

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
 6/17/2022 **2021**

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	0.0430	x	200	x	8.34	=	72
February	0.0427	x	190	x	8.34	=	68
March	0.0442	x	200	x	8.34	=	74
April	0.0444	x	180	x	8.34	=	67
May	0.0406	x	340	x	8.34	=	115
June	0.0366	x	235	x	8.34	=	72
July	0.0399	x	315	x	8.34	=	105
August	0.0428	x	240	x	8.34	=	86
September	0.0370	x	200	x	8.34	=	62
October	0.0346	x	215	x	8.34	=	62
November	0.0338	x	270	x	8.34	=	76
December	0.0349	x	320	x	8.34	=	93

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	.07	x	90	=	0.063
		x	100	=	.07
Design BOD, lbs/day	133	x	90	=	119.7
		x	100	=	133

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

	Months of Influent	Number of times flow was greater than 90% of	Number of times flow was greater than 100% of	Number of times BOD was greater than 90% of design	Number of times BOD was greater 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
May	1	0	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 each		2	1	3	2
Exceedances		0	0	0	0
Points		0	0	0	0
Total Number of Points					0

0

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

<p>3. Flow Meter</p> <p>3.1 Was the influent flow meter calibrated in the last year?</p> <p><input checked="" type="radio"/> Yes Enter last calibration date (MM/DD/YYYY) 2021-10-11</p> <p><input type="radio"/> No</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>										
<p>4. Sewer Use Ordinance</p> <p>4.1 Did your community have a sewer use ordinance that limited or prohibited the discharge of excessive conventional pollutants ((C)BOD, SS, or pH) or toxic substances to the sewer from industries, commercial users, hauled waste, or residences?</p> <p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>4.2 Was it necessary to enforce the ordinance?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If Yes, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>									
<p>5. Septage Receiving</p> <p>5.1 Did you have requests to receive septage at your facility?</p> <table><tr><td>Septic Tanks</td><td>Holding Tanks</td><td>Grease Traps</td></tr><tr><td><input type="radio"/> Yes</td><td><input type="radio"/> Yes</td><td><input type="radio"/> Yes</td></tr><tr><td><input checked="" type="radio"/> No</td><td><input checked="" type="radio"/> No</td><td><input checked="" type="radio"/> No</td></tr></table>	Septic Tanks	Holding Tanks	Grease Traps	<input type="radio"/> Yes	<input type="radio"/> Yes	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input checked="" type="radio"/> No	<input checked="" type="radio"/> No	<p>5.2 Did you receive septage at your facility? If yes, indicate volume in gallons.</p> <p>Septic Tanks</p> <p><input type="radio"/> Yes <input type="text"/> gallons</p> <p><input checked="" type="radio"/> No</p> <p>Holding Tanks</p> <p><input type="radio"/> Yes <input type="text"/> gallons</p> <p><input checked="" type="radio"/> No</p> <p>Grease Traps</p> <p><input type="radio"/> Yes <input type="text"/> gallons</p> <p><input checked="" type="radio"/> No</p> <p>5.2.1 If yes to any of the above, please explain if plant performance is affected when receiving any of these wastes.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Septic Tanks	Holding Tanks	Grease Traps								
<input type="radio"/> Yes	<input type="radio"/> Yes	<input type="radio"/> Yes								
<input checked="" type="radio"/> No	<input checked="" type="radio"/> No	<input checked="" type="radio"/> No								
<p>6. Pretreatment</p> <p>6.1 Did your facility experience operational problems, permit violations, biosolids quality concerns, or hazardous situations in the sewer system or treatment plant that were attributable to commercial or industrial discharges in the last year?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If yes, describe the situation and your community's response.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?</p>									

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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. 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	21	1	0	0
February	30	27	30	1	0	1
March	30	27	46	1	1	1
April	30	27	22	1	0	0
May	30	27	31	1	1	1
June	30	27	28	1	0	1
July	30	27	22	1	0	0
August	30	27	20	1	0	0
September	30	27	23	1	0	0
October	30	27	31	1	1	1
November	30	27	25	1	0	0
December	30	27	13	1	0	0

* Equals limit if limit is ≤ 10

Months of discharge/yr	12		
Points per each exceedance with 12 months of discharge		7	3
Exceedances		3	5
Points		21	15
Total number of points			36

36

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?

These violations occurred before I was operator. I was not able to find any notes on these violations.

