

Compliance Maintenance Annual Report

La Crosse City

Last Updated: Reporting For:
5/29/2019 **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	9.5180	x	315	x	8.34	=	24,966
February	10.0229	x	315	x	8.34	=	26,370
March	9.5451	x	331	x	8.34	=	26,316
April	10.2607	x	301	x	8.34	=	25,715
May	12.4601	x	253	x	8.34	=	26,258
June	11.7399	x	266	x	8.34	=	26,051
July	12.7377	x	238	x	8.34	=	25,266
August	5.8482	x	258	x	8.34	=	12,593
September	5.0509	x	277	x	8.34	=	11,649
October	5.2322	x	258	x	8.34	=	11,246
November	5.1135	x	276	x	8.34	=	11,765
December	4.7219	x	267	x	8.34	=	10,506

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	20	x	90	=	18
		x	100	=	20
Design (C)BOD, lbs/day	29793	x	90	=	26813.7
		x	100	=	29793

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	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

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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:

The Influent meter went out of calibration in August 2018 and is not repairable we are planning a project to replace meter this year. This is a project that can only be done when River Stage is below 9'. Delayed until River Stage goes down.

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:

City Brewery was out of compliance and issued 3 NOV's in 2018, 2019 we issued a compliance order to City Brewery in conjunction they provided a corrective action plan. We also issued SNC's to City Brewery, Great Lakes Cheese, Aarmark, & Kwik Trip in 2018.

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.

We sample trucked waste the first week of each quarter in 2018 to determine the baselines are correct for the waste stream. We also require analytical results before any new waste stream are accepted at the WWTP. We currently have some issues handling the Grease trap waste from the way we receive it. In facility planning we hope to have a better receiving area for this type of waste stream.

6. Pretreatment

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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.

6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?

- 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.

La Crosse WWTP accepts Industrial Waste, trucked to the WWTP and from collection system. Pretreatment program regulates the Industrial waste treated at WWTP and the trucked waste treated. Industries are permitted using guidance and follow Sanitary Sewer Ordinance DNR regulation provides support to the program. We receive Leachate from Lacrosse County Landfill through the Sewer collection system and is regulated. We also excepted a large amount of Leachate from Dairy land Power which is regulated through Pretreatment program.

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

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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	4	1	0	0
February	25	22.5	6	1	0	0
March	25	22.5	4	1	0	0
April	25	22.5	3	1	0	0
May	25	22.5	4	1	0	0
June	25	22.5	3	1	0	0
July	25	22.5	3	1	0	0
August	25	22.5	3	1	0	0
September	25	22.5	3	1	0	0
October	25	22.5	3	1	0	0
November	25	22.5	4	1	0	0
December	25	22.5	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

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?

2. Flow Meter Calibration

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

- Yes

Enter last calibration date (MM/DD/YYYY)

10/29/2018

- No

If No, please explain:

3. Treatment Problems

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

No problems with treatment. City Brewing Company LLC provides challenges to operate WWTP efficiently. Though WWTP treatment numbers are good, we continue to work closely with City Brewing Company LLC

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?

0

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<p><input type="radio"/> Yes <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>
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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 (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	7	1	0	0
February	30	27	11	1	0	0
March	30	27	6	1	0	0
April	30	27	5	1	0	0
May	30	27	6	1	0	0
June	30	27	4	1	0	0
July	30	27	3	1	0	0
August	30	27	4	1	0	0
September	30	27	4	1	0	0
October	30	27	6	1	0	0
November	30	27	6	1	0	0
December	30	27	7	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?

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. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1	0.391	1	0
February	1	0.498	1	0
March	1	0.504	1	0
April	1	0.346	1	0
May	1	0.483	1	0
June	1	0.347	1	0
July	1	0.307	1	0
August	1	0.494	1	0
September	1	0.352	1	0
October	1	0.571	1	0
November	1	0.606	1	0
December	1	0.376	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?

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?

6857.30 acres

2.1.2 How many acres did you use?

918.7 acres

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

We used permitted Land in Minnesota for disposal and reported to Wisconsin DNR as other methods.

