

# Compliance Maintenance Annual Report

Waukesha City

Last Updated: Reporting For:

5/30/2019

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. 702	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	8.1016	x	216	x	8.34	=	14,616
February	9.4385	x	187	x	8.34	=	14,751
March	9.0741	x	209	x	8.34	=	15,785
April	9.7567	x	214	x	8.34	=	17,384
May	12.5818	x	236	x	8.34	=	24,794
June	11.4577	x	299	x	8.34	=	28,578
July	9.7311	x	160	x	8.34	=	12,954
August	9.7365	x	193	x	8.34	=	15,709
September	12.4709	x	158	x	8.34	=	16,381
October	12.4281	x	179	x	8.34	=	18,580
November	10.5510	x	249	x	8.34	=	21,952
December	9.7803	x	200	x	8.34	=	16,321

### 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	18.5	x	90	=	16.65
		x	100	=	18.5
Design (C)BOD, lbs/day	29653	x	90	=	26687.7
		x	100	=	29653

#### 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	1	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	1	0
Points		0	0	3	0
<b>Total Number of Points</b>					<b>3</b>

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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)

2018-11-15

☐ 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:

Notice of violations were issued for two industrial users with violations. Letters were sent regarding a private pump station caused a blockage of their own lateral, and oil was noticed in one of our lift stations from a poorly maintained grease trap at a commercial facility.

## 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 4,036,063 gallons

☐ No

Holding Tanks

☒ Yes 7,719,637 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.

Plant performance was not affected

## 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></div> <p>6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?</p> <ul style="list-style-type: none"><li>● Yes</li><li>○ No</li></ul> <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>All hauled waste, which includes leachate, is subject to our Pretreatment Program for permitting, site inspections, testing and monitoring. We have a categorical metal finisher, landfill leachate, and a non-categorical printer permitted as Industrial Users that are hauled.</div>	
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Total Points Generated	3
Score (100 - Total Points Generated)	97
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	10	10	0	1	0	0
February	10	10	0	1	0	0
March	10	10	0	1	0	0
April	10	10	0	1	0	0
May	10	10	0	1	0	0
June	10	10	0	1	0	0
July	8.5	8.5	0	1	0	0
August	8.5	8.5	0	1	0	0
September	8.2	8.2	0	1	0	0
October	10	10	2	1	0	0
November	10	10	0	1	0	0
December	10	10	0	1	0	0

\* Equals limit if limit is  $\leq 10$

Months of discharge/yr	12		
Points per each exceedance with 12 months of discharge		7	3
Exceedances		0	0
Points		0	0
<b>Total number of points</b>			<b>0</b>

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)

2018-11-15

☐ No

If No, please explain:

### 3. Treatment Problems

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

None

### 4. Other Monitoring and Limits

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

☐ Yes

☒ No

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<p>If Yes, please explain:</p> <div></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></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></div>	
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<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

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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	10	10	1	1	0	0
February	10	10	0	1	0	0
March	10	10	1	1	0	0
April	10	10	0	1	0	0
May	10	10	0	1	0	0
June	10	10	0	1	0	0
July	10	10	0	1	0	0
August	10	10	0	1	0	0
September	10	10	2	1	0	0
October	10	10	1	1	0	0
November	10	10	1	1	0	0
December	10	10	1	1	0	0

\* Equals limit if limit is <= 10

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

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?

<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

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## Effluent Quality and Plant Performance (Ammonia - NH3)

### 1. Effluent Ammonia Results

1.1 Verify the following monthly and weekly average effluent values, exceedances and points for ammonia

Outfall No. 001	Monthly Average NH3 Limit (mg/L)	Weekly Average NH3 Limit (mg/L)	Effluent Monthly Average NH3 (mg/L)	Monthly Permit Limit Exceed ance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceed ance
January	5		.01548387	1 0					
February	5.2		.02428571	4 0					
March	6		.01161290	3 0					
April	5.6		0	0					
May	4.9		.01451612	9 0					
June	3.1		.00733333	3 0					
July	2		.00225806	5 0					
August	2.1		.34129032	3 0					
September	2.9		.15566666	7 0					
October	4.5		.29258064	5 0					
November	5.4		.05266666	7 0					
December	5.1		.08516129	0					
Points per each exceedance of Monthly average:									10
Exceedances, Monthly:									0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):									2.5
Exceedances, Weekly:									0
Points:									0
<b>Total Number of Points</b>									<b>0</b>

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

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

<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

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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	.7	0.094	1	0
February	.7	0.062	1	0
March	.7	0.057	1	0
April	.7	0.063	1	0
May	.7	0.071	1	0
June	.7	0.083	1	0
July	.7	0.071	1	0
August	.7	0.113	1	0
September	.7	0.237	1	0
October	.7	0.163	1	0
November	.7	0.134	1	0
December	.7	0.106	1	0
Months of Discharge/yr			12	
<b>Points per each exceedance with 12 months of discharge:</b>				<b>10</b>
Exceedances				0
<b>Total Number of Points</b>				<b>0</b>

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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<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>



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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?

