

**VILLAGE OF WINDSOR
BOARD RESOLUTION 2019-71**

2018 COMPLIANCE MAINTENANCE ANNUAL REPORT

WHEREAS, Wisconsin Administrative Code, Chapter NR 208, implements the requirements of the Compliance Maintenance Annual Report (CMAR) for publicly and privately owned domestic wastewater treatment works; and

WHEREAS, the CMAR is a self-evaluation tool that promotes the owner's awareness and responsibility for wastewater collection and treatment needs, measures the performance of wastewater treatment work during the year, and assesses its level of compliance with permit requirements; and

WHEREAS, the Village Utility Staff completed the 2018 CMAR for the Village of Windsor Sewer Utility; and

WHEREAS, the Village Public Works Committee reviewed the completed 2018 CMAR and recommended approval to the Village Board on June 11, 2019; and

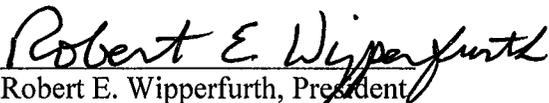
WHEREAS, the CMAR was submitted to the Wisconsin Department of Natural Resources; and

NOW, THEREFORE, BE IT RESOLVED by the Village Board of the Village of Windsor as follows:

1. The Compliance Maintenance Annual Report for the Village of Windsor Sewer Utility is hereby confirmed as submitted and as shown on Exhibit A.

The above and foregoing resolution was duly adopted by the Village Board of the Village of Windsor, Dane County, Wisconsin at a meeting held on the June 20, 2019, by a vote of 5 in favor and 0 opposed.

VILLAGE OF WINDSOR


Robert E. Wipperfurth, President

Attested by:


Christine Capstran, Clerk

INCORPORATED BY REFERENCE:
2018 Compliance Maintenance Annual Report (CMAR)

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 2018

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 300px;" type="text" value="JEFFREY BARTOSIAK"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="608-888-0011"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="JEFF@WINDSORWI.GOV"/></p>													
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p>● Yes (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ No (40 points)</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input style="width: 100px;" type="text" value="2019"/></p> <p>● 0-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWF required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p>● Yes (0 points)</p> <p>○ No (40 points)</p>	0												
<p>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</p>													
<p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input style="width: 100px;" type="text" value="2019"/></p> <p>● 1-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A</p> <p>If N/A, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 35%; text-align: right;"><input style="width: 100%;" type="text" value="374,603.61"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="374,603.61"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR	\$	<input style="width: 100%;" type="text" value="374,603.61"/>	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: 100%;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance	\$	<input style="width: 100%;" type="text" value="374,603.61"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$	<input style="width: 100%;" type="text" value="0.00"/>	
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Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 2018

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 \$ 374,603.61

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? \$ 374,603.61 0

Please note: If you had a CWFP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

Yes
 No

If No, please explain.

4. Future Planning

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

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

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	County Trunk Highway DM Sanitary Sewer Improvements	25000	2020
2	County Trunk Highway CV Sanitary Sewer Improvements	167000	2020
3	Golf Drive and Fairway Circle Sanitary Sewer Improvements	197000	2021
4	County Trunk Highway CV Sanitary Sewer Improvements	590000	2021

5. Financial Management General Comments

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: 4

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 2018

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	4,920	60
February	4,812	48
March	4,586	35
April	4,657	41
May	5,212	18
June	5,236	17
July	4,447	23
August	3,563	20
September	5,811	20
October	5,731	23
November	6,122	32
December	7,438	40
Total	62,535	377
Average	5,211	31

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

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

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

6.2.2 Comments:

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

- No
- Yes

Year:

By Whom:

Describe and Comment:

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 2018

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?

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

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:

5/28/2019

2018

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:

TO MAINTAIN AN ADEQUATE SEWER SYSTEM AND TO MAINTAIN CUSTOMER SATISFACTION BY MAINTAINING ZERO BACKUPS OR OVERFLOWS.

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?

SEWER USE ORDINANCE

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 12/30/2016

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

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 **2018**

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

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

2. Operation and Maintenance

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

Cleaning	<input type="text" value="11"/>	% of system/year
Root removal	<input type="text" value="8"/>	% 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="7"/>	% of system/year
Manhole inspections	<input type="text" value="20"/>	% 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

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 2018

Private sewer I/I removal % of private services

River or water crossings % of pipe crossings evaluated or maintained

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

3. Performance Indicators

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

50.64	Total actual amount of precipitation last year in inches
34.5	Annual average precipitation (for your location)
31.25	Miles of sanitary sewer
4	Number of lift stations
0	Number of lift station failures
0	Number of sewer pipe failures
0	Number of basement backup occurrences
0	Number of complaints
0.508	Average daily flow in MGD (if available)
00	Peak monthly flow in MGD (if available)
	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

0.00	Lift station failures (failures/year)
0.00	Sewer pipe failures (pipe failures/sewer mile/yr)
0.03	Sanitary sewer overflows (number/sewer mile/yr)
0.00	Basement backups (number/sewer mile)
0.00	Complaints (number/sewer mile)
0.0	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
0.0	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 7/17/2018 7:30:00 AM - 7/17/2018 8:45:00 AM	25 gallons at 4646 Meadowlark Drive	Broken Sewer, Broken Sewer	0 - 0

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

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

We will continue to monitor our collection system including force main sewers for potential areas of XXO and TF'Os. A significant amount of sanitary sewer televising has been completed and will continue in 2019 to identify sewers and manholes where the need for "high priority" repairs have been noted. These improvements are planned for years 2020 through 2022 to match expected roadway improvements.

5. Infiltration / Inflow (I/I)

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

- Yes
- No

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:
5/28/2019 **2018**

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:

This is the second year that the CMAR combines data from the Morrisonville (E-25-FR), Lake Windsor (Q-007), and Oak Springs (Q-004) areas. The total wastewater flow (with I/I) from all basins has increased over 2017 flows by approximately 14.4%. Corresponding water sales from PSC data increased by 11.8% over the same period. The increase in water sales is attributable to increased growth in the Village of Windsor. While not all basins are provided with water from Windsor Utility, the majority of the system is provided with water from Windsor Utility, hence the increase in waste water flow can then logically be explained as an increase due to growth. Total estimated I/I increases based on the difference in water use, would mathematically appear to be between 2% to 3% than year 2017.

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

A significant amount of sanitary sewer televising has been completed and will continue in 2019 to identify sewers and manholes where the need for "high priority" repairs have been noted. These improvements are planned for years 2018, 2019 and 2020 to match expected roadway improvements. Additionally we have recently identified areas where homeowners are suspected of having illegal sump pump connections. Letters to homeowners have been sent out and if needed basement inspections will be performed to help eliminate these clear water discharges to the sanitary system

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

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

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Grading Summary

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			4	16
GRADE POINT AVERAGE (GPA) = 4.00				

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)

Compliance Maintenance Annual Report

Village Of Windsor Sewer Utility

Last Updated: Reporting For:

5/28/2019

2018

Resolution or Owner's Statement

Name of Governing
Body or Owner:

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):

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. = 4.00