

# Compliance Maintenance Annual Report

Evansville Wastewater Treatment Facility

Last Updated: Reporting For:  
6/15/2017 2016

## 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.

Outfall 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	0.3873	x	235	x	8.34	=	759
February	0.3826	x	263	x	8.34	=	838
March	0.3985	x	296	x	8.34	=	984
April	0.4091	x	243	x	8.34	=	827
May	0.3895	x	228	x	8.34	=	739
June	0.3814	x	196	x	8.34	=	624
July	0.3846	x	110	x	8.34	=	353
August	0.4094	x	200	x	8.34	=	683
September	0.4087	x	188	x	8.34	=	639
October	0.4281	x	215	x	8.34	=	768
November	0.3971	x	304	x	8.34	=	1,007
December	0.3991	x	393	x	8.34	=	1,306

### 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	1.4	x	90	=	1.26
		x	100	=	1.4
Design (C)BOD, lbs/day	1450	x	90	=	1305
		x	100	=	1450

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	1	0
Points per each		2	1	3	2
Exceedances		0	0	1	0
Points		0	0	3	0
Total Number of Points					3

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## 3. Flow Meter

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

No

If No, please explain:

## 4. Sewer Use Ordinance

4.1 Did your community have a sewer use ordinance that limited or prohibited the discharge of excessive conventional pollutants ((C)BOD, SS, or pH) or toxic substances to the sewer from industries, commercial users, hauled waste, or residences?

Yes

No

If No, please explain:

4.2 Was it necessary to enforce the ordinance?

Yes

No

If Yes, please explain:

## 5. Septage Receiving

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

Septic Tanks

Holding Tanks

Grease Traps

Yes

Yes

Yes

No

No

No

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

Septic Tanks

Yes

gallons

No

Holding Tanks

Yes

gallons

No

Grease Traps

Yes

gallons

No

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

## 6. Pretreatment

6.1 Did your facility experience operational problems, permit violations, biosolids quality concerns, or hazardous situations in the sewer system or treatment plant that were attributable to commercial or industrial discharges in the last year?

Yes

No

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

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

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<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <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 style="border: 1px solid black; height: 20px; width: 100%;"></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	50	45	7	1	0	0
February	50	45	8	1	0	0
March	50	45	5	1	0	0
April	50	45	4	1	0	0
May	50	45	4	1	0	0
June	50	45	3	1	0	0
July	50	45	1	1	0	0
August	50	45	3	1	0	0
September	50	45	0	1	0	0
October	50	45	1	1	0	0
November	50	45	2	1	0	0
December	50	45	6	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)

No

If No, please explain:

Effluent flow is calculated from measuring elevation and referring to the calibration chart.

### 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 style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If Yes, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p> <p>Please explain unless not applicable:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