2. Flow Meter Calibration

2.1 Was the effluent flow meter calibrated in the last year?

Yes Enter last calibration date (MM/DD/YYYY)

2021-10-11

No

If No, please explain:

3. Treatment Problems

3.1 What problems, if any, were experienced over the last year that threatened treatment?

Annual pond rollover in the spring that causes issues with high pH and ammonia levels.

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?

Yes

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

<p><input checked="" type="radio"/> No If Yes, please explain: <input type="text"/></p> <p>4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test? <input type="radio"/> Yes <input checked="" type="radio"/> No If Yes, please explain: <input type="text"/></p> <p>4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A Please explain unless not applicable: <input type="text"/></p>
--

Total Points Generated	36
Score (100 - Total Points Generated)	64
Section Grade	D

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

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:

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	60	54	23	1	0	0
February	60	54	24	1	0	0
March	60	54	23	1	0	0
April	60	54	38	1	0	0
May	60	54	29	1	0	0
June	60	54	46	1	0	0
July	60	54	48	1	0	0
August	60	54	30	1	0	0
September	60	54	33	1	0	0
October	60	54	36	1	0	0
November	60	54	26	1	0	0
December	60	54	24	1	0	0

* Equals limit if limit is <= 10

Months of Discharge/yr	12		
Points per each exceedance with 12 months of discharge:	7	3	
Exceedances	0	0	
Points	0	0	
Total Number of Points		0	

0

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?

None

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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. 001	Monthly Average NH3 Limit (mg/L)	Weekly Average NH3 Limit (mg/L)	Effluent Monthly Average NH3 (mg/L)	Monthly Permit Limit Exceedance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceedance
January	108		8.75	0					
February	108		17	0					
March	108		19.25	0					
April	108		7.6	0					
May	108		1.465	0					
June	108		3.275	0					
July	108		6.6	0					
August	108		10.3	0					
September	108		10.725	0					
October	108		8.8	0					
November	108		6.475	0					
December	108		6.175	0					
Points per each exceedance of Monthly average:									10
Exceedances, Monthly:									0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):									2.5
Exceedances, Weekly:									0
Points:									0
Total Number of Points									0

0

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?

None

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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	4.5	3.500	1	0
February	4.5	4.025	1	0
March	4.5	4.150	1	0
April	4.5	2.800	1	0
May	4.5	2.450	1	0
June	4.5	2.600	1	0
July	4.5	3.325	1	0
August	4.5	3.650	1	0
September	4.5	3.950	1	0
October	4.5	3.775	1	0
November	4.5	3.400	1	0
December	4.5	3.725	1	0
Months of Discharge/yr			12	
Points per each exceedance with 12 months of discharge:				10
Exceedances				0
Total Number of Points				0

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?

None

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

Ponds And Lagoon Leakage

1. Pond Lining

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)
○ No Discharge (0 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.

Total Monthly Influent Volume		Total Monthly Effluent Volume
1.3328	JANUARY	1.178
1.1968	FEBRUARY	1.159
1.371	MARCH	1.306
1.331	APRIL	.817
1.2586	MAY	.72
1.0969	JUNE	.217
1.2372	JULY	.521
1.3254	AUGUST	.715
1.1093	SEPTEMBER	.446
1.0725	OCTOBER	.257
1.0131	NOVEMBER	.292
1.082	DECEMBER	.645
14.4266	YEARLY TOTAL	8.2730

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 => 8.2730

----- = 0.573 <= effl / infl ratio

Total influent, MG => 14.4266

Conversion to a percent of volume loss:
(1-effl/infl ratio) * 100 = 42.7

0

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

% of influent lost and not discharged with effluent

4. Surface Area

4.1 What was the total wastewater surface area of the ponds/lagoons at operating level (do not include seepage cells)?

9 Acres

5. Leakage Rate Estimation

5.1 Total influent volume (in MG) minus total effluent volume (in MG) plus or minus the change in pond/lagoon storage (in MG) is the net wastewater loss. The net loss divided by 0.000365 equals the estimated leakage amount in gpd.

Total Annual Influent (MG)	14.4266	
Total Annual Effluent (MG)	8.2730	
Estimated Net Loss (MG)	6.1536	
Estimated Leakage Amount (gpd)		16859

If you have a *Department approved* method for determining a change in storage volume, enter the storage change last year in MG below.

