

# Compliance Maintenance Annual Report

Dorchester Wastewater Treatment Facility

Last Updated: Reporting For:

6/8/2017

2016

## Resolution or Owner's Statement

Name of Governing  
Body or Owner:

Village of Dorchester

Date of Resolution or  
Action Taken:

6/7/2017

Resolution Number:

298

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 = B

Effluent Quality: Ammonia: Grade = A

Effluent Quality: Phosphorus: Grade = A

Ponds: 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)

### 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. = 3.89

Keep working on I & I. Replacing sewer lines when road projects come up. Also working with MSA on phosphorus study.

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## 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	0.0790	x	267	x	8.34	=	176
February	0.0778	x	246	x	8.34	=	159
March	0.1976	x	132	x	8.34	=	218
April	0.1455	x	94	x	8.34	=	113
May	0.1194	x	190	x	8.34	=	189
June	0.1144	x	150	x	8.34	=	143
July	0.0855	x	125	x	8.34	=	89
August	0.1067	x	216	x	8.34	=	192
September	0.1018	x	190	x	8.34	=	161
October	0.0922	x	181	x	8.34	=	139
November	0.0890	x	166	x	8.34	=	123
December	0.1071	x	104	x	8.34	=	93

### 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	.128	x	90	=	0.1152
		x	100	=	.128
Design (C)BOD, lbs/day	304	x	90	=	273.6
		x	100	=	304

#### 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	1	1	0	0
April	1	1	1	0	0
May	1	1	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	0	0
Points per each		2	1	3	2
Exceedances		3	2	0	0
Points		6	2	0	0
<b>Total Number of Points</b>					<b>8</b>

8

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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)

8/16/2016

- 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                        |
|-------------------------------------|--------------------------------------|-------------------------------------|
| <input type="radio"/> Yes           | <input checked="" type="radio"/> Yes | <input type="radio"/> Yes           |
| <input checked="" type="radio"/> No | <input type="radio"/> No             | <input checked="" type="radio"/> 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.

No difference

## 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.

N/A

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

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Yes

No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.

N/A

<b>Total Points Generated</b>	<b>8</b>
<b>Score (100 - Total Points Generated)</b>	<b>92</b>
<b>Section Grade</b>	<b>A</b>

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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	12	10.8	4	1	0	0
February	12	10.8	3	1	0	0
March	25	22.5	5	1	0	0
April	25	22.5	11	1	0	0
May	25	22.5	12	1	0	0
June	10	10				
July	12	10.8	7	1	0	0
August	12	10.8	7	1	0	0
September	12	10.8	6	1	0	0
October	12	10.8	8	1	0	0
November	12	10.8	5	1	0	0
December	12	10.8	1	1	0	0

\* Equals limit if limit is <= 10

Months of discharge/yr	11		
Points per each exceedance with 11 months of discharge		8	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?

N/A

### 2. Flow Meter Calibration

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

- Yes Enter last calibration date (MM/DD/YYYY)  
8/16/2016

No

If No, please explain:

### 3. Treatment Problems

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

Wet Spring, wet fall which led to more I & I influent and the rain caused more effluent then usual

### 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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If Yes, please explain:

4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?

- Yes
- No

If Yes, please explain:

4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?

- Yes
- No
- N/A

Please explain unless not applicable:

<b>Total Points Generated</b>	<b>0</b>
<b>Score (100 - Total Points Generated)</b>	<b>100</b>
<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	60	54	13	1	0	0
February	60	54	9	1	0	0
March	60	54	12	1	0	0
April	60	54	28	1	0	0
May	60	54	39	1	0	0
June	10	10				
July	60	54	63	1	1	1
August	60	54	28	1	0	0
September	60	54	32	1	0	0
October	60	54	20	1	0	0
November	60	54	16	1	0	0
December	60	54	6	1	0	0

11

\* Equals limit if limit is <= 10

Months of Discharge/yr	11		
<b>Points per each exceedance with 11 months of discharge:</b>	<b>8</b>	<b>3</b>	
Exceedances	1	1	
Points	8	3	
<b>Total Number of Points</b>		<b>11</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?