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

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## Groundwater Quality

<p>1. Groundwater Quality Standards</p> <p>1.1 At any time in the past year were there Preventative Action Limit (PAL) or Alternative Concentration Limit (ACL) exceedances of public health and welfare parameters in any groundwater monitoring wells downgradient of the discharge location?</p> <ul style="list-style-type: none"> <li>● Yes</li> <li>○ No</li> </ul> <p>If Yes, please list the exceedances in each downgradient well:</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">The Chloride was over the PALs in the downgradient monitoring wells.</div> <p>1.2 At any time in the past year were there Enforcement Standard (ES) or ES Alternative Concentration Limit (ACL) exceedances in any groundwater monitoring well downgradient of the discharge location?</p> <ul style="list-style-type: none"> <li>● Yes (20 points)</li> <li>○ No (If no, proceed to question 1.3)</li> <li>○ N/A - Based on a Department confirmation that the hydrogeologic situation is, in effect, a diffuse surface water discharge system.</li> </ul> <p>If Yes, please list the exceedances in each well:</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">The Chloride was over the ES on 6.7.16 in 113A (280) and 112 (270) and 9.6.16. in 113A (270).</div> <p>1.3 At any time in the past year were there Enforcement Standard (ES) or ES Alternative Concentration Limit (ACL) exceedances at any point of standards application monitoring well? Point of standards application monitoring wells are those wells used to determine if an ES or ACL has been exceeded at any one or more of the following: 1) Any point of groundwater use; 2) Any point beyond the property boundary on which the facility is located; 3) Any point beyond the design management zone.</p> <ul style="list-style-type: none"> <li>● Yes (10 points)</li> <li>○ No</li> <li>○ N/A - Based on a Department confirmation that the hydrogeologic situation is, in effect, a diffuse surface water discharge system rather than a discharge system potentially impacting the groundwater beyond a groundwater compliance boundary. In this case the facility may have received an NR 140.28 exemption.</li> </ul> <p>If Yes, please list the exceedances in each well:</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">On 6.7.16 the chloride was over the ES in well 112.</div>	30
<p>2. Groundwater Evaluation Report</p> <p>2.1 Has a comprehensive Groundwater Compliance Evaluation Report been done by either your consultant or the Department ?</p> <ul style="list-style-type: none"> <li>○ Yes                      Date: <div style="border: 1px solid black; width: 100px; height: 15px; display: inline-block;"></div></li> <li>● No</li> </ul> <p>If yes, what were the findings:</p> <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>	

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



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## Outfall No. 004 - 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			<3.2											0	0
Cadmium		39	85			.85											0	0
Copper		1500	4300			710											0	0
Lead		300	840			18											0	0
Mercury		17	57			.61											0	0
Molybdenum	60		75			4.8										0		0
Nickel	336		420			11										0		0
Selenium	80		100			<4.6										0		0
Zinc		2800	7500			490											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:	004
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2016 - 12/31/2016
Density:	7,900
Sample Concentration Amount:	CFU/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	

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<p>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?  <input type="radio"/> Yes (40 Points)  <input checked="" type="radio"/> No                  If yes, what action was taken?  <input style="width: 100%; height: 20px;" type="text"/></p>	0														
<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Outfall Number:</td> <td style="text-align: center;">004</td> </tr> <tr> <td>Method Date:</td> <td style="text-align: center;">12/31/2016</td> </tr> <tr> <td>Option Used To Satisfy Requirement:</td> <td style="text-align: center;">Incorporation when land apply</td> </tr> <tr> <td>Requirement Met:</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>Land Applied:</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>Limit (if applicable):</td> <td></td> </tr> <tr> <td>Results (if applicable):</td> <td></td> </tr> </table> <p>5.2 Was the limit exceeded or the process criteria not met at the time of land application?  <input type="radio"/> Yes (40 Points)  <input checked="" type="radio"/> No                  If yes, what action was taken?  <input style="width: 100%; height: 20px;" type="text"/></p>	Outfall Number:	004	Method Date:	12/31/2016	Option Used To Satisfy Requirement:	Incorporation when land apply	Requirement Met:	Yes	Land Applied:	Yes	Limit (if applicable):		Results (if applicable):		0
Outfall Number:	004														
Method Date:	12/31/2016														
Option Used To Satisfy Requirement:	Incorporation when land apply														
Requirement Met:	Yes														
Land Applied:	Yes														
Limit (if applicable):															
Results (if applicable):															
<p>6. Biosolids Storage                  6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?  <input checked="" type="radio"/> &gt;= 180 days (0 Points)  <input type="radio"/> 150 - 179 days (10 Points)  <input type="radio"/> 120 - 149 days (20 Points)  <input type="radio"/> 90 - 119 days (30 Points)  <input type="radio"/> &lt; 90 days (40 Points)  <input type="radio"/> N/A (0 Points)                  6.2 If you checked N/A above, explain why.  <input style="width: 100%; height: 20px;" type="text"/></p>	0														
<p>7. Issues                  7.1 Describe any outstanding biosolids issues with treatment, use or overall management:  <input style="width: 100%; height: 20px;" type="text" value="None"/></p>															

