

STATE OF WISCONSIN

VILLAGE OF PEWAUKEE WAUKESHA COUNTY

RESOLUTION NO. 2021-15

**RESOLUTION REGARDING THE WISCONSIN DEPARTMENT OF  
NATURAL RESOURCES REPORTING YEAR 2020 COMPLIANCE  
MAINTENANCE ANNUAL REPORT**

**WHEREAS**, it is a requirement under a Wisconsin Pollutant Discharge Elimination system (WPDES) permit issued by the Wisconsin Department of Natural Resources to file a Compliance Maintenance Annual Report (CMAR) for its wastewater treatment/wastewater collection system under Wisconsin Administrative Code NR208, and

**WHEREAS**, it is necessary to acknowledge that the governing body has reviewed the Compliance Maintenance Annual Report; and

**WHEREAS**, it is necessary to provide recommendations or an action response plan for all individual CMAR section grades (of "C" or less) and/or an overall grade point average (<3.00);


**NOW, THEREFORE, BE IT RESOLVED** by the Village Board of the Village of Pewaukee that the following actions will be taken to address or correct problems/deficiencies of the collection system as identified in the Compliance Maintenance Annual Report;

Recommended Actions:           None required, grade of "A"

ADOPTED June 1, 2021

  
\_\_\_\_\_  
Jeff Krutson, Village President

ATTEST:

  
\_\_\_\_\_  
Casandra Smith, Village Clerk

## Compliance Maintenance Annual Report

Pewaukee Village Sewage Collection System

Last Updated: Reporting For:  
5/11/2021 2020

### Financial Management

#### 1. Provider of Financial Information

Name:

Daniel Naze

Telephone:

2626915694

(XXX) XXX-XXXX

E-Mail Address  
(optional):

#### 2. Treatment Works Operating Revenues

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

- Yes (0 points)
- No (40 points)

If No, please explain:

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

Year:

2020

- 0-2 years ago (0 points)
- 3 or more years ago (20 points)
- N/A (private facility)

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

- Yes (0 points)
- No (40 points)

REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]

#### 3. Equipment Replacement Funds

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

Year:

2020

- 1-2 years ago (0 points)
- 3 or more years ago (20 points)
- N/A

If N/A, please explain:

#### 3.2 Equipment Replacement Fund Activity

3.2.1 Ending Balance Reported on Last Year's CMAR \$ 309,243.97

3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.) \$ 0.00

3.2.3 Adjusted January 1st Beginning Balance \$ 309,243.97

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.) + \$ 10,892.00

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below\*) \$ 100,482.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$ 219,653.97

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.

pump and motor #4 replacement. Pump 2 motor rebuild.

3.3 What amount should be in your Replacement Fund? \$ 249,663.00

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.

Interest earnings were lower than expected, and major replacement expenditures have been significant over the last two years. The Village is committed to fully funding future capital replacements.

#### 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	Removal of Kopmeier lift station.	425000	2022
2	Savoy Ct Relay	90000	2023
3	E Wisconsin Ave reconstruction	625000	2022
4	Park Hills Sewer relay and upsizer	400000	2021
5	Prospect Ave sanitary sewer relay	125000	2023

#### 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: 5

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	44,036	1,340
February	43,363	1,345
March	47,467	999
April	46,209	843
May	44,770	400
June	38,632	53
July	35,772	4
August	30,119	0
September	30,343	181
October	30,358	631
November	34,785	1,023
December	40,793	1,840
<b>Total</b>	<b>466,647</b>	<b>8,659</b>
<b>Average</b>	<b>38,887</b>	<b>787</b>

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:

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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?

Removal of the Kopmeier Lift Station.

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

## Compliance Maintenance Annual Report

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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:

Televised 15% Yes, 18%  
 Sewer jetting 15% yes, 19%  
 Inspect MH 15% No, 13%  
 Rehab MH based on inspection yes  
 Optimized use of GIS yes  
 Evaluate Safety program yes  
 Evaluate Customer Service and Public Education yes  
 Integrate CMOM into budget yes

Did you accomplish them?

- Yes
- No

If No, explain:

Missed MH inspections goal by quantity of 5 manholes.

- 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?

Ch 90b Village Ord

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2013-12-17

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

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- 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
- 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:

Village commissioned City of Pewaukee NW sanitary sewer service study, with proposed flow to be conveyed through Village. Metering at 3 locations

#### 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	18	% of system/year
Root removal	0	% of system/year
Flow monitoring	20	% of system/year
Smoke testing	0	% of system/year
Sewer line televising	18	% of system/year
Manhole inspections	13	% of system/year
Lift station O&M	60	# per L.S./year
Manhole rehabilitation	1	% of manholes rehabbed

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Mainline rehabilitation	<input type="text" value="1"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="0"/>	% of system/year
Private sewer I/I removal	<input type="text" value="1"/>	% of private services
River or water crossings	<input type="text" value="0"/>	% of pipe crossings evaluated or maintained

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

2020 upgrades  
 3 manholes and 485' clay sewer replaced on West Avenue.  
 Heavy I/I corrected in 2 MH's, Westfield Way and Oakton Ave.

3. Performance Indicators

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

<input type="text" value="32.8"/>	Total actual amount of precipitation last year in inches
<input type="text" value="34.6"/>	Annual average precipitation (for your location)
<input type="text" value="33.7"/>	Miles of sanitary sewer
<input type="text" value="5"/>	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="0"/>	Number of complaints
<input type="text" value="1.41"/>	Average daily flow in MGD (if available)
<input type="text" value="1.58"/>	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="0.00"/>	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="0.06"/>	Basement backups (number/sewer mile)
<input type="text" value="0.00"/>	Complaints (number/sewer mile)
<input type="text" value="1.1"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="0.0"/>	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **			
Date	Location	Cause	Estimated Volume
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

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No

If Yes, please describe:

Higher flows are observed at Lift Station 1 during large rain events

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:

none

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

Capitol improvement plan replacements, limited rehab of known problems, 2020 was 3rd year of televising program.

<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: 0047341

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

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)