



N64W23760 Main Street
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**PUBLIC WORKS COMMITTEE
VILLAGE OF SUSSEX
TUESDAY, JUNE 7, 2022
IMMEDIATELY FOLLOWING THE 6:00 PM FINANCE COMMITTEE SUSSEX CIVIC
CENTER- VILLAGE BOARD ROOM 2nd FLOOR
N64W23760 MAIN STREET**

Pursuant to Section 19.84, Wis. Stats., notice is hereby given of a meeting of the Sussex Public Works Committee, at which a quorum of the Village Board may attend in order to gather information about a subject which they have decision making responsibility. If a Quorum of the Village Board is present the Chairman shall note that a quorum of the Village Board is present and that the Village Board members may be making comments if the rules are suspended to allow them to do so.)

1. Roll call.
2. Consideration and possible action on minutes of the May 3, 2022 Public Works meeting.
3. Comments from Citizens
4. Consideration and possible action on bills for payment.
5. Consideration and possible action on Utility Items:
 - A. DNR Stormwater Discharge Permit Annual Report
 - B. Resolution 22-09 accepting the Compliance Maintenance Annual Report
 - C. Wastewater Treatment Facility Raw Sewage Pump #1 Repair
6. Consideration and possible action on Sidewalk and Street Items:
 - A. Pedestrian Crossing Beacon Ownership Maintenance Agreement with Waukesha County
7. Consideration and possible action on Other Public Works Items:
8. Staff report, update and issues, and possible action regarding subdivision, developments, and projects:
 - A. Engineer's Report
9. Other discussions for future agenda topics
 - A. No July meeting
10. Adjournment

Scott Adkins
Chairperson

Jeremy Smith
Village Administrator

Please note that, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact the Village Clerk at 246-5200.

**DISCLAIMER- THE FOLLOWING ARE DRAFT MINUTES FROM
THE PUBLIC WORKS COMMITTEE AND ARE
SUBJECT TO CHANGE UPON APPROVAL**

**VILLAGE OF SUSSEX
SUSSEX, WISCONSIN**

**Minutes of the Public Works Committee of
May 3, 2022**

1. Roll Call:

The meeting was called to order by Chairman Adkins at 6:14 p.m.

Members present: Trustee Scott Adkins, Trustee Lee Uecker, Trustee Benjamin Jarvis, and President Anthony LeDonne.

Members Excused: Member Keith Markano

Also present: Trustee Stacy Riedel, Assistant Village Administrator Kelsey McElroy-Anderson, Village Engineer/Public Works Director Judith Neu, Village Administrator Jeremy Smith, and members of the Public.

A quorum of the Village Board was present at the meeting.

2. Consideration and possible action on minutes:

A motion by Adkins, seconded by Jarvis to approve the April 5, 2022 meeting minutes as presented.

Motion carried 4-0

3. Comments from Citizens:

There was no one present who wished to be heard.

4. Consideration and possible action on bills for payment:

A motion by Adkins, seconded by Jarvis to recommend to the Village Board approval of bills for payment in the amount of \$488,034.67

Motion carried 4-0

5. Consideration and possible action on Utility Items:

None

6. Consideration and possible action on Sidewalk and Street Items:

None

7. Consideration and possible action on Other Public Works Items:

A. Trash and Recycling Bid Document Preparation

There was discussion about the bulk item collection and if that program could be restructured to save money while still providing curbside service. For example, would it be cheaper if they only collected items one day each month. The Committee would like the costs broken out for weekly vs. bi-weekly recycling, bulk item collection, and shared recycling revenue should be deleted. No formal action was taken.

B. Pick-Up Truck Purchases

A motion by Adkins, seconded by Uecker to recommend to the Village Board approval of the purchase of two Chevrolet trucks from Ewald Automotive Group and one plow from Truck & Auto Elegance for a total cost of \$93,354

Motion carried 4-0

8. Staff Reports, update and issues, and possible action regarding subdivision, developments, and projects:

A. Engineer's Report

Mrs. Neu summarized the Engineer's Report included in the meeting packet.

9. Other discussion for future agenda topics

None

10-11. Prides Crossing Road Condition Tour

The Committee met in Prides Crossing Subdivision to discuss the road condition and improvements that would be made

as part of the 2023 Road Program.

10. Adjournment

A motion by Adkins, seconded by Jarvis to adjourn the meeting at 7:38 p.m.

Motion carried 4-0

Respectfully submitted,

Kelsey McElroy-Anderson
Assistant Village Administrator

DRAFT

VILLAGE OF SUSSEX
PUBLIC WORKS COMMITTEE
BILLS FOR PAYMENT

6/7/2022

VENDOR	AMOUNT		%COMPLETED	NOTES
AYRES ASSOCIATES, INC.	\$ 6,500.00	SUSSEX/LISBON BOUNDARY AGREEMENT-ROW - MAY 2022	100%	
CEDAR CORPORATION	\$ 1,914.66	MELINDA WEAVER PK IMPROVEMENTS-PICKLEBALL-THRU 4/16/22	25%	
GLOBE CONTRACTORS	\$ 157,911.75	CTH VV & PLAINVIEW RD-WATER MAIN PROJECT	66%	
GREEN BAY PIPE & TV	\$ 90,772.30	SANITARY SEWER CLEAN & TV - 2023 ROAD PROGRAM	64.8%	
PSI	\$ 1,281.00	CTH VV & PLAINVIEW RD-WATER MAIN PROJECT	TESTING 100%	
R A SMITH	\$ 853.57	VISTA RUN PHASE 1 - PROF. SERV. APRIL 2022	ONGOING	BILL TO DEVELOPER: NEUMANN
R A SMITH	\$ 742.23	WOODLAND TRAILS PHASE 2 - PROF. SERV. APRIL 2022	ONGOING	BILL TO DEVELOPER: NEUMANN
R A SMITH	\$ 432.61	VISTA RUN PHASE 2 - PROF. SERV. APRIL 2022	ONGOING	BILL TO DEVELOPER: NEUMANN
TOTAL	\$ 253,908.12			



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MEMORANDUM

To: Public Works Committee
From: Judith A. Neu, Village Engineer
Date: June 1, 2022
Re: DNR Stormwater Discharge Permit Annual Report

The Village's Annual Report to the DNR for our Municipal Storm Water Discharge Permit has been completed and is attached for your review. Here are some of the highlights.

- Public Education and Outreach goals are met primarily through the Waukesha County Storm Water Education program. Information is also provided in the Courier, on the Village Website, and through fliers available at the Civic Center.
- Public Involvement and Participation goals are part of the Village's political culture. Residents and business owners are encouraged to be part of the planning of public projects and are kept informed about public and private projects via meetings and the website.
- Illicit Discharge Detection and Elimination testing is done