

Compliance Maintenance Annual Report

Chippewa Falls Wwtp

Last Updated: Reporting For:
6/20/2019 **2018**

Influent Flow and Loading

1. Monthly Average Flows and (C)BOD Loadings

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

Influent No. 701	Influent Monthly Average Flow, MGD	x	Influent Monthly Average (C)BOD Concentration mg/L	x	8.34	=	Influent Monthly Average (C)BOD Loading, lbs/day
January	2.2457	x	313	x	8.34	=	5,858
February	2.2165	x	327	x	8.34	=	6,050
March	2.1694	x	311	x	8.34	=	5,630
April	2.4997	x	282	x	8.34	=	5,883
May	2.4249	x	284	x	8.34	=	5,753
June	2.6303	x	266	x	8.34	=	5,845
July	2.2041	x	319	x	8.34	=	5,863
August	2.1512	x	341	x	8.34	=	6,113
September	2.2840	x	323	x	8.34	=	6,154
October	2.4612	x	278	x	8.34	=	5,709
November	2.2699	x	278	x	8.34	=	5,254
December	2.0750	x	288	x	8.34	=	4,979

2. Maximum Monthly Design Flow and Design (C)BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	7.18	x	90	=	6.462
		x	100	=	7.18
Design (C)BOD, lbs/day	5330	x	90	=	4797
		x	100	=	5330

2.2 Verify the number of times the flow and (C)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 (C)BOD was greater than 90% of design	Number of times (C)BOD was greater than 100% of design
January	1	0	0	1	1
February	1	0	0	1	1
March	1	0	0	1	1
April	1	0	0	1	1
May	1	0	0	1	1
June	1	0	0	1	1
July	1	0	0	1	1
August	1	0	0	1	1
September	1	0	0	1	1
October	1	0	0	1	1
November	1	0	0	1	0
December	1	0	0	1	0
Points per each		2	1	3	2
Exceedances		0	0	12	10
Points		0	0	36	20
Total Number of Points					56

56

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3. Flow Meter

3.1 Was the influent flow meter calibrated in the last year?
 Yes Enter last calibration date (MM/DD/YYYY)

No

If No, please explain:

4. Sewer Use Ordinance

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?

Yes

No

If No, please explain:

4.2 Was it necessary to enforce the ordinance?

Yes

No

If Yes, please explain:

5. Septage Receiving

5.1 Did you have requests to receive septage at your facility?

Septic Tanks

Holding Tanks

Grease Traps

Yes

Yes

Yes

No

No

No

5.2 Did you receive septage at your facility? If yes, indicate volume in gallons.

Septic Tanks

Yes gallons

No

Holding Tanks

Yes gallons

No

Grease Traps

Yes gallons

No

5.2.1 If yes to any of the above, please explain if plant performance is affected when receiving any of these wastes.

6. Pretreatment

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?

Yes

No

If yes, describe the situation and your community's response.

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<div data-bbox="133 205 1461 260" style="border: 1px solid black; height: 26px;"></div> <p>6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?</p> <ul style="list-style-type: none">● Yes○ No <p>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.</p> <div data-bbox="133 443 1461 590" style="border: 1px solid black; padding: 5px;"><p>7,178,756 gallons of active sector leachate and 2,481,485 gallons of non-active sector leachate were received. We limit the daily volume based on strength and WWTP performance. Randomly sample loads for BOD SS TP NH3. Receive copies of results of required testing performed by the landfill operators.</p></div>

Total Points Generated	56
Score (100 - Total Points Generated)	44
Section Grade	F

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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	25	22.5				
February	25	22.5				
March	25	22.5				
April	25	22.5				
May	25	22.5				
June	25	22.5				
July	25	22.5				
August	25	22.5				
September	25	22.5				
October	25	22.5				
November	25	22.5				
December	25	22.5				
Outfall No. 004	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	25	22.5	9	1	0	0
February	25	22.5	7	1	0	0
March	25	22.5	6	1	0	0
April	25	22.5	6	1	0	0
May	25	22.5	5	1	0	0
June	25	22.5	4	1	0	0
July	25	22.5	5	1	0	0
August	25	22.5	5	1	0	0
September	25	22.5	3	1	0	0
October	25	22.5	4	1	0	0
November	25	22.5	3	1	0	0
December	25	22.5	3	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

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?