Algae bloom due to sunnier hotter days in part of July. It settled out in a couple of weeks

<b>Total Points Generated</b>	11
<b>Score (100 - Total Points Generated)</b>	89
<b>Section Grade</b>	<b>B</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 Exceedance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceedance
January	6.5		3.175	0					
February	6.5		5.525	0					
March	10		8.94	0					
April	13		8.825	0					
May	11		1.525	0					
June	2.6			0					
July	2.3		0	0					
August	2.5		.82	0					
September	3.6		.1	0					
October	5.7		.05	0					
November	7.2		.22	0					
December	6.5		1.25	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>

0

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

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

N/A

<b>Total Points Generated</b>	<b>0</b>
<b>Score (100 - Total Points Generated)</b>	<b>100</b>
<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	8	5.2	1	0
February	8	5.7	1	0
March	8	5.9	1	0
April	8	6.9	1	0
May	8	7.0	1	0
June	8			
July	8	1.7	1	0
August	8	1.7	1	0
September	8	2.4	1	0
October	8	2.5	1	0
November	8	3.0	1	0
December	8	3.9	1	0
Months of Discharge/yr			11	
<b>Points per each exceedance with 11 months of discharge:</b>				<b>11</b>
Exceedances				0
<b>Total Number of Points</b>				<b>0</b>

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?

N/A

<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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## Ponds And Lagoon Leakage

### 1. Pond Lining

#### 1.1 What material was used to line your ponds?

Ponds 1, 2 & 3 - Clay Ponds 4 & 5 - PVC

### 2. Flow Measurements

#### 2.1 Did you measure influent flow to your wastewater ponds or lagoons?

- Yes (0 points)
- No (40 points) (Go to question 6)

##### 2.1.1 Method of influent flow measurement:

Electromagnetic Flow Meter

#### 2.2 Did you measure effluent flow discharged from your wastewater system either to the land disposal system or to the receiving stream?

- Yes (0 points)
- No (40 points) (Go to question 6)
- No Discharge (0 points)

##### 2.2.1 Method of effluent flow measurement:

Electromagnetic Flow Meter

0

### 3. Total Flow Volumes

#### 3.1 Total monthly influent and effluent flow volumes from the pond/lagoon system during the last calendar year.

Total Monthly Influent Volume		Total Monthly Effluent Volume
2.448	JANUARY	3.035
2.256	FEBRUARY	2.906
6.125	MARCH	5.591
4.364	APRIL	5.699
3.7	MAY	5.92
3.433	JUNE	
2.649	JULY	3.494
3.309	AUGUST	3.92
3.053	SEPTEMBER	3.829
2.859	OCTOBER	3.457
2.67	NOVEMBER	2.983
3.321	DECEMBER	4.484
<b>40.1870</b>	<b>YEARLY TOTAL</b>	<b>45.3180</b>

#### 3.2 From the Yearly Total influent and effluent volumes above, total effluent is divided by total influent and converted to a percent of volume loss.

Total effluent, MG => 45.3180  
----- = 1.128 <= effl / infl ratio  
Total influent, MG => 40.1870

#### Conversion to a percent of volume loss:

(1-effl/infl ratio) \* 100 = -12.8 % of influent lost and not discharged with effluent

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## 4. Surface Area

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

9.1 Acres

## 5. Leakage Rate Estimation

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

Total Annual Influent (MG)	40.1870	
Total Annual Effluent (MG)	45.3180	
Estimated Net Loss (MG)	-5.1310	
Estimated Leakage Amount (gpd)		45.3180

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

o Storage Increase: Enter amount in MG ->

o Storage Decrease: Enter amount in MG ->

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

Leakage Amount (gpd)		Acres		CMAR Estimated Leakage Rate
-14058	divided by	9.1	=	-1545