3056 acres

##### 2.1.2 How many acres did you use?

340 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

0

### 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. 002 - Anaerobic Belt Pressed 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	<5.1		5.2		4.4		7.4		6.1		5.8			0	0
Cadmium		39	85	.98		.9		1.2		1.4		1.5		<.49			0	0
Copper		1500	4300	624		551		571		668		708		751			0	0
Lead		300	840	25.6		22.5		22.9		28.6		29.1		24.1			0	0
Mercury		17	57	.53		.43		.58		1.3		.52		.61			0	0
Molybdenum	60		75	17		17.8		20.8		19.4		16.2		15.4		0		0
Nickel	336		420	54		42.7		37.3		45.7		41.8		39.8		0		0
Selenium	80		100	<5.3		8.7		<4.5		4.6		5.6		9.4		0		0
Zinc		2800	7500	981		834		819		1040		1260		1220			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)

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- ☐ 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?

0

## 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:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2018 - 03/31/2018
Density:	13,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2018 - 02/28/2018
Density:	13,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

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Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	03/01/2018 - 04/30/2018
Density:	46,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	03/01/2018 - 04/30/2018
Density:	130,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	04/01/2018 - 06/30/2018
Density:	12,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	04/01/2018 - 06/30/2018
Density:	400,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

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Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2018 - 06/30/2018
Density:	12,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2018 - 06/30/2018
Density:	400,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	05/01/2018 - 06/30/2018
Density:	130,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 09/30/2018
Density:	6,600
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

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Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 08/31/2018
Density:	6,600
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 08/31/2018
Density:	39,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2018 - 09/30/2018
Density:	39,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	09/01/2018 - 10/31/2018
Density:	19,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

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Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	10/01/2018 - 12/31/2018
Density:	30,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	10/01/2018 - 12/31/2018
Density:	1,600,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	11/01/2018 - 12/31/2018
Density:	1,600,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Storage pile samples. Lab Certification Number: 721026460

Outfall Number:	<b>002</b>
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	11/01/2018 - 12/31/2018
Density:	30,000
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Centrifuge samples. Lab Certification Number: 721026460

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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:	01/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	58

Outfall Number:	002
Method Date:	02/28/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	002
Method Date:	01/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	58

Outfall Number:	002
Method Date:	03/31/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	
Results (if applicable):	

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Outfall Number:	<b>002</b>
Method Date:	04/09/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	54

Outfall Number:	<b>002</b>
Method Date:	04/04/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	60

Outfall Number:	<b>002</b>
Method Date:	03/28/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	60

Outfall Number:	<b>002</b>
Method Date:	03/26/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	62

Outfall Number:	<b>002</b>
Method Date:	03/14/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	26



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Outfall Number:	<b>002</b>
Method Date:	03/13/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	25

Outfall Number:	<b>002</b>
Method Date:	04/30/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	04/11/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	70

Outfall Number:	<b>002</b>
Method Date:	04/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	51

Outfall Number:	<b>002</b>
Method Date:	04/18/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	49

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Outfall Number:	<b>002</b>
Method Date:	04/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	55

Outfall Number:	<b>002</b>
Method Date:	04/25/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	51

Outfall Number:	<b>002</b>
Method Date:	06/27/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	44

Outfall Number:	<b>002</b>
Method Date:	06/20/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	06/18/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	17

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Outfall Number:	<b>002</b>
Method Date:	06/06/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	40

Outfall Number:	<b>002</b>
Method Date:	06/04/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	39

Outfall Number:	<b>002</b>
Method Date:	05/30/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	43

Outfall Number:	<b>002</b>
Method Date:	05/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	58

Outfall Number:	<b>002</b>
Method Date:	05/21/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	54

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Outfall Number:	<b>002</b>
Method Date:	05/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	47

Outfall Number:	<b>002</b>
Method Date:	05/14/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	48

Outfall Number:	<b>002</b>
Method Date:	05/07/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	05/02/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	41

