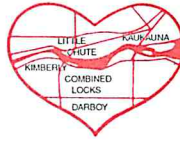


DISTRICT DIRECTOR:

Brian M. Helminger



COMMISSIONERS:

David J. Casper, President
Bruce M. Siebers, Vice-Pres.
Patrick E. Hennessey, Secretary
Kevin P. Coffey
John W. Sundelius

SERVING:

Combined Locks
Kaukauna
Kimberly
Little Chute
Darbo S.D.

**Heart of the Valley
METROPOLITAN SEWERAGE DISTRICT**

801 THILMANY ROAD
KAUKAUNA, WISCONSIN 54130
(920) 766-5731 FAX (920) 766-5733
www.hvmsd.org

RESOLUTION NO. 199

BE IT RESOLVED, that the Heart of the Valley Metropolitan Sewerage District Commission has reviewed and understands the 2021 Compliance Maintenance Annual Report that is attached to this Resolution and will be submitted to the Wisconsin DNR.

APPROVED _____

**David J. Casper
President**

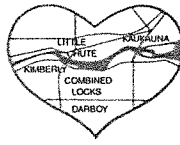
ATTEST _____

**Patrick E. Hennessey
Secretary**

The above Resolution was approved and adopted by the Heart of the Valley Metropolitan Sewerage District Commission on **June 14, 2022** by unanimous roll call vote.

DISTRICT DIRECTOR:

Brian M. Helminger



COMMISSIONERS:

David J. Casper, President
Bruce M. Siebers, Vice-Pres.
Patrick E. Hennessey, Secretary
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June 6, 2022

District Commissioners & District Director
Heart of the Valley Metropolitan Sewerage District

Gentlemen;

The State of Wisconsin Department of Natural Resources 2021 "Compliance Maintenance Annual Report" (CMAR) preparation has been completed. Please review the document, ask any questions, and be prepared to accept the document, by resolution, at the June 14th Commission meeting.

In summary, regulatory compliance in 2021 was good. The District received a grade "A" in all sections of the CMAR except for the Influent flow and loadings where the District received a "D". The District was over 90% of its rated design 8 times and over 100% of design 3 times. On the Resolution/Owners Statement please see the response.

The District has maintained, and must continue to maintain adequate funds to cover the amount required for the Replacement Fund Account.

Adoption of the CMAR Resolution #199 by the Commission at the June 14th meeting, and final submittal of completed forms and Resolution to the DNR will complete the CMAR compliance process for 2021.

Respectfully Submitted,

Kevin Skogman
Director of Operations & Maintenance

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:
6/1/2022 **2021**

Influent Flow and Loading

1. Monthly Average Flows and BOD Loadings

1.1 Verify the following monthly flows and BOD loadings to your facility.

Influent No. 701	Influent Monthly Average Flow, MGD	x	Influent Monthly Average BOD Concentration mg/L	x	8.34	=	Influent Monthly Average BOD Loading, lbs/day
January	4.8838	x	300	x	8.34	=	12,213
February	4.8289	x	311	x	8.34	=	12,506
March	7.3441	x	212	x	8.34	=	13,003
April	6.7640	x	231	x	8.34	=	13,027
May	6.3989	x	264	x	8.34	=	14,101
June	6.3909	x	296	x	8.34	=	15,773
July	8.3657	x	202	x	8.34	=	14,125
August	8.4006	x	227	x	8.34	=	15,879
September	6.4042	x	256	x	8.34	=	13,688
October	5.4997	x	315	x	8.34	=	14,459
November	4.8338	x	356	x	8.34	=	14,369
December	5.4025	x	329	x	8.34	=	14,816

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	11.9	x	90	=	10.71
		x	100	=	11.9
		x	90	=	13185.9
Design BOD, lbs/day	14651	x	100	=	14651
		x	90	=	13185.9

2.2 Verify the number of times the flow and 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 BOD was greater than 90% of design	Number of times 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	1	0
June	1	0	0	1	1
July	1	0	0	1	0
August	1	0	0	1	1
September	1	0	0	1	0
October	1	0	0	1	0
November	1	0	0	1	0
December	1	0	0	1	1
Points per each		2	1	3	2
Exceedances		0	0	8	3
Points		0	0	24	6
Total Number of Points					30

30

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

3. Flow Meter

3.1 Was the influent flow meter calibrated in the last year?

- Yes

Enter last calibration date (MM/DD/YYYY)

2021-12-07

- 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 63,600 gallons

- No

Holding Tanks

- Yes 2,276,520 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.

The Plant has a receiving station which enables the District to pump the waste at a controlled rate to the influent channel of the head works building controlling the impact to the treatment process.

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.