## 6. On Site Leakage Testing

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

o Yes Year

● No

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

gpad

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

## 6.2 Leakage Rate Comments:

N/A

## 7. Estimated Leakage Rate and Points

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

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

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

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

0

<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:

Lagoons

### 3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

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

#### Outfall No. 003 - LAGOON SLUDGE

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

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

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

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

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

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

Exceedence Points

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

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

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

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<p>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?</p> <p>N/A</p>	0
<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> <ul style="list-style-type: none"> <li><input type="radio"/> &gt;= 180 days (0 Points)</li> <li><input type="radio"/> 150 - 179 days (10 Points)</li> <li><input type="radio"/> 120 - 149 days (20 Points)</li> <li><input type="radio"/> 90 - 119 days (30 Points)</li> <li><input type="radio"/> &lt; 90 days (40 Points)</li> <li><input checked="" type="radio"/> N/A (0 Points)</li> </ul> <p>6.2 If you checked N/A above, explain why.</p> <p>Lagoons</p>	0
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <p>N/A</p>	

<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><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; padding: 2px;">N/A</div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; padding: 2px;">N/A</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; padding: 2px;">N/A</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;"></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 checked="" type="radio"/> Paper file system</li><li><input type="radio"/> Computer system</li><li><input 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 checked="" type="radio"/> Very good</li><li><input 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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Ponds 1, 2 and 3 were cleaned out in 2011. In 2012 the lift station was replaced along with aerators and blowers. Despite weather related issues mainly wet weather, ponds ran as good as to be expected.

<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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## 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:

RICHARD P GOLZ

Certification No:

34402

0

### 2. Certification Requirements

2.1 In accordance with Chapter NR 114.56 and 114.57, Wisconsin Administrative Code, what level and subclass(es) were required for the operator-in-charge (OIC) to operate the wastewater treatment plant and what level and subclass(es) were held by the operator-in-charge?

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

0

2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS, N and A5 not required in 2016; subclass SS is basic level only.)

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

### 3. Succession Planning

3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)?

- One or more additional certified operators on staff
- An arrangement with another certified operator
- An arrangement with another community with a certified operator
- An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year
- A consultant to serve as your certified operator
- None of the above (20 points)

If "None of the above" is selected, please explain:

0

### 4. Continuing Education Credits

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

OIT and Basic Certification:

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

Advanced Certification:

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

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

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## Financial Management

<b>1. Provider of Financial Information</b> Name: <input type="text" value="Brooke Ruge"/> Telephone: <input type="text" value="7156545006"/> (XXX) XXX-XXXX E-Mail Address (optional): <input type="text"/>		
<b>2. Treatment Works Operating Revenues</b> 2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ? <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points) If No, please explain: <input type="text" value="N/A"/> 2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input type="text" value="2016"/> <input checked="" type="radio"/> 0-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> N/A (private facility) 2.3 Did you have a special account (e.g., CWFPP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system? <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points)		<b>0</b>
<b>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</b>		
<b>3. Equipment Replacement Funds</b> 3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input type="text" value="2016"/> <input checked="" type="radio"/> 1-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> N/A If N/A, please explain: <input type="text"/>		
<b>3.2 Equipment Replacement Fund Activity</b>		
<b>3.2.1 Ending Balance Reported on Last Year's CMAR</b>	\$ <input type="text" value="10,129.09"/>	
<b>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</b>	\$ <input type="text" value="0.00"/>	
<b>3.2.3 Adjusted January 1st Beginning Balance</b>	\$ <input type="text" value="10,129.09"/>	
<b>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</b>	\$ <input type="text" value="0.00"/>	
	+	\$ <input type="text" value="0.00"/>

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2016

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

\$ 8,105.00

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

\$ 2,024.09

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.

Influent meter

3.3 What amount should be in your Replacement Fund?

\$ 2,000.00

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.