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

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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><input checked="" type="radio"/> Yes</li><li><input type="radio"/> No</li></ul> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <ul style="list-style-type: none"><li><input checked="" type="radio"/> Yes</li><li><input type="radio"/> No</li></ul> <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"><li><input checked="" type="radio"/> Yes (Continue with question 2)</li><li><input type="radio"/> No (40 points)</li></ul> <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"><li><input checked="" type="radio"/> Yes</li><li><input type="radio"/> 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><input checked="" type="radio"/> Yes<ul style="list-style-type: none"><li><input type="radio"/> Paper file system</li><li><input type="radio"/> Computer system</li><li><input checked="" type="radio"/> Both paper and computer system</li></ul></li><li><input type="radio"/> 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><input checked="" type="radio"/> Yes</li><li><input type="radio"/> 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><input type="radio"/> Excellent</li><li><input type="radio"/> Very good</li><li><input checked="" type="radio"/> Good</li><li><input type="radio"/> Fair</li><li><input type="radio"/> Poor</li></ul> <p>Describe your rating:</p>	

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All the bearings are greased and the oil is changed when its due. A walk around is performed at least once a day to check operation.	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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## Operator Certification and Education

<p>1. Operator-In-Charge</p> <p>1.1 Did you have a designated operator-in-charge during the report year?</p> <p>● Yes (0 points)</p> <p>○ No (20 points)</p> <p>Name: <input style="width: 300px;" type="text" value="RAYMOND E NIPPLE"/></p> <p>Certification No: <input style="width: 150px;" type="text" value="32303"/></p>	0																																																																																								
<p>2. Certification Requirements</p> <p>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?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Sub Class</th> <th rowspan="2">SubClass Description</th> <th colspan="2">WWTP</th> <th colspan="2">OIC</th> </tr> <tr> <th>Basic</th> <th>OIT</th> <th>Basic</th> <th>Advanced</th> </tr> </thead> <tbody> <tr><td>A1</td><td>Suspended Growth Processes</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>A2</td><td>Attached Growth Processes</td><td></td><td></td><td></td><td></td></tr> <tr><td>A3</td><td>Recirculating Media Filters</td><td></td><td></td><td></td><td></td></tr> <tr><td>A4</td><td>Ponds, Lagoons and Natural</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>A5</td><td>Anaerobic Treatment Of Liquid</td><td></td><td></td><td></td><td></td></tr> <tr><td>B</td><td>Solids Separation</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>C</td><td>Biological Solids/Sludges</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>P</td><td>Total Phosphorus</td><td></td><td></td><td></td><td></td></tr> <tr><td>N</td><td>Total Nitrogen</td><td></td><td></td><td></td><td></td></tr> <tr><td>D</td><td>Disinfection</td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td>Laboratory</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>U</td><td>Unique Treatment Systems</td><td></td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>Sanitary Sewage Collection</td><td>X</td><td>NA</td><td>NA</td><td>NA</td></tr> </tbody> </table> <p>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 2016; subclass SS is basic level only.)</p> <p>● Yes (0 points)</p> <p>○ No (20 points)</p>	Sub Class	SubClass Description	WWTP		OIC		Basic	OIT	Basic	Advanced	A1	Suspended Growth Processes	X		X		A2	Attached Growth Processes					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					N	Total Nitrogen					D	Disinfection					L	Laboratory			X		U	Unique Treatment Systems					SS	Sanitary Sewage Collection	X	NA	NA	NA	0
Sub Class			SubClass Description	WWTP		OIC																																																																																			
	Basic	OIT		Basic	Advanced																																																																																				
A1	Suspended Growth Processes	X		X																																																																																					
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B	Solids Separation	X		X																																																																																					
C	Biological Solids/Sludges	X		X																																																																																					
P	Total Phosphorus																																																																																								
N	Total Nitrogen																																																																																								
D	Disinfection																																																																																								
L	Laboratory			X																																																																																					
U	Unique Treatment Systems																																																																																								
SS	Sanitary Sewage Collection	X	NA	NA	NA																																																																																				
<p>3. Succession Planning</p> <p>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)?</p> <p><input checked="" type="checkbox"/> One or more additional certified operators on staff</p> <p><input type="checkbox"/> An arrangement with another certified operator</p> <p><input type="checkbox"/> An arrangement with another community with a certified operator</p> <p><input type="checkbox"/> An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year</p> <p><input type="checkbox"/> A consultant to serve as your certified operator</p> <p><input type="checkbox"/> None of the above (20 points)</p> <p>If "None of the above" is selected, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	0																																																																																								
<p>4. Continuing Education Credits</p>																																																																																									