Outfall Number:	<b>002</b>
Method Date:	04/30/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	41

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Outfall Number:	<b>002</b>
Method Date:	04/25/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	51

Outfall Number:	<b>002</b>
Method Date:	04/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	55

Outfall Number:	<b>002</b>
Method Date:	04/18/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	49

Outfall Number:	<b>002</b>
Method Date:	04/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	51

Outfall Number:	<b>002</b>
Method Date:	04/11/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	70

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Outfall Number:	<b>002</b>
Method Date:	04/09/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	54

Outfall Number:	<b>002</b>
Method Date:	04/04/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	60

Outfall Number:	<b>002</b>
Method Date:	06/30/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	06/18/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	17

Outfall Number:	<b>002</b>
Method Date:	06/06/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	40

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Outfall Number:	<b>002</b>
Method Date:	06/04/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	39

Outfall Number:	<b>002</b>
Method Date:	05/30/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	43

Outfall Number:	<b>002</b>
Method Date:	05/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	58

Outfall Number:	<b>002</b>
Method Date:	05/21/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	54

Outfall Number:	<b>002</b>
Method Date:	06/20/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

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Outfall Number:	<b>002</b>
Method Date:	05/14/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	48

Outfall Number:	<b>002</b>
Method Date:	05/07/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	05/02/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	41

Outfall Number:	<b>002</b>
Method Date:	06/30/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	06/27/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	44



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Outfall Number:	<b>002</b>
Method Date:	05/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	47

Outfall Number:	<b>002</b>
Method Date:	07/25/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	46

Outfall Number:	<b>002</b>
Method Date:	07/02/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	37

Outfall Number:	<b>002</b>
Method Date:	07/09/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	26

Outfall Number:	<b>002</b>
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):	51

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Outfall Number:	<b>002</b>
Method Date:	07/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	07/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	44

Outfall Number:	<b>002</b>
Method Date:	07/25/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	46

Outfall Number:	<b>002</b>
Method Date:	07/16/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
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):	51

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Outfall Number:	<b>002</b>
Method Date:	07/09/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	26

Outfall Number:	<b>002</b>
Method Date:	07/02/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	37

Outfall Number:	<b>002</b>
Method Date:	08/31/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	07/23/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	44

Outfall Number:	<b>002</b>
Method Date:	09/30/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

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Outfall Number:	<b>002</b>
Method Date:	10/31/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	10/22/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	10/15/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	17

Outfall Number:	<b>002</b>
Method Date:	10/29/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	10/31/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	36

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Outfall Number:	<b>002</b>
Method Date:	11/07/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	37

Outfall Number:	<b>002</b>
Method Date:	11/19/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	36

Outfall Number:	<b>002</b>
Method Date:	12/10/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	23

Outfall Number:	<b>002</b>
Method Date:	12/12/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	12/17/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	30

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Outfall Number:	<b>002</b>
Method Date:	12/19/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	30

Outfall Number:	<b>002</b>
Method Date:	12/26/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	37

Outfall Number:	<b>002</b>
Method Date:	10/24/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	38

Outfall Number:	<b>002</b>
Method Date:	12/31/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	12/10/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	23

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Outfall Number:	<b>002</b>
Method Date:	12/12/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	35

Outfall Number:	<b>002</b>
Method Date:	12/31/2018
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	<b>002</b>
Method Date:	12/26/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	37

Outfall Number:	<b>002</b>
Method Date:	12/17/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	30

Outfall Number:	<b>002</b>
Method Date:	12/19/2018
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	No
Land Applied:	Yes
Limit (if applicable):	>= 38
Results (if applicable):	30

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Outfall Number:	<b>002</b>		<b>0</b>
Method Date:	11/19/2018		
Option Used To Satisfy Requirement:	Volatile Solids Reduction		
Requirement Met:	No		
Land Applied:	Yes		
Limit (if applicable):	>= 38		
Results (if applicable):	36		
Outfall Number:	<b>002</b>		<b>0</b>
Method Date:	11/07/2018		
Option Used To Satisfy Requirement:	Volatile Solids Reduction		
Requirement Met:	No		
Land Applied:	Yes		
Limit (if applicable):	>= 38		
Results (if applicable):	37		
<p>5.2 Was the limit exceeded or the process criteria not met at the time of land application?</p> <p><input type="radio"/> Yes (40 Points)</p> <p><input checked="" type="radio"/> No</p> <p>If yes, what action was taken?</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			
<p>6. Biosolids Storage</p> <p>6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?</p> <p><input checked="" type="radio"/> &gt;= 180 days (0 Points)</p> <p><input type="radio"/> 150 - 179 days (10 Points)</p> <p><input type="radio"/> 120 - 149 days (20 Points)</p> <p><input type="radio"/> 90 - 119 days (30 Points)</p> <p><input type="radio"/> &lt; 90 days (40 Points)</p> <p><input type="radio"/> N/A (0 Points)</p> <p>6.2 If you checked N/A above, explain why.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			<b>0</b>
<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; min-height: 30px;"> <p>A wet fall in 2018 made the window of application difficult before frost set in as farmers struggled to get their crops off.</p> </div>			