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

30

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. 003 - 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		1.16		4.96		3.98		4.16		3.9		4		0	0
Cadmium		39	85		.624		2.57		3.63		3.38		2.82		1.9		0	0
Copper		1500	4300		676		712		662		692		799		773		0	0
Lead		300	840		5.29		21		20.2		20.3		20.6		19.7		0	0
Mercury		17	57		.326		.983		<1.43		<1.5		<1.56		<1.49		0	0
Molybdenum	60		75		3.69		15.2		16.9		20.3		22.9		22.4	0		0
Nickel	336		420		6.89		33.9		26.3		25.5		23.2		17.7	0		0
Selenium	80		100		1.22		6.13		3.63		2.92		4.51		3.51	0		0
Zinc		2800	7500		925		950		991		1020		1160		1120		0	0

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Outfall No. 002 - 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	0		0		3.78			4.4		4.38	0			0	0
Cadmium		39	85	0		0		2.24			2.28		2.09	0			0	0
Copper		1500	4300	0		0		715			678		667	0			0	0
Lead		300	840	0		0		20			24.6		17.7	0			0	0
Mercury		17	57	0		0		<.573			.694		<.41	0			0	0
Molybdenum	60		75	0		0		14.8			21.1		18.7	0		0		0
Nickel	336		420	0		0		26.6			26.1		22.4	0		0		0
Selenium	80		100	0		0		6.78			4.91		2.72	0		0		0
Zinc		2800	7500	0		0		958			1020		990	0			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 = 0

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:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2018 - 06/30/2018
Density:	6,150
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

0

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Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 08/31/2018
Density:	708
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	09/01/2018 - 10/31/2018
Density:	164,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2018 - 02/28/2018
Density:	32,400
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process

Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	03/01/2018 - 04/30/2018
Density:	16,800
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

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Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2018 - 06/30/2018
Density:	2,394
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 08/31/2018
Density:	381
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	09/01/2018 - 10/31/2018
Density:	212
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

Outfall Number:	003
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	11/01/2018 - 12/31/2018
Density:	19,400
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Sludge is mixed and heated to 95 degrees in the anaerobic digestion process.

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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?

Yes (40 Points)

No

If yes, what action was taken?

0

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:	002
Method Date:	06/01/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	60.10

Outfall Number:	002
Method Date:	08/01/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	57.30

Outfall Number:	002
Method Date:	10/01/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	59.90

Outfall Number:	003
Method Date:	02/01/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>= 38
Results (if applicable):	64.10

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Outfall Number:	003
Method Date:	04/01/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>= 38
Results (if applicable):	64.70

Outfall Number:	003
Method Date:	05/01/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	59.70

Outfall Number:	003
Method Date:	07/02/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	58.80

Outfall Number:	003
Method Date:	09/03/2019
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	61.60

Outfall Number:	003
Method Date:	12/01/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	51

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

Yes (40 Points)

No

If yes, what action was taken?

6. Biosolids Storage

0

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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"/> >= 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) <p>6.2 If you checked N/A above, explain why.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>0</p>
<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; padding: 5px;"> <p>2018 was a challenging year for Biosolids Disposal because of the excessive rain. During this time frame the contractor pushed to move a lot of material in a small window resulting in a miss communication between operators and field tech team. This resulted in some over applications of Nitrogen. Contractor was up front notified La Crosse and we forwarded response to DNR for notification. We currently working on facility planning to address these unusual wet conditions. NOTE we Lost 30 Points for Over applying on a Couple of fields.</p> </div>	

Total Points Generated	30
Score (100 - Total Points Generated)	70
Section Grade	D

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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; padding: 5px;">In the near future when we filter effluent for phosphorus compliance, heat dry biosolids for class A sludge, and use methane for energy. This equipment will require more maintenance and we'll need more staff to maintain.</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	

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Describe your rating:

Lacrosse WWTP is an older WWTP and it still performs well, we continue to upgrade equipment, La Crosse has rehab 3 out 4 anaerobic digesters, and are in the process of completing the 4th in 2019 these are larger dollar amount projects. We are near completion of facility planning to address: low level phosphorus, Biosolids management, and enhancement of anerobic digestion for better solids destruction and enhance methane gas production.