0

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<p>2. Flow Meter Calibration</p> <p>2.1 Was the effluent flow meter calibrated in the last year?</p> <p><input type="radio"/> Yes Enter last calibration date (MM/DD/YYYY)</p> <div style="border: 1px solid black; width: 150px; height: 20px; margin-left: 100px;"></div> <p><input checked="" type="radio"/> No</p> <p>If No, please explain:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Effluent meter was adjusted several times throughout the year to match the Influent Flow Meter rate. Effluent meter accuracy is affected by weather changes. </div>	
<p>3. Treatment Problems</p> <p>3.1 What problems, if any, were experienced over the last year that threatened treatment?</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Unaccounted for intermittent spikes in Influent loading of BOD and TP, leading to some high individual daily effluent values. </div>	
<p>4. Other Monitoring and Limits</p> <p>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?</p> <p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>If Yes, please explain:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Effluent pH violation 11/10/2018, 5.8 SU, cause unknown. Effluent pH on surrounding days good, pH of proceeding process, Primary Treatment Effluent, 6.8 SU. </div> <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?</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: 25px; margin-top: 5px;"></div> <p>4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p> <p>Please explain unless not applicable:</p> <div style="border: 1px solid black; height: 25px; margin-top: 5px;"></div>	

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

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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	30	27				
February	30	27				
March	30	27				
April	30	27				
May	30	27				
June	30	27				
July	30	27				
August	30	27				
September	30	27				
October	30	27				
November	30	27				
December	30	27				
Outfall No. 004	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	7	1	0	0
February	30	27	6	1	0	0
March	30	27	5	1	0	0
April	30	27	6	1	0	0
May	30	27	5	1	0	0
June	30	27	4	1	0	0
July	30	27	6	1	0	0
August	30	27	5	1	0	0
September	30	27	4	1	0	0
October	30	27	4	1	0	0
November	30	27	4	1	0	0
December	30	27	4	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?

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

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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. 004	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1.4	1.350	1	0
February	1.4	0.772	1	0
March	1.4	0.508	1	0
April	1.4	0.647	1	0
May	1.4	0.751	1	0
June	1.4	0.301	1	0
July	1.4	0.720	1	0
August	1.4	1.193	1	0
September	1.4	0.603	1	0
October	1.4	0.452	1	0
November	1.4	0.572	1	0
December	1.4	0.704	1	0
Outfall No. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1.4			
February	1.4			
March	1.4			
April	1.4			
May	1.4			
June	1.4			
July	1.4			
August	1.4			
September	1.4			
October	1.4			
November	1.4			
December	1.4			
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?

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

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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:

2. Land Application Site

2.1 Last Year's Approved and Active Land Application Sites

2.1.1 How many acres did you have?

2614.40 acres

2.1.2 How many acres did you use?

acres

2.2 If you did not have enough acres for your land application needs, what action was taken?

2.3 Did you overapply nitrogen on any of your approved land application sites you used last year?

Yes (30 points)

No

2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?

Yes

No (10 points)

N/A

10

3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year.