<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>



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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"><li>● Yes</li><li>○ No</li></ul> <p>If No, please explain:</p> <div></div> <p>Could use more help/staff for:</p> <div></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"><li>● Yes</li><li>○ No</li></ul> <p>If No, please explain:</p> <div></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"><li>● Yes (Continue with question 2) <input type="checkbox"/><input type="checkbox"/></li><li>○ No (40 points)<input type="checkbox"/><input type="checkbox"/></li></ul> <p>If No, please explain, then go to question 3:</p> <div></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"><li>● Yes</li><li>○ No (10 points)</li></ul> <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"><li>● Yes<ul style="list-style-type: none"><li>○ Paper file system</li><li>○ Computer system</li><li>● Both paper and computer system</li></ul></li><li>○ No (10 points)</li></ul>	0
<p>3. O&amp;M Manual</p> <p>3.1 Does your plant have a detailed O&amp;M and Manufacturer Equipment Manuals that can be used as a reference when needed?</p> <ul style="list-style-type: none"><li>● Yes</li><li>○ No</li></ul>	
<p>4. Overall Maintenance /Repairs</p> <p>4.1 Rate the overall maintenance of your wastewater plant.</p> <ul style="list-style-type: none"><li>● Excellent</li><li>○ Very good</li><li>○ Good</li><li>○ Fair</li><li>○ Poor</li></ul> <p>Describe your rating:</p>	

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The recent plant upgrade replaced most major equipment. Most equipment not replaced was rebuilt in house such as the Ras/Was, along with primary influent and primary effluent pumps.	
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<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

# Compliance Maintenance Annual Report

Waukesha City

Last Updated: Reporting For:  
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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:

JEFF T HARENDA

Certification No:

31618

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				
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.	
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<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

# Compliance Maintenance Annual Report

Waukesha City

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## Financial Management

### 1. Provider of Financial Information

Name:

Rich Abbott

Telephone:

262-524-3556

(XXX) XXX-XXXX

E-Mail Address  
(optional):

rabbott@waukesha-wi.gov

### 2. Treatment Works Operating Revenues

2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?

● Yes (0 points) ☐

○ No (40 points)

If No, please explain:

2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?  
Year:

2018

● 0-2 years ago (0 points) ☐

○ 3 or more years ago (20 points) ☐

○ N/A (private facility)

2.3 Did you have a special account (e.g., CWP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?

● Yes (0 points)

○ No (40 points)

0

REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]

### 3. Equipment Replacement Funds

3.1 When was the Equipment Replacement Fund last reviewed and/or revised?

Year:

2018

● 1-2 years ago (0 points) ☐

○ 3 or more years ago (20 points) ☐

○ N/A

If N/A, please explain:

### 3.2 Equipment Replacement Fund Activity

#### 3.2.1 Ending Balance Reported on Last Year's CMAR

\$ 3,555,044.95

3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)

\$ 0.00

3.2.3 Adjusted January 1st Beginning Balance

\$ 3,555,044.95

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)

+

\$ 50,000.00

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

- \$ 480,477.68

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

\$ 3,124,567.27

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.

\$17,458.58 Plant storm water station upgrade  
\$10,209.73 400 Bldg air compressor replacement  
\$452,809.37 Final clarifier rehabilitation

0

3.3 What amount should be in your Replacement Fund? \$ 1,558,369.00

Please note: If you had a CFWP 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	6-10 year facility plan upgrades, to include phosphorus treatment, primary inf/eff pump replacement, continued electrical upgrades, door, paving, and aeration piping replacements.	15,800,000	2020
2	Replace scum pump for final clarifiers in bldg. 240	16,500	2019
3	complete storm water pump station upgrade at WWTP	40,000	2019
4	Eliminate two lift stations and their force mains with a gravity sewer line. One of the stations (Greenmeadow) can cause a bottle neck during peak flows.	15,000,000	2018
5	Eliminate three lift stations on the south side of city consolidating into another by gravity.	14,000,000	2021
6	Eliminate and consolidate three lift stations on west side of city.	4,000,000	2020
7	Construct a Return Flow Pump Station and pipeline for switch to a Lake Michigan water supply.	120,000,000	2021

## 5. Financial Management General Comments

Replacement of primary influent and effluent pumps were incorporated into 6-10 year upgrade from stand alone projects.