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

<div data-bbox="142 184 1469 241" style="border: 1px solid black; height: 27px;"></div> <p>6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?</p> <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 data-bbox="142 426 1469 478" style="border: 1px solid black; height: 25px;"></div>

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

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	30	27	9	1	0	0
February	30	27	10	1	0	0
March	30	27	7	1	0	0
April	30	27	6	1	0	0
May	30	27	6	1	0	0
June	30	27	10	1	0	0
July	30	27	14	1	0	0
August	30	27	12	1	0	0
September	30	27	11	1	0	0
October	30	27	12	1	0	0
November	30	27	13	1	0	0
December	30	27	14	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?

No Violations.

2. Flow Meter Calibration

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

Yes Enter last calibration date (MM/DD/YYYY)

2021-12-07

No

If No, please explain:

3. Treatment Problems

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

None.

4. Other Monitoring and Limits

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

Yes

No

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

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:

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

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	30	27	11	1	0	0
February	30	27	11	1	0	0
March	30	27	7	1	0	0
April	30	27	7	1	0	0
May	30	27	6	1	0	0
June	30	27	10	1	0	0
July	30	27	15	1	0	0
August	30	27	14	1	0	0
September	30	27	16	1	0	0
October	30	27	17	1	0	0
November	30	27	19	1	0	0
December	30	27	17	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?						
No Violations.						

0

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

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	10		.429	0					
February	10		.42	0					
March	10		.283	0					
April	11		.311	0					
May	11		.382	0					
June	4.4		.368	0					
July	4.4		.452	0					
August	4.4		.43	0					
September	4.4		.545	0					
October	18		.519	0					
November	18		.564	0					
December	18		.873	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
Total Number of Points									0

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?

No Violations.

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:
6/1/2022 2021

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	1	0.314	1	0
February	1	0.308	1	0
March	1	0.202	1	0
April	1	0.189	1	0
May	1	0.281	1	0
June	1	0.366	1	0
July	1	0.349	1	0
August	1	0.313	1	0
September	1	0.396	1	0
October	1	0.406	1	0
November	1	0.529	1	0
December	1	0.396	1	0
Months of Discharge/yr			12	
Points per each exceedance with 12 months of discharge:				10
Exceedances				0
Total Number of Points				0

0

NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

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

No Violations.

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:
6/1/2022 2021

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:

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. 008 - Class B Liquid 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
Cadmium		39	85														0	0
Copper		1500	4300														0	0
Lead		300	840														0	0
Mercury		17	57														0	0
Molybdenum	60		75													0		0
Nickel	336		420													0		0
Selenium	80		100													0		0
Zinc		2800	7500														0	0

Outfall No. 003 - Class A Liquid 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	<9.6			7.6			10.4			6				0	0
Cadmium		39	85	1.2			1.3			.95			.97				0	0
Copper		1500	4300	506			543			459			329				0	0
Lead		300	840	22.7			24.7			19.3			16.8				0	0
Mercury		17	57	.36			.25				.24		.26				0	0
Molybdenum	60		75	9			13.2			10.8			10.8			0		0
Nickel	336		420	29.9			31.5			23.8			21.1			0		0
Selenium	80		100	<8.6			6.8			9.3			<3.9			0		0
Zinc		2800	7500	1060			1150			1150			673				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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:
6/1/2022 **2021**

- No (10 points)
 - N/A - Did not exceed limits or no HQ limit applies (0 points)
 - N/A - Did not land apply biosolids until limit was met (0 points)
- 3.1.3 Number of times any of the metals exceeded the ceiling limits = 0
Exceedence Points
- 0 (0 Points)
 - 1 (10 Points)
 - > 1 (15 Points)
- 3.1.4 Were biosolids land applied which exceeded the ceiling limit?
 Yes (20 Points)
- No (0 Points)
- 3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken?
Has the source of the metals been identified?

0

4. Pathogen Control (per outfall):

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	003
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2021 - 09/30/2021
Density:	0
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Thermophilic Aerobic Digestion
Process Description:	Auto Thermophilic Aerobic

0

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.

4.2.1 Was the limit exceeded or the process criteria not met at the time of land application?

Yes (40 Points)

● No

If yes, what action was taken?

5. Vector Attraction Reduction (per outfall):

5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	003
Method Date:	09/30/2021
Option Used To Satisfy Requirement:	Injection when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

5.2 Was the limit exceeded or the process criteria not met at the time of land application?

Yes (40 Points)

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

<ul style="list-style-type: none"> ● No <p>If yes, what action was taken?</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	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"> ● >= 180 days (0 Points) ○ 150 - 179 days (10 Points) ○ 120 - 149 days (20 Points) ○ 90 - 119 days (30 Points) ○ < 90 days (40 Points) ○ N/A (0 Points) <p>6.2 If you checked N/A above, explain why.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	0
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <div style="border: 1px solid black; padding: 2px;">None.</div>	

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

Staffing and Preventative Maintenance (All Treatment Plants)

1. Plant Staffing

1.1 Was your wastewater treatment plant adequately staffed last year?

- Yes
- No

If No, please explain:

Could use more help/staff for:

1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?