Storage Increase: Enter amount in MG ->

Storage Decrease: Enter amount in MG ->

5.2 CMAR Estimated Leakage Rate in gallons per acre per day (gpac): The CMAR Estimated Leakage Rate in gpac is the leakage amount in gpd (from part 5.1) divided by the total pond surface area (from question 4).

Leakage Amount (gpd)		Acres		CMAR Estimated Leakage Rate
16859	divided by	9	=	1873

6. On Site Leakage Testing

6.1 Did you conduct an on-site, field water balance/leakage test on your ponds or lagoons that was approved by the Department and is still valid?

Yes Year

No

If yes, what was the field Test Calculated Leakage Rate for your ponds/lagoons?

gpac

NOTE: if 6.1 is answered Yes, the value entered above in gpac will be used in 7.1 to compute points generated.

6.2 Leakage Rate Comments:

7. Estimated Leakage Rate and Points

7.1 The CMAR Estimated Leakage Rate (from 5) is used to determine the points generated in the table below.

If an approved field test was conducted and the results are still valid and accepted by the Department, the Field Calculated Leakage rate (from 5.2) is used to determine the points earned from the table below

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

gpad	points	10
0 - 1,000	0	
1,001 - 2,000	10	
2,001 - 4,000	20	
4,001 - 7,000	30	
> 7,000	40	

Based on the leakage rate in gpad, the points earned are:

Total Points Generated	10
Score (100 - Total Points Generated)	90
Section Grade	B

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

Biosolids Quality and Management

<p>1. Biosolids Use/Disposal</p> <p>1.1 How did you use or dispose of your biosolids? (Check all that apply)</p> <p><input type="checkbox"/> Land applied under your permit</p> <p><input type="checkbox"/> Publicly Distributed Exceptional Quality Biosolids</p> <p><input type="checkbox"/> Hauled to another permitted facility</p> <p><input type="checkbox"/> Landfilled</p> <p><input type="checkbox"/> Incinerated</p> <p><input checked="" type="checkbox"/> Other</p> <p>NOTE: If you did not remove biosolids from your system, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc.</p> <p>1.1.1 If you checked Other, please describe:</p> <p>Did not remove biosolids</p>	
<p>6. Biosolids Storage</p> <p>6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?</p> <p><input checked="" type="radio"/> \geq 180 days (0 Points)</p> <p><input type="radio"/> 150 - 179 days (10 Points)</p> <p><input type="radio"/> 120 - 149 days (20 Points)</p> <p><input type="radio"/> 90 - 119 days (30 Points)</p> <p><input type="radio"/> $<$ 90 days (40 Points)</p> <p><input type="radio"/> N/A (0 Points)</p> <p>6.2 If you checked N/A above, explain why.</p>	0
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <p>None</p>	

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

Staffing and Preventative Maintenance (All Treatment Plants)

<p>1. Plant Staffing</p> <p>1.1 Was your wastewater treatment plant adequately staffed last year?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p>2. Preventative Maintenance</p> <p>2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?</p> <ul style="list-style-type: none">● Yes (Continue with question 2) <input type="checkbox"/>○ No (40 points) <input type="checkbox"/> <p>If No, please explain, then go to question 3:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?</p> <ul style="list-style-type: none">● Yes○ No (10 points) <p>2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?</p> <ul style="list-style-type: none">● Yes<ul style="list-style-type: none">○ Paper file system○ Computer system● Both paper and computer system○ No (10 points)	0
<p>3. O&M Manual</p> <p>3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?</p> <ul style="list-style-type: none">● Yes○ No	
<p>4. Overall Maintenance /Repairs</p> <p>4.1 Rate the overall maintenance of your wastewater plant.</p> <ul style="list-style-type: none">○ Excellent○ Very good● Good○ Fair○ Poor <p>Describe your rating:</p> <div style="border: 1px solid black; padding: 2px;">System is maintained adequately</div>	

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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)
- No (20 points)

Name:

WADE D PETERSON

Certification No:

27076

0

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 Class	SubClass Description	WWTP	OIC		
		Basic	OIT	Basic	Advanced
A1	Suspended Growth Processes				X
A2	Attached Growth Processes				X
A3	Recirculating Media Filters				
A4	Ponds, Lagoons and Natural	X			X
A5	Anaerobic Treatment Of Liquid				
B	Solids Separation				X
C	Biological Solids/Sludges				X
P	Total Phosphorus				X
N	Total Nitrogen				
D	Disinfection				X
L	Laboratory				X
U	Unique Treatment Systems				
SS	Sanitary Sewage Collection	X	NA	X	NA

0

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)
- 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)?