N/A

## 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	Phosphorus Removal	3,500,000	2020

## 5. Financial Management General Comments

N/A

## 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	744	
February	797	
March	940	
April	738	
May	628	
June	647	
July	546	
August	517	
September	438	
October	371	
November	346	
December	520	
Total	7,232	0
Average	603	0

### 6.1.2 Comments:

N/A

### 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:

N/A

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

- No
- Yes

Year:

By Whom:

Describe and Comment:

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## 6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

None at this point as complete lift station was rebuilt in 2012.

## 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	18,867	2.45	7,701	5.46	3,455	
February	19,121	2.26	8,461	4.61	4,148	
March	19,863	6.13	3,240	6.76	2,938	
April	18,828	4.37	4,308	3.39	5,554	
May	16,509	3.70	4,462	5.86	2,817	
June	16,925	3.43	4,934	4.29	3,945	
July	15,834	2.65	5,975	2.76	5,737	
August	15,618	3.31	4,718	5.95	2,625	
September	17,357	3.05	5,691	4.83	3,594	
October	18,294	2.86	6,397	4.31	4,245	
November	18,267	2.67	6,842	3.69	4,950	
December	22,862	3.32	6,886	2.88	7,938	
<b>Total</b>	<b>218,345</b>	<b>40.20</b>		<b>54.79</b>		<b>0</b>
<b>Average</b>	<b>18,195</b>	<b>3.35</b>	<b>5,801</b>	<b>4.57</b>	<b>4,329</b>	<b>0</b>

#### 7.1.2 Comments:

This includes 1 lift station that pumps from collection system to ponds plus 1 lift station that lifts from pond 3 to pond 4 that is all inside the WWTP fence.

## 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:

N/A

## 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?

Not sure as at present time actively participating in energy analysis of blowers and aerators on ponds 1, 2 and 3.

## 8. Biogas Generation

### 8.1 Do you generate/produce biogas at your facility?

No

Yes

If Yes, how is the biogas used (Check all that apply):

Flared Off

Building Heat

Process Heat

Generate Electricity

Other:

## 9. Energy Efficiency Study

### 9.1 Has an Energy Study been performed for your treatment facility?

No

Yes

Entire facility

Year:

By Whom:

Describe and Comment:

Part of the facility

Year:

2016

By Whom:

Engergences

Describe and Comment:

Engergences is looking at blowers and aerators along with possible DO reader to run blowers

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



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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:

## 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="30"/>	% of system/year
Root removal	<input type="text" value="5"/>	% 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="3"/>	% of system/year
Manhole inspections	<input type="text" value="25"/>	% of system/year
Lift station O&M	<input type="text" value="100"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="2"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="1"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="5"/>	% 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:

Continue to monitor I & I

### 3. Performance Indicators

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

<input type="text" value="42.26"/>	Total actual amount of precipitation last year in inches
<input type="text" value="27.96"/>	Annual average precipitation (for your location)
<input type="text" value="8.766"/>	Miles of sanitary sewer
<input type="text" value="3"/>	Number of lift stations
<input type="text" value="1"/>	Number of lift station failures
<input type="text" value="0"/>	Number of sewer pipe failures
<input type="text" value="3"/>	Number of basement backup occurrences
<input type="text" value="3"/>	Number of complaints
<input type="text"/>	Average daily flow in MGD (if available)
<input type="text"/>	Peak monthly flow in MGD (if available)
<input type="text"/>	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

<input type="text" value="0.33"/>	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="0.34"/>	Basement backups (number/sewer mile)
<input type="text" value="0.34"/>	Complaints (number/sewer mile)
<input type="text"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text"/>	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:

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:

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Spring time melt and rain at same time

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

Last several years has been more then the past

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

Dorchester has replaced sewer lines in past and Dorchester is replacing 2nd Street this year

<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: 0021571

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	B	3	5	15
Ammonia	A	4	5	20
Phosphorus	A	4	3	12
Ponds	A	4	7	28
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>44</b>	<b>171</b>
<b>GRADE POINT AVERAGE (GPA) = 3.89</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)