## ENERGY EFFICIENCY AND USE

## 6. Collection System

### 6.1 Energy Usage

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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:

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	103,366	18
February	96,744	18
March	89,538	18
April	91,181	19
May	99,516	38
June	89,350	31
July	83,484	50
August	71,296	35
September	92,915	56
October	95,180	43
November	94,325	90
December	79,686	61
Total	<b>1,086,581</b>	<b>477</b>
Average	<b>90,548</b>	<b>40</b>

6.1.2 Comments:

Natural gas use is only for 3 onsite emergency back-up generators which are exercised weekly. We have 4 small grinder pump stations that are not separately metered, but taking the average of 3 of the same type that are metered we would add 3,848 kWh to the 1,086,581 kWh total for 1,090,429 total kWh for all lift stations.

## 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:

Three pump stations have onsite natural gas generators for emergency power.

6.2.2 Comments:

Continued I&I reduction will reduce electricity consumption.

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

☐ No

☒ Yes

Year:

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By Whom:

Aecom

Describe and Comment:

A feasibility study was done to look at eliminating lift stations by replacing with gravity. Energy consumption was a factor in the study for cost effective solutions

## 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?

As stations are upgraded newer efficient pumps are being installed along with VFDs. We still plan on eliminating more stations with gravity lines.

## 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	833,106	251.15	3,317	453.10	1,839	45,415
February	765,121	264.28	2,895	413.03	1,852	39,621
March	729,928	281.30	2,595	489.34	1,492	29,631
April	789,880	292.70	2,699	521.52	1,515	29,637
May	809,742	390.04	2,076	768.61	1,054	8,268
June	820,861	343.73	2,388	857.34	957	2,063
July	797,819	301.66	2,645	401.57	1,987	1,230
August	728,361	301.83	2,413	486.98	1,496	750
September	870,147	374.13	2,326	491.43	1,771	1,808
October	641,695	385.27	1,666	575.98	1,114	4,820
November	800,784	316.53	2,530	658.56	1,216	17,439
December	767,954	303.19	2,533	505.95	1,518	34,235
Total	9,355,398	3,805.81		6,623.41		214,917
Average	779,617	317.15	2,507	551.95	1,484	17,910

7.1.2 Comments:

We have two natural gas accounts for the plant. One is for six emergency back-up generators which totaled 4,730 therms of the 214,917 total. The other account has two emergency back-up generators on it in addition to building and process heat. The generator portion of that account would estimate to be 1,576 therms of the total, meaning 213,341 therms were used for building and process heat. The back-up generators are exercised weekly, most process heat is from bio-gas.

### 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



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- ☐ Biological Phosphorus Removal
- ☐ Coarse Bubble Diffusers
- ☒ Dissolved O2 Monitoring and Aeration Control
- ☒ Effluent Pumping
- ☒ Fine Bubble Diffusers
- ☒ Influent Pumping
- ☒ Mechanical Sludge Processing
- ☐ Nitrification
- ☒ SCADA System
- ☒ UV Disinfection
- ☒ Variable Speed Drives
- ☒ Other:

Eight 300kW natural gas powered back-up generators.

## 7.2.2 Comments:

Our primary clarifier effluent is pumped, but not our final effluent.

## 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?

Replacing our primary influent and effluent pumps with new higher efficient pumps.

## 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:

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<div><div></div><div><input checked="" type="checkbox"/> Part of the facility</div><div>Year: <div>2018</div></div><div>By Whom: <div>Strand Associates</div></div><div>Describe and Comment:<div>A beneficial bio-gas reuse study was completed to re-evaluate Facility Plan recommendation.</div></div></div>	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

# Compliance Maintenance Annual Report

Waukesha City

Last Updated: Reporting For:

5/30/2019

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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:

Maintain assets through rehabilitation and replacement program - rehabilitated/replaced:  
17,346 LF mainline; 3,375 LF laterals  
Clean 30% of sewers  
Televise 10% of sewers  
Inspect all pump stations weekly  
Rehabilitated 234 manholes

Did you accomplish them?