Outfall No. 007 - CAKE SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75	<1.6			2.7			2.9					<1.9		0	0
Cadmium		39	85	.77			.7			.74					.71		0	0
Copper		1500	4300	770			840			980					840		0	0
Lead		300	840	13			14			17					18		0	0
Mercury		17	57	<.022			.42			<.24					<.29		0	0
Molybdenum	60		75	44			61			42					61	2		0
Nickel	336		420	16			16			18					18	0		0
Selenium	80		100	4.2			4.9			4.6					8	0		0
Zinc		2800	7500	540			420			590					550		0	0

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Outfall No. 006 - LIQUID SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75														0	0
Cadmium		39	85														0	0
Copper		1500	4300														0	0
Lead		300	840														0	0
Mercury		17	57														0	0
Molybdenum	60		75													0		0
Nickel	336		420													0		0
Selenium	80		100													0		0
Zinc		2800	7500														0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 2

Exceedence Points

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

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

- Yes
- No (10 points)
- N/A - Did not exceed limits or no HQ limit applies (0 points)
- N/A - Did not land apply biosolids until limit was met (0 points)

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

Exceedence Points

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

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

- Yes (20 Points)
- No (0 Points)

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

4. Pathogen Control (per outfall):

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

Outfall Number:	007
Biosolids Class:	B
Bacteria Type and Limit:	
Sample Dates:	01/01/2018 - 03/31/2018
Density:	
Sample Concentration Amount:	
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Anaerobic Digestion at >94 degrees and MCRT of > 15 days, verified by 30 day rolling average detention time and continuous temperature monitoring and daily temperature

0

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Outfall Number:	007
Biosolids Class:	B
Bacteria Type and Limit:	
Sample Dates:	04/01/2018 - 06/30/2018
Density:	
Sample Concentration Amount:	
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Anaerobic Digestion at >94 degrees and MCRT of > 15 days, verified by 30 day rolling average detention time and continuous temperature monitoring and daily temperature recording.

Outfall Number:	007
Biosolids Class:	B
Bacteria Type and Limit:	
Sample Dates:	07/01/2018 - 09/30/2018
Density:	
Sample Concentration Amount:	
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Anaerobic Digestion at >94 degrees and MCRT of > 15 days, verified by 30 day rolling average detention time and continuous temperature monitoring and daily temperature recording.

Outfall Number:	007
Biosolids Class:	B
Bacteria Type and Limit:	
Sample Dates:	10/01/2018 - 12/31/2018
Density:	
Sample Concentration Amount:	
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Anaerobic Digestion at >94 degrees and MCRT of > 15 days, verified by 30 day rolling average detention time and continuous temperature monitoring, an daily temperature recording.

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.

4.2.1 Was the limit exceeded or the process criteria not met at the time of land application?

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<input type="radio"/> Yes (40 Points) <input checked="" type="radio"/> No If yes, what action was taken? <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0
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5. Vector Attraction Reduction (per outfall):
 5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	007
Method Date:	01/09/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	59

Outfall Number:	007
Method Date:	04/17/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	45

Outfall Number:	007
Method Date:	07/11/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	49

Outfall Number:	007
Method Date:	10/30/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	45

5.2 Was the limit exceeded or the process criteria not met at the time of land application?

<input type="radio"/> Yes (40 Points) <input checked="" type="radio"/> No If yes, what action was taken? <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0
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6. Biosolids Storage

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<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> <ul style="list-style-type: none"><input checked="" type="radio"/> \geq 180 days (0 Points)<input type="radio"/> 150 - 179 days (10 Points)<input type="radio"/> 120 - 149 days (20 Points)<input type="radio"/> 90 - 119 days (30 Points)<input type="radio"/> $<$ 90 days (40 Points)<input type="radio"/> N/A (0 Points) <p>6.2 If you checked N/A above, explain why.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	0
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	

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

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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"/><input type="checkbox"/>○ No (40 points) <input type="checkbox"/><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>	

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Operators are very diligent at keeping up with preventative maintenance. We do some equipment replacement in-house. Housekeeping and organizations is a little sloppy. Increased Loadings making it difficult to find equipment down time to perform some maintenance tasks.

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

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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:

FRED G HOBBS

Certification No:

21312

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

2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS, N and A5 not required in 2018; subclass SS is basic level only.)

- Yes (0 points)
- No (20 points)

0

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

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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.
- Averaging less than 6 CECs per year.

Advanced Certification:

- Averaging 8 or more CECs per year.
- Averaging less than 8 CECs per year.