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:

JARED R GREENO

Certification No:

31667

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				
A3	Recirculating Media Filters				
A4	Ponds, Lagoons and Natural				
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				
SS	Sanitary Sewage Collection	X	NA	NA	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, N and A5 not required in 2018; subclass SS is basic level only.)

- 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

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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 Name: <input style="width: 150px;" type="text" value="Jared Greeno"/> Telephone: <input style="width: 150px;" type="text" value="608-789-7322"/> (XXX) XXX-XXXX E-Mail Address (optional): <input style="width: 300px;" type="text" value="greenoja@cityoflacrosse.org"/></p>													
<p>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 ? <input checked="" type="radio"/> Yes (0 points) <input type="checkbox"/> <input type="radio"/> No (40 points) If No, please explain: <input style="width: 800px; height: 20px;" type="text"/> 2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input style="width: 100px;" type="text" value="2018"/> <input checked="" type="radio"/> 0-2 years ago (0 points) <input type="checkbox"/> <input type="radio"/> 3 or more years ago (20 points) <input type="checkbox"/> <input type="radio"/> N/A (private facility) 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? <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points)</p>	0												
REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]													
<p>3. Equipment Replacement Funds 3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input style="width: 100px;" type="text" value="2018"/> <input checked="" type="radio"/> 1-2 years ago (0 points) <input type="checkbox"/> <input type="radio"/> 3 or more years ago (20 points) <input type="checkbox"/> <input type="radio"/> N/A If N/A, please explain: <input style="width: 800px; height: 20px;" type="text"/> 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: center;"><input style="width: 150px;" type="text" value="3,205,014.08"/></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: center;"><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: center;"><input style="width: 150px;" type="text" value="3,205,014.08"/></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: center;"><input style="width: 150px;" type="text" value="532,956.29"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 150px;" type="text" value="3,205,014.08"/>	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="3,205,014.08"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$	<input style="width: 150px;" type="text" value="532,956.29"/>	
3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 150px;" type="text" value="3,205,014.08"/>											
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="3,205,014.08"/>											
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$	<input style="width: 150px;" type="text" value="532,956.29"/>											

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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

\$ 3,737,970.37

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? \$ 1,044,667.41

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	Rehab and replacement of sewer main	594000	2018
2	Rehab digester # 1 this will be the last of 4 digester to rehab.	1000000	2019
3	Add and additional Sanitary lift station pump at New Hagar Lift station.	65000	2019
4	Upgrade Final Clarifiers to help reduce solids in effluent one of the projects to help reduce phosphorus	2500000	2021
5	Install Disk Filters on Effluent for low Level Phosphorus removal.	6,000,000	2021
6	Enhance BNR System for better phosphorus and nitrogen removal.	5,000,000	2021

5. Financial Management General Comments

Sanitary Sewer Utility works from a cash fund, plans and schedules projects budgets then reflect projects. We'll be completing a updated rate Study this year 2019. To include the increased cost of Low Level Phosphorus compliance and Biosolids management planning.

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	85,995	1,176
February	75,188	938
March	65,830	671
April	64,551	460
May	73,442	79
June	69,789	49
July	73,123	43
August	61,194	38
September	61,585	66
October	67,304	203
November	74,006	664
December	78,608	841
Total	850,615	5,228
Average	70,885	436

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:

We always look into power saving equipment when planning projects or focus on energy credits when possible.

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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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?

It's been awhile since we have done Energy Study at the WWTP. When we plan projects we look for energy saving equipment and install VFD's if possible. We also use our SCADA system to write programs to reduce power usage. In the near future we are looking into using methane gas to produce electricity.

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	426,360	295.06	1,445	773.95	551	8,874
February	477,520	280.64	1,702	738.36	647	8,808
March	400,280	295.90	1,353	815.80	491	7,171
April	404,000	307.82	1,312	771.45	524	5,744
May	481,040	386.26	1,245	814.00	591	1,241
June	490,920	352.20	1,394	781.53	628	798
July	504,200	394.87	1,277	783.25	644	768
August	490,600	181.29	2,706	390.38	1,257	673
September	480,960	151.53	3,174	349.47	1,376	539
October	428,760	162.20	2,643	348.63	1,230	3,537
November	461,040	153.41	3,005	352.95	1,306	6,094
December	417,600	146.38	2,853	325.69	1,282	7,488
Total	5,463,280	3,107.56		7,245.46		51,735
Average	455,273	258.96	2,009	603.79	877	4,311

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

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- 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?