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4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates?

OIT and Basic Certification:

- Averaging 6 or more CECs per year.
- Averaging less than 6 CECs per year.

Advanced Certification:

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

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

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## Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 150px;" type="text" value="Ian Rigg"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="6088822263"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="ian.rigg@ci.evansville.wi.gov"/></p>																	
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&amp;M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> No (40 points)</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?</p> <p>Year: <input style="width: 100px;" type="text" value="2015"/></p> <p><input checked="" type="radio"/> 0-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input type="radio"/> N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CFWP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> No (40 points)</p>	0																
<p><b>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</b></p>																	
<p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised?</p> <p>Year: <input style="width: 150px;" type="text" value="2016"/></p> <p><input checked="" type="radio"/> 1-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input type="radio"/> N/A</p> <p>If N/A, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																	
<p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 30%; text-align: right;"><input style="width: 150px;" type="text" value="636,725.00"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="45,774.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="682,499.00"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="0.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 150px;" type="text" value="636,725.00"/>	3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	+	\$	<input style="width: 150px;" type="text" value="45,774.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="682,499.00"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 150px;" type="text" value="0.00"/>	
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3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="682,499.00"/>														
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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below\*)

- \$ 0.00

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

\$ 682,499.00

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

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

3.3 What amount should be in your Replacement Fund?

\$ 278,962.00

0

Please note: If you had a CWFPP 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	5 YEAR CIP ANNUAL REVIEW - Sewer Main replacement	763000	2018
2	WWTP - Screw Press De-watering addition and WWTP upgrades	2700000	2017

## 5. Financial Management General Comments

As a result of the potential WWTP screw press project fees and rates will be reassessed in the coming months.

## 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	14,237	4
February	12,923	3
March	11,771	3
April	12,416	3
May	9,782	4
June	7,418	2
July	15,372	22
August	6,552	3
September	9,057	3
October	6,981	3
November	9,890	3
December	11,368	3
Total	127,767	56
Average	10,647	5

## 6.1.2 Comments:

## 6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply):

- Comminution or Screening
- Extended Shaft Pumps
- Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- Variable Speed Drives
- Other:

## 6.2.2 Comments:

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

No

Yes

Year:

2009

By Whom:

Foth Engineering

Describe and Comment:

Part of the 2009 plant reconstruction and addition of the windmill.

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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?

## 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	49,928	12.01	4,157	23.53	2,122	525
February	40,608	11.10	3,658	24.30	1,671	434
March	26,789	12.35	2,169	30.50	878	180
April	45,216	12.27	3,685	24.81	1,822	249
May	45,216	12.07	3,746	22.91	1,974	44
June	46,656	11.44	4,078	18.72	2,492	8
July	51,840	11.92	4,349	10.94	4,739	28
August	45,504	12.69	3,586	21.17	2,149	9
September	62,208	12.26	5,074	19.17	3,245	7
October	38,016	13.27	2,865	23.81	1,597	10
November	52,416	11.91	4,401	30.21	1,735	11
December	44,352	12.37	3,585	40.49	1,095	464
Total	548,749	145.66		290.56		1,969
Average	45,729	12.14	3,779	24.21	2,127	164

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
- Mechanical Sludge Processing
- Nitrification
- SCADA System
- UV Disinfection
- Variable Speed Drives
- Other:

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## 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?

We are putting in new blowers for the VLR and for the Digester that are more efficient.

