance (CMOM) Program Do you have a CMOM program that is being implemented?
• Yes
o 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
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:
Clean 5000 feet of sewer
Did you accomplish them?
• Yes
o No
If No, explain:
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
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?
POTW Collection System Codes
If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2017-10-29
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, oil and grease control □ 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: □ Equipment and replacement part inventories
☐ Equipment and replacement part inventories ☐ Up-to-date sewer system map
☐A management system (computer database and/or file system) for collection system
information for O&M activities, investigation and rehabilitation

North Freedom Wastewater Treatment Facility Last Updated: Reporting For: 5/7/2024 2023 \square A description of routine operation and maintenance activities (see question 2 below) ☐ Capacity assessment program ☐ Basement back assessment and correction ☐ Regular O&M training $oxed{\boxtimes}$ Design and Performance Provisions [NR 210.23 (4) (e)] $\Box\Box$ 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: $oxed{oxed}$ Overflow Emergency Response Plan [NR 210.23 (4) (f)] \Box 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 \square Annual Self-Auditing of your CMOM Program [NR 210.23 (5)] \square ☐ 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. Cleaning 25 % of system/year Root removal % of system/year 1 Flow monitoring 0 % of system/year Smoke testing % of system/year Sewer line televising % of system/year Manhole inspections 25 % of system/year Lift station O&M 25 # per L.S./year Manhole rehabilitation 0 % of manholes rehabbed Mainline rehabilitation % of sewer lines rehabbed Private sewer inspections % of system/year Private sewer I/I removal % of private services

No

If Yes, please describe:

Last Updated: Reporting For: North Freedom Wastewater Treatment Facility 5/7/2024 2023 River or water % of pipe crossings evaluated or maintained crossings 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. 38.05 Total actual amount of precipitation last year in inches 38 Annual average precipitation (for your location) 9.9 Miles of sanitary sewer 2 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 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: 0.00 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) 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) OVERFLOWS REPORTED ** Cause Estimated Location Date Volume None reported ** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected. 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? o Yes

North Freedom Wastewater Treatment Facility	Last Updated: 5/7/2024	Reporting For 2023
5.3 Explain any infiltration/inflow (I/I) changes this year from previous	s vears:	
None.	700.0	
5.4 What is being done to address infiltration/inflow in your collection s	system?	

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

Sealing any manhole lids to prevent ground water from entering the system.

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024 2023

Grading Summary

WPDES No: 0028011

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	С	2	3	6
BOD/CBOD	С	2	10	20
TSS	В	3	5	15
Ammonia	Α	4	5	20
Phosphorus	Α	4	3	12
Ponds	С	2	7	14
Biosolids	А	4	5	20
Staffing/PM	Α	4	1	4
OpCert	А	4	1	4
Financial	Α	4	1	4
Collection	А	4	3	12
TOTALS	10 % 120 %		44	131
GRADE POINT AVER	RAGE (GPA) = 2.98			The system of the

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)

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

5/7/2024

2023

Resolution or Owner's Statement

Tresoration of owner s		
Name of Governing Body or Owner:		
200, 0. 0	Village of North Freedom	
Date of Resolution or Action Taken:		
	2024-06-10	
Resolution Number:	2024-004	
Date of Submittal:		
	THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR grade A or B. Required for grade C, D, or F): : Grade = C	
	stormsewer system will be more routinely monitored. Looking into flow cal, and influent formula to confirm accuracy.	
Effluent Quality: BOD: Grad	de = C	
	more routinely monitored. The implementation of the WWTF should help ted levels. If more problems arise, with the renewal of the discharge brought up for discussion.	
Effluent Quality: TSS: Grad	e = B	_
Effluent Quality: Ammonia:	Grade = A	
Effluent Quality: Phosphoru	is: Grade = A	
Ponds: Grade = C		,
Will be looking into potent	ial leakage problems.	
Biosolids Quality and Mana	gement: Grade = A	
Staffing: Grade = A		
Operator Certification: Grad	de = A]
Financial Management: Gra	ade = A	
Collection Systems: Grade (Regardless of grade, response)	= A onse required for Collection Systems if SSOs were reported)	

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)

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For: 5/7/2024

2023

G.P.A. = 2.98

The Village will continue to monitor and attempt for passing influent and effluent readings as this has been a continuous problem. The potential pond leakage is something new that we will be looking into. We are working on the WPDES renewal and will be possibly looking into a variance to help with treatment.

So passed on this	0th day of June, 2024 on a motion pr	esented by
Trustee Decina	and seconded by Tr	ustee
M. Weiland		dotee

Attest:

Nicki Breunig, Clerk/Treasurer