- Yes
- No

If No, please explain:

2. Preventative Maintenance

2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?

- Yes (Continue with question 2)
- No (40 points)

If No, please explain, then go to question 3:

2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?

- Yes
- No (10 points)

2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?

- Yes
 - Paper file system
 - Computer system
 - Both paper and computer system
- No (10 points)

0

3. O&M Manual

3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?

- Yes
- No

4. Overall Maintenance /Repairs

4.1 Rate the overall maintenance of your wastewater plant.

- Excellent
- Very good
- Good
- Fair
- Poor

Describe your rating:

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

All team members involved with preventative maintenance and major rebuilds of equipment or replacement of equipment are diligent in the maintenance and take pride in the plant operating efficiently. The plant has a Total Electronic Asset Management System (TEAMS) that enables the plant to track all maintenance. The maintenance program that the District has show's how in how well the plant continues to perform.

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

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:

BRIAN M HELMINGER

Certification No:

28032

0

2. Certification Requirements

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

Sub Class	SubClass Description	WWTP	OIC		
		Advanced	OIT	Basic	Advanced
A1	Suspended Growth Processes	X			X
A2	Attached Growth Processes				X
A3	Recirculating Media Filters				
A4	Ponds, Lagoons and Natural		X		
A5	Anaerobic Treatment Of Liquid				
B	Solids Separation	X			X
C	Biological Solids/Sludges	X			X
P	Total Phosphorus	X			X
N	Total Nitrogen				
D	Disinfection	X			X
L	Laboratory	X			X
U	Unique Treatment Systems				
SS	Sanitary Sewage Collection	X	X	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 is required 5 years after permit reissuance.)

- 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

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

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2021

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

Compliance Maintenance Annual Report

Heart Of The Valley Metro Sewerage District

Last Updated: Reporting For:

6/1/2022

2021

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 80%;" type="text" value="Kevin Skogman (Provided by Erickson & Associates)"/></p> <p>Telephone: <input style="width: 30%;" type="text" value="(920-766-5731"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 80%;" type="text" value="kevin.skogman@hvmsd.org"/></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: 150px;" type="text" value="2021"/></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: 150px;" type="text" value="2021"/></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%;"></td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 30%; text-align: center;"><input style="width: 90%;" type="text" value="7,250,648.00"/></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: center;"><input style="width: 90%;" type="text" value="0.00"/></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: center;"><input style="width: 90%;" type="text" value="7,250,648.00"/></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: center;"><input style="width: 90%;" type="text" value="705,624.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 90%;" type="text" value="7,250,648.00"/>	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: 90%;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 90%;" type="text" value="7,250,648.00"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 90%;" type="text" value="705,624.00"/>	
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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) - \$ 232,259.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$ 7,724,013.00

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.

Equipment replaced during the year was \$203,612
Vehicles replace during the year was \$28,647

3.3 What amount should be in your Replacement Fund? \$ 7,724,012.00

Please note: If you had a CWF 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	WPDES TMDL compliance - with permit re issuance and TMDL limits HOV has selected effluent disk filters for permit compliance with low level phosphorus. The District and its consultant Donohue is in the design phase of the project and anticipates bidding the project in the last quarter of 2021. The disk filters will be installed in the existing building that used to house the tertiary filters. A Clean Water Fund loan is necessary for this project.	12500000	2022
2	Capital improvements to the HOV main interceptor sewer and its marine manholes identified and prioritized by the Interceptor action plan. Work is in progress and the final scope of the projects are not yet fully known.	22000000	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:

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COLLECTION SYSTEM PUMPAGE: Total Power Consumed

Number of Municipally Owned Pump/Lift Stations:

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	9,956	
February	12,644	
March	7,975	
April	4,028	
May	1,530	
June	1,406	
July	1,550	
August	1,579	
September	1,149	
October	1,350	
November	4,805	
December	8,718	
Total	56,690	0
Average	4,724	0

6.1.2 Comments:

The electricity consumed is from member communities meter stations that the District owns. There are also two ventilation systems located on the Districts interceptor for removing H2S.

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:

Electrical use is minimal, there is lighting, electric heat, exhaust fans and metering equipment.

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

- No
- Yes

Year:

By Whom:

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Describe and Comment:

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.