## 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:

2009

By Whom:

Foth Engineering

Describe and Comment:

Part of the 2009 plant reconstruction and addition of the windmill.

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:

Did you accomplish them?

- Yes
- No

If No, explain:

- Organization [NR 210.23 (4) (b)]

Does this chapter of your CMOM include:

- Organizational structure and positions (eg. organizational chart and position descriptions)
- Internal and external lines of communication responsibilities
- Person(s) responsible for reporting overflow events to the department and the public

- Legal Authority [NR 210.23 (4) (c)]

What is the legally binding document that regulates the use of your sewer system?

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

Does your sewer use ordinance or other legally binding document address the following:

- Private property inflow and infiltration
  - New sewer and building sewer design, construction, installation, testing and inspection
  - Rehabilitated sewer and lift station installation, testing and inspection
  - Sewage flows satellite system and large private users are monitored and controlled, as necessary
  - Fat, oil and grease control
  - Enforcement procedures for sewer use non-compliance
  - Operation and Maintenance [NR 210.23 (4) (d)]
- Does your operation and maintenance program and equipment include the following:
- Equipment and replacement part inventories
  - Up-to-date sewer system map
  - A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation

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A description of routine operation and maintenance activities (see question 2 below)  
 Capacity assessment program  
 Basement back assessment and correction  
 Regular O&M training  
 Design and Performance Provisions [NR 210.23 (4) (e)]  
 What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?  
 State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements  
 Construction, Inspection, and Testing  
 Others:

Overflow Emergency Response Plan [NR 210.23 (4) (f)]  
 Does your emergency response capability include:  
 Responsible personnel communication procedures  
 Response order, timing and clean-up  
 Public notification protocols  
 Training  
 Emergency operation protocols and implementation procedures  
 Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]  
 Special Studies Last Year (check only those that apply):  
 Infiltration/Inflow (I/I) Analysis  
 Sewer System Evaluation Survey (SSES)  
 Sewer Evaluation and Capacity Management Plan (SECAP)  
 Lift Station Evaluation Report  
 Others:

0

2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning	<input type="text" value="25"/>	% of system/year
Root removal	<input type="text" value="25"/>	% of system/year
Flow monitoring	<input type="text" value="0"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="1"/>	% of system/year
Manhole inspections	<input type="text" value="25"/>	% of system/year
Lift station O&M	<input type="text" value="8"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="0"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="0"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="0"/>	% of system/year
Private sewer I/I removal	<input type="text" value="0"/>	% of private services

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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="44.83"/>	Total actual amount of precipitation last year in inches
<input type="text" value="35.7"/>	Annual average precipitation (for your location)
<input type="text" value="27"/>	Miles of sanitary sewer
<input type="text" value="8"/>	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="2"/>	Number of basement backup occurrences
<input type="text" value="2"/>	Number of complaints
<input type="text" value="0.397"/>	Average daily flow in MGD (if available)
<input type="text" value="0.428"/>	Peak monthly flow in MGD (if available)
<input type="text" value="2.125"/>	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="0.07"/>	Complaints (number/sewer mile)
<input type="text" value="1.1"/>	Peaking factor ratio (Peak Monthly: Annual Daily Avg)
<input type="text" value="5.4"/>	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:

After it rains any amount there is a noticeable amount of clear water coming through the system.

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

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<p>If Yes, please describe:</p> <input type="text"/>
<p>5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:</p> <input type="text" value="None"/>
<p>5.4 What is being done to address infiltration/inflow in your collection system?</p> <input type="text" value="Replacement of the collection system as we replace roads."/>

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

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## Grading Summary

WPDES No: 0023957

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
Groundwater	D	1	7	7
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			31	103
GRADE POINT AVERAGE (GPA) = 3.32				

### 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 Evansville-City Council

Date of Resolution or  
Action Taken:

2017-06-13

Resolution Number:

2017-14

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

Groundwater: Grade = D

We are working on the chloride reduction plan.

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)

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL  
GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

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

G.P.A. = 3.32