- 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

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?

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

OIT and Basic Certification: <input type="radio"/> Averaging 6 or more CECs per year. <input type="radio"/> Averaging less than 6 CECs per year. Advanced Certification: <input checked="" type="radio"/> Averaging 8 or more CECs per year. <input type="radio"/> Averaging less than 8 CECs per year.	
--	--

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 150px;" type="text" value="Nicki Breung"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="608-522-4550"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="villageofnorthfreedom@gmail.com"/></p>													
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p>● Yes (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ No (40 points)</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input style="width: 80px;" type="text" value="2021"/></p> <p>● 0-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWF required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p>● Yes (0 points)</p> <p>○ No (40 points)</p>	0												
<p>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</p>													
<p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input style="width: 80px;" type="text" value="2021"/></p> <p>● 1-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A</p> <p>If N/A, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>													
<p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 35%; text-align: right;"><input style="width: 100%;" type="text" value="53,779.50"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="53,779.50"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: right;">+</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="32,490.67"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 100%;" type="text" value="53,779.50"/>	3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	\$	<input style="width: 100%;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance	\$	<input style="width: 100%;" type="text" value="53,779.50"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	<input style="width: 100%;" type="text" value="32,490.67"/>	
3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 100%;" type="text" value="53,779.50"/>											
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	\$	<input style="width: 100%;" type="text" value="0.00"/>											
3.2.3 Adjusted January 1st Beginning Balance	\$	<input style="width: 100%;" type="text" value="53,779.50"/>											
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	<input style="width: 100%;" type="text" value="32,490.67"/>											

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

<p>3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) - \$ 0.00</p> <p>3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$ 86,270.17</p> <p>All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.</p> <p>3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Reimbursement from CWF disbursement #1 for 2020 transfers</div> <p>3.3 What amount should be in your Replacement Fund? \$ 86,270.17</p> <p>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.</p> <p>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)?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>If No, please explain.</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0																								
<p>4. Future Planning</p> <p>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?</p> <p><input checked="" type="radio"/> Yes - If Yes, please provide major project information, if not already listed below. <input type="checkbox"/> <input type="checkbox"/></p> <p><input type="radio"/> No</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">Project #</th> <th style="width: 65%;">Project Description</th> <th style="width: 15%;">Estimated Cost</th> <th style="width: 15%;">Approximate Construction Year</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Phosphorous rule project construction as required</td> <td>250000</td> <td>2022</td> </tr> <tr> <td>2</td> <td>Sewer line rehab. Ongoing</td> <td>30000</td> <td>2023</td> </tr> <tr> <td>3</td> <td>Sewer line rehab. Ongoing</td> <td>30000</td> <td>2024</td> </tr> <tr> <td>4</td> <td>Sewer line rehab. Ongoing</td> <td>30000</td> <td>2025</td> </tr> <tr> <td>5</td> <td>Sewer line rehab. Ongoing</td> <td>30000</td> <td>2026</td> </tr> </tbody> </table>		Project #	Project Description	Estimated Cost	Approximate Construction Year	1	Phosphorous rule project construction as required	250000	2022	2	Sewer line rehab. Ongoing	30000	2023	3	Sewer line rehab. Ongoing	30000	2024	4	Sewer line rehab. Ongoing	30000	2025	5	Sewer line rehab. Ongoing	30000	2026
Project #	Project Description	Estimated Cost	Approximate Construction Year																						
1	Phosphorous rule project construction as required	250000	2022																						
2	Sewer line rehab. Ongoing	30000	2023																						
3	Sewer line rehab. Ongoing	30000	2024																						
4	Sewer line rehab. Ongoing	30000	2025																						
5	Sewer line rehab. Ongoing	30000	2026																						
<p>5. Financial Management General Comments</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">At this time funds are available to continue maintenance projects.</div>																									
<p>ENERGY EFFICIENCY AND USE</p> <p>6. Collection System</p> <p>6.1 Energy Usage</p> <p>6.1.1 Enter the monthly energy usage from the different energy sources:</p> <p>COLLECTION SYSTEM PUMPAGE: Total Power Consumed</p> <p>Number of Municipally Owned Pump/Lift Stations: <input style="width: 50px;" type="text" value="2"/></p>																									

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	3,938	295
February	4,346	459
March	5,159	697
April	4,229	364
May	3,418	145
June	2,962	74
July	2,604	8
August	3,105	5
September	2,819	3
October	2,771	13
November	2,861	8
December	3,132	87
Total	41,344	2,158
Average	3,445	180

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

No

Yes

Year:

By Whom:

Describe and Comment:

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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?