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

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Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 150px;" type="text" value="Connie Freagon"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="(715) 726-2743"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 150px;" type="text"/></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?</p> <p>Year: <input style="width: 100px;" type="text" value="2018"/></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., CFWP 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?</p> <p>Year: <input style="width: 100px;" type="text" value="2018"/></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: 150px;" type="text" value="3,363,106.00"/></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: 150px;" 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: 150px;" type="text" value="3,363,106.00"/></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: 150px;" type="text" value="169,302.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 150px;" type="text" value="3,363,106.00"/>	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: 150px;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance	\$	<input style="width: 150px;" type="text" value="3,363,106.00"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	<input style="width: 150px;" type="text" value="169,302.00"/>	
3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 150px;" type="text" value="3,363,106.00"/>											
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: 150px;" type="text" value="0.00"/>											
3.2.3 Adjusted January 1st Beginning Balance	\$	<input style="width: 150px;" type="text" value="3,363,106.00"/>											
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	<input style="width: 150px;" type="text" value="169,302.00"/>											

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) -

\$ 0.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year

\$ 3,532,408.00

All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

3.3 What amount should be in your Replacement Fund?

\$ 3,532,408.00

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
- No

If No, please explain.

4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

- Yes - If Yes, please provide major project information, if not already listed below.
- No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	Aeration Blower upgrade, Return Sludge Pumping capacity increase, WWTP electrical update.	2,400,000	2021

5. Financial Management General Comments

None

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

Number of Municipally Owned Pump/Lift Stations:

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	44,203	2,815
February	44,487	2,643
March	43,860	1,386
April	38,356	1,506
May	39,633	1,413
June	29,979	1,185
July	28,390	1,094
August	23,069	1,033
September	23,324	1,040
October	25,305	1,037
November	31,741	1,286
December	36,553	1,564
Total	408,900	18,002
Average	34,075	1,500

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:

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Two major lift station facilities were reviewed.
One of the stations was moved to water pumping rate structure by Xcel Energy.
VFDs were installed in the other facility.

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?

Replace extended shaft pumps.

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	160,253	69.62	2,302	181.60	882	8,167
February	159,517	62.06	2,570	169.40	942	6,812
March	165,096	67.25	2,455	174.53	946	4,964
April	151,205	74.99	2,016	176.49	857	10,143
May	152,533	75.17	2,029	178.34	855	3,343
June	186,491	78.91	2,363	175.35	1,064	303
July	179,288	68.33	2,624	181.75	986	39
August	174,350	66.69	2,614	189.50	920	36
September	192,701	68.52	2,812	184.62	1,044	41
October	178,473	76.30	2,339	176.98	1,008	1,587
November	175,442	68.10	2,576	157.62	1,113	4,068
December	201,254	64.33	3,128	154.35	1,304	7,757
Total	2,076,603	840.27		2,100.53		47,260
Average	173,050	70.02	2,486	175.04	993	3,938

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

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- Nitrification
- SCADA System
- UV Disinfection
- Variable Speed Drives
- Other:

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?

Possible replacement of an aeration blower with a high efficiency model.
Install LEDs outside and inside.

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:

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Describe and Comment:

Anaerobic Digester Methane Gas Usage Study. Led to installation of new digester heating boiler and 2 micro turbines. Study was reviewed in 2015 by another firm, lead to decommissioning micro turbines, CHP, as energy savings are less then micro turbine replacement and maintenance costs.

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

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Sanitary Sewer Collection Systems

1. Capacity, Management, Operation, and Maintenance (CMOM) Program

1.1 Do you have a CMOM program that is being implemented?

- Yes
- 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:

Promote safety by ensuring all employees are up to date with safety procedures and equipment.
Clean 33% of the collecting mains.

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?

Municipal Code Chapter 13

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY)

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

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- A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation
- A description of routine operation and maintenance activities (see question 2 below)
- Capacity assessment program
- Basement back assessment and correction
- Regular O&M training

Design and Performance Provisions [NR 210.23 (4) (e)]

What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?