☐ Yes

☒ No

If No, explain:

Accomplished all items except televising, work moved to 2019 due to scheduling.

☒ 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?

Chapter 29

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 03/20/2018

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:

Sanitary Infrastructure Field Verification & Acceptance Request forms must be submitted and approved prior to acceptance of sanitary infrastructure.

0

☒ 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	82	% of system/year
Root removal	0	% of system/year
Flow monitoring	0	% of system/year
Smoke testing	0	% of system/year
Sewer line televising	7.7	% of system/year
Manhole inspections	1	% of system/year
Lift station O&M	50	# per L.S./year
Manhole rehabilitation	4	% of manholes rehabbed
Mainline rehabilitation		

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	<input type="text" value="1"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="1"/>	% of system/year
Private sewer I/I removal	<input type="text" value="1"/>	% of private services
River or water crossings	<input type="text" value="100"/>	% of pipe crossings evaluated or maintained

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

We had 109 after hours call-ins for lift station alarms in 2018. 39 of those were for a communication problem, 19 for power outages due to a storm or other event, 52 were for a mechanical or control issue which was able to be resolved in the field. None resulted in a failure. Lift station O&M involves weekly inspection to test equipment and pump down wet wells. Wet wells are cleaned once per year minimum. We had 43 calls of complaints that were the result of the owners lateral, and no back-ups.

## 3. Performance Indicators

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

<input type="text" value="40.97"/>	Total actual amount of precipitation last year in inches
<input type="text" value="34.62"/>	Annual average precipitation (for your location)
<input type="text" value="271"/>	Miles of sanitary sewer
<input type="text" value="40"/>	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="0"/>	Number of basement backup occurrences
<input type="text" value="0"/>	Number of complaints
<input type="text" value="10.223"/>	Average daily flow in MGD (if available)
<input type="text" value="21.143"/>	Peak monthly flow in MGD (if available)
<input type="text" value="27.735"/>	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="0.00"/>	Basement backups (number/sewer mile)
<input type="text" value="0.00"/>	Complaints (number/sewer mile)
<input type="text" value="2.1"/>	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)
0	9/13/2018 11:45:00 AM - 9/13/2018 11:47:00 AM	Sewer vacuum truck at 600 Sentry Drive, Waukesha WI, 53186	Equipment Failure	0.0007 - 0.0007

\*\* If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

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**What actions were taken, or are underway, to reduce or eliminate SSO or TFO occurrences in the future?**

**A vehicle inspection form was developed for this piece of equipment along with refresher training on its use.**

**5. Infiltration / Inflow (I/I)**

**5.1 Was infiltration/inflow (I/I) significant in your community last year?**

☐ Yes

☒ No

If Yes, please describe:

**5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?**

☐ Yes

☒ No

If Yes, please describe:

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

For 2018, the average monthly difference in Clean Water Plant (CWP) influent versus Water Utility pumping was 4.739 MGD. This is higher than the historical (2005-2010) monthly difference of 3.390 MGD by 1.349 MGD. However, the precipitation for the year was 7.73 inches below the historical annual total. Since the end of 2018, we have discovered several manholes in low-lying areas with significant levels of infiltration. This may explain the results seen in 2018.

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

Continued lining or re-laying of mainline sewer, lining or re-laying of laterals in the ROW, grouting of individual leaks in sewers, chimney seals on rehabilitated manholes, lining of existing manholes. One million dollars budgeted for lining of concrete sewers, and lateral televising for suspected clear water discharges.

<b>Total Points Generated</b>	0
<b>Score (100 - Total Points Generated)</b>	100
<b>Section Grade</b>	<b>A</b>

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## Grading Summary

WPDES No: 0029971

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
Ammonia	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
<b>TOTALS</b>			<b>37</b>	<b>148</b>
<b>GRADE POINT AVERAGE (GPA) = 4.00</b>				

### 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 Waukesha

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: Ammonia: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = A

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)

Due to a spill from the sewer vacuum truck on plant grounds, one Treatment Facility Overflow (TFO) was noted. An equipment pre-use inspection check list was developed as the incident was due to a mechanical failure of an air valve. Operator refresher training was also done to assure against a repeat incident when using this piece of equipment regardless of the location.

### 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. = 4.00



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A Land Application Management Plan will be developed for use during the 2020 application season. That plan will then be incorporated into the contract with our bio-solids hauler to ensure of a consistent and efficient standard procedure for all aspects of the program.