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	3,938	1.33	2,961	2.23	1,766	295
February	4,346	1.20	3,622	1.90	2,287	459
March	5,159	1.37	3,766	2.29	2,253	697
April	4,339	1.33	3,262	2.01	2,159	364
May	3,418	1.26	2,713	3.57	957	145
June	2,962	1.10	2,693	2.16	1,371	74
July	2,604	1.24	2,100	3.26	799	8
August	3,105	1.33	2,335	2.67	1,163	5
September	2,819	1.11	2,540	1.86	1,516	3
October	2,771	1.07	2,590	1.92	1,443	13
November	2,861	1.01	2,833	2.28	1,255	8
December	3,132	1.08	2,900	2.88	1,088	87
Total	41,454	14.43		29.03		2,158
Average	3,455	1.20	2,860	2.42	1,505	180

7.1.2 Comments:

7.2 Energy Related Processes and Equipment

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

- 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
- UV Disinfection
- Variable Speed Drives
- Other:

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

Lagoon system

7.2.2 Comments:

None - Lagoon system

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?

None

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):

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

Yes

Entire facility

Year:

By Whom:

Describe and Comment:

Part of the facility

Year:

By Whom:

Describe and Comment:

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

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

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:

Clean 5000 feet of sewer

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?

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

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

A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

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:

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
 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 Management Plan (SECAP)
 Lift Station Evaluation Report
 Others:

0

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	<input type="text" value="25"/>	% of system/year
Root removal	<input type="text" value="1"/>	% of system/year
Flow monitoring	<input type="text" value="0"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="0"/>	% of system/year
Manhole inspections	<input type="text" value="25"/>	% of system/year
Lift station O&M	<input type="text" value="25"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="0"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="0"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="0"/>	% of system/year
Private sewer I/I removal	<input type="text" value="0"/>	% of private services

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 **2021**

River or water crossings % 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.

25.48	Total actual amount of precipitation last year in inches
39.1	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 **			
Date	Location	Cause	Estimated 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?

- 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:

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:

6/17/2022

2021

<input type="text"/>
5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:
<input type="text" value="None"/>
5.4 What is being done to address infiltration/inflow in your collection system?
<input type="text" value="Sealing manhole lids to prevent ground water from entering system"/>

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

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 2021

Grading Summary

WPDES No: 0028011

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	D	1	10	10
TSS	A	4	5	20
Ammonia	A	4	5	20
Phosphorus	A	4	3	12
Ponds	B	3	7	21
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			44	139
GRADE POINT AVERAGE (GPA) = 3.16				

Notes:

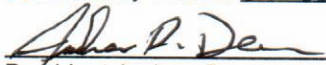

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

Compliance Maintenance Annual Report

North Freedom Wastewater Treatment Facility

Last Updated: Reporting For:
6/17/2022 2021

Resolution or Owner's Statement

Name of Governing Body or Owner:	<input type="text"/>	So passed on this 11th day of July, 2022 on a motion presented by Trustee <u>B. Schwarz</u> and seconded by Trustee <u>M. Weiland</u> .
Date of Resolution or Action Taken:	<input type="text"/>	 President Andrew Dear
Resolution Number:	<input type="text"/>	Attest:
Date of Submittal:	<input type="text"/>	 Nicki Breunig, Clerk/Treasurer

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Influent Flow and Loadings: Grade = A	<input type="text"/>
Effluent Quality: BOD: Grade = D	<input type="text"/>
Effluent Quality: TSS: Grade = A	<input type="text"/>
Effluent Quality: Ammonia: Grade = A	<input type="text"/>
Effluent Quality: Phosphorus: Grade = A	<input type="text"/>
Ponds: Grade = B	<input type="text"/>
Biosolids Quality and Management: Grade = A	<input type="text"/>
Staffing: Grade = A	<input type="text"/>
Operator Certification: Grade = A	<input type="text"/>
Financial Management: Grade = A	<input type="text"/>
Collection Systems: Grade = A (Regardless of grade, response required for Collection Systems if SSOs were reported)	<input type="text"/>

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. = 3.16