- State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
- Construction, Inspection, and Testing
- Others:

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 style="width: 50px; text-align: right;" type="text" value="33"/>	% of system/year
Root removal	<input style="width: 50px; text-align: right;" type="text" value="17"/>	% of system/year
Flow monitoring	<input style="width: 50px; text-align: right;" type="text" value="0"/>	% of system/year
Smoke testing	<input style="width: 50px; text-align: right;" type="text" value="0"/>	% of system/year
Sewer line televising	<input style="width: 50px; text-align: right;" type="text" value="3"/>	% of system/year
Manhole inspections	<input style="width: 50px; text-align: right;" type="text" value="0"/>	% of system/year
Lift station O&M	<input style="width: 50px; text-align: right;" type="text" value="52"/>	# per L.S./year
Manhole rehabilitation	<input style="width: 50px; text-align: right;" type="text" value="1"/>	% of manholes rehabbed
Mainline rehabilitation	<input style="width: 50px; text-align: right;" type="text" value="1.3"/>	% of sewer lines rehabbed
Private sewer inspections	<input style="width: 50px; text-align: right;" type="text" value=".01"/>	% of system/year

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Private sewer I/I removal % of private services

River or water crossings % of pipe crossings evaluated or maintained

Please include additional comments about your sanitary sewer collection system below:

Root cutting percentage high as hydraulic root cutter is used for some general cleaning.

3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

<input type="text" value="35.1"/>	Total actual amount of precipitation last year in inches
<input type="text" value="32.1"/>	Annual average precipitation (for your location)
<input type="text" value="78"/>	Miles of sanitary sewer
<input type="text" value="13"/>	Number of lift stations
<input type="text" value="0"/>	Number of lift station failures
<input type="text" value="1"/>	Number of sewer pipe failures
<input type="text" value="7"/>	Number of basement backup occurrences
<input type="text" value="14"/>	Number of complaints
<input type="text" value="2.303"/>	Average daily flow in MGD (if available)
<input type="text" value="2.630"/>	Peak monthly flow in MGD (if available)
<input type="text" value=".588"/>	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

<input type="text" value="0.00"/>	Lift station failures (failures/year)
<input type="text" value="0.01"/>	Sewer pipe failures (pipe failures/sewer mile/yr)
<input type="text" value="0.00"/>	Sanitary sewer overflows (number/sewer mile/yr)
<input type="text" value="0.09"/>	Basement backups (number/sewer mile)
<input type="text" value="0.18"/>	Complaints (number/sewer mile)
<input type="text" value="1.1"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="0.3"/>	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)
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:

Winter flow value 2.2MGD, Spring and Fall values 2.6 and 2.9MGD and correlate to elevated ground water levels.

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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:

Return Activated Sludge pumping capacity insufficient to maintain necessary Return Sludge Flow to Influent Flow ratio.

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

Same

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

Replaced clay tile sewers with PVC in area with high ground water/high infiltration.

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

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Grading Summary

WPDES No: 0023604

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	F	0	3	0
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	C	2	5	10
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			32	106
GRADE POINT AVERAGE (GPA) = 3.31				

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)

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Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Chippewa Falls

Date of Resolution or
Action Taken:

06/18/2019

Resolution Number:

2019-32

Date of Submittal:

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 = F

As no Effluent issue were caused by the BOD loading, we will continue to monitor Influent loadings and Facility performance.
Complete the study currently underway with the intention of re-rating the facility organic loading capacity and/or identify possible equipment upgrades which would help make the re-rating possible.

Effluent Quality: BOD: Grade = A

Effluent Quality: TSS: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = C

Investigate and try to identify the cause of the sight increase in Molybdenum in the BioSolids.

Staffing: Grade = A

Operator Certification: Grade = A

Financial Management: Grade = A

Collection Systems: Grade = A

(Regardless of grade, response 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)

G.P.A. = 3.31