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	702,609	151.40	4,641	378.60	1,856	
February	635,217	135.21	4,698	350.17	1,814	
March	721,725	227.67	3,170	403.09	1,790	
April	688,551	202.92	3,393	390.81	1,762	
May	689,870	198.37	3,478	437.13	1,578	
June	673,341	191.73	3,512	473.19	1,423	
July	727,843	259.34	2,807	437.88	1,662	
August	720,663	260.42	2,767	492.25	1,464	
September	638,949	192.13	3,326	410.64	1,556	
October	670,736	170.49	3,934	448.23	1,496	
November	656,754	145.01	4,529	431.07	1,524	
December	662,853	167.48	3,958	459.30	1,443	
Total	8,189,111	2,302.17		5,112.36		0
Average	682,426	191.85	3,684	426.03	1,614	0

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
- Influent Pumping
- Mechanical Sludge Processing
- Nitrification

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- SCADA System
- UV Disinfection
- Variable Speed Drives
- Other:

Biostyr, bio-solids pumping of high rate clarifiers in ACTI-FLO. Peak flow headworks, peak flow pumping to ACTI-FLO. Auto Thermophilic Aerobic Digestion of bio-solids.

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?

Energy efficient motors when replacing motors. Continue replacement of fluorescent lighting with LED lighting. Replacement of ATAD and Biostyr blowers with more energy efficient blowers.

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:

2016

By Whom:

University of Wisconsin-Milwaukee Industrial Assessment Center

Describe and Comment:

Most of the recommended measures the District has implemented.

Part of the facility

Year:

By Whom:

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Describe and Comment:	
<input type="text"/>	

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:

Inspection of all land based manhole structures.

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?

2006-1

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY) 2020-10-13

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:

Antecedent Moisture Modeling for I/I analysis.

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="5"/>	% of system/year
Root removal	<input type="text" value="0"/>	% of system/year
Flow monitoring	<input type="text" value="100"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="10"/>	% of system/year
Manhole inspections	<input type="text" value="100"/>	% of system/year
Lift station O&M	<input type="text" value="0"/>	# 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="25.29"/>	Total actual amount of precipitation last year in inches
<input type="text" value="31.73"/>	Annual average precipitation (for your location)
<input type="text" value="5.54"/>	Miles of sanitary sewer
<input type="text" value="1"/>	Number of lift stations
<input type="text" value="0"/>	Number of lift station failures
<input type="text" value="0"/>	Number of sewer pipe failures
<input type="text" value="0"/>	Number of basement backup occurrences
<input type="text" value="0"/>	Number of complaints
<input type="text" value="6.293"/>	Average daily flow in MGD (if available)
<input type="text" value="8.400"/>	Peak monthly flow in MGD (if available)
<input type="text" value="23.53"/>	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

<input type="text" value="0.00"/>	Lift station failures (failures/year)
<input type="text" value="0.00"/>	Sewer pipe failures (pipe failures/sewer mile/yr)
<input type="text" value="0.00"/>	Sanitary sewer overflows (number/sewer mile/yr)
<input type="text" value="0.00"/>	Basement backups (number/sewer mile)
<input type="text" value="0.00"/>	Complaints (number/sewer mile)
<input type="text" value="1.3"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="3.7"/>	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
- No

If Yes, please describe:

I/I was still significant last year, even though the District had no partially treated waste water divert around secondary treatment and blend with fully treated effluent. There were several rainfall events that the inflow was at or just below the max million gallons day the secondary treatment could handle. I/I and the reduction of it, remains a concern for the District.

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?

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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?

The District inspects all manholes related to the interceptor for defects and I/I on a yearly bases. If defects causing I/I are noticed the District takes measures to remedy the I/I. The District has the interceptor televised for defects and possible I/I.

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

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Grading Summary

WPDES No: 0031232

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	D	1	3	3
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Ammonia	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			37	139
GRADE POINT AVERAGE (GPA) = 3.76				

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:

Date of Resolution or
Action Taken:

Resolution Number:

Date of Submittal:

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Influent Flow and Loadings: Grade = D

The District replaced all of its ultrasonic flowmeters with new laser flowmeters by early 2020. The meters were run concurrently for the remainder of 2020 and the main plant laser influent flowmeter registered about 11% more flow than the ultra sonic meter that it replaced. The District removed the old flowmeters and adopted the laser meters for billing and DMR reporting as of 1/1/2021.

As a result of the influent meter replacement, the District's calculated loadings increased when compared against its rated plant BOD capacity. The flow difference was enough to put the District over 90% of its rated capacity 8 times and over 100% of its rated BOD capacity 3 times in 2021.

The District's ability to produce permit complaint effluent while being mathematically overloaded with BOD indicates that the rated capacity of the biological process is likely under rated. The District along with its consultant are evaluating a stress test of the biological system and may be applying for an increase in the organic rating of the facility. The stress test has not been completed and the data is still being evaluated. If District were to apply for and receive a rerating, we would anticipate that near future CMAR reports would not have the points applied to this section of the CMAR and no further response would be necessary.

Effluent Quality: BOD: Grade = A

Effluent Quality: TSS: Grade = A

Effluent Quality: Ammonia: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = A

Staffing: Grade = A

Operator Certification: Grade = A

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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. = 3.76