Enhanced methane gas production burn in a generator produce electricity. Installation of energy efficient mixers in BNR system.

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:

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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:

Cleaning and flushing 33% of our sanitary sewer collection system, inspection of these manhole structures annually. Televising sewers, root sawing, and root treatment. Budgeting to line sewers every 2 years totaling \$700,000, including money for Sewer replacement when needed as it relates to street replacement project.

Did you accomplish them?

- Yes
- No

If No, explain:

We fell short of our goals in 2018. The same staff that conducts Sanitary Sewer Maintenance also performs storm water work. With another FEMA even in 2018, high river stages flood mitigation, accelerated street rehab projects and leaf collection. We couldn't perform all of our sanitary Sewer work.

- 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?

Sewer Use Ordinance

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

07/22/2017

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)]

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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
- 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:

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: 60px;" type="text" value="29"/>	% of system/year
Root removal	<input style="width: 60px;" type="text" value="1"/>	% of system/year
Flow monitoring	<input style="width: 60px;" type="text" value=".05"/>	% of system/year
Smoke testing	<input style="width: 60px;" type="text" value="0"/>	% of system/year
Sewer line televising	<input style="width: 60px;" type="text" value="3.67"/>	% of system/year
Manhole inspections	<input style="width: 60px;" type="text" value="29"/>	% of system/year
Lift station O&M	<input style="width: 60px;" type="text" value="110"/>	# per L.S./year
Manhole rehabilitation	<input style="width: 60px;" type="text" value="4.5"/>	% of manholes rehabbed
Mainline rehabilitation	<input style="width: 60px;" type="text" value=".65"/>	% of sewer lines rehabbed

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Private sewer inspections % of system/year
 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:

3. Performance Indicators

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

<input type="text" value="42.59"/>	Total actual amount of precipitation last year in inches
<input type="text" value="33"/>	Annual average precipitation (for your location)
<input type="text" value="205"/>	Miles of sanitary sewer
<input type="text" value="26"/>	Number of lift stations
<input type="text" value="0"/>	Number of lift station failures
<input type="text" value="0"/>	Number of sewer pipe failures
<input type="text" value="15"/>	Number of basement backup occurrences
<input type="text" value="73"/>	Number of complaints
<input type="text" value="9.9"/>	Average daily flow in MGD (if available)
<input type="text" value="11.27"/>	Peak monthly flow in MGD (if available)
<input type="text" value="27.02"/>	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="0.00"/>	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="0.07"/>	Basement backups (number/sewer mile)
<input type="text" value="0.36"/>	Complaints (number/sewer mile)
<input type="text" value="1.1"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="2.7"/>	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:

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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:

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

Conducted some flow monitoring required contracted community to conduct flow monitoring/Shelby.

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

Line and replace sewer mains where ground water is an issue continue to rehab manholes. Conduct flow monitoring to ID locations of I.I. we went through and upgraded flow monitoring equipment to collect better data.

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

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Grading Summary

WPDES No: 0029581

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	D	1	5	5
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			32	113
GRADE POINT AVERAGE (GPA) = 3.53				

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 La Crosse

Date of Resolution or
Action Taken:

Resolution Number:

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 = A

Effluent Quality: BOD: Grade = A

Effluent Quality: TSS: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = D

Synagro is contracted to manage and dispose of La Crosse's Biosolids. Synagro's staff did not follow Synagro's Standard Operating Procedures (SOP). Synagro's SOPs are designed to ensure the field is eligible for land application based on the regulations and a review of site-specific approval conditions and that the allowed application rate is not exceeded by determining the number of loads that can be land applied in a field. The determination of the allowed loads takes into consideration the plant available nitrogen content of the biosolids, crop nitrogen needs, other nitrogen inputs/residual nitrogen from previous biosolids application, acres available for application and any site-specific rate limitations. Synagro was forthright with the mistake that had happened, we contacted DNR right away Synagro formalized a response and this was submitted to DNR. Note it was a very wet year and it was a push to dispose of a lot of material in a short window.

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

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(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)

G.P.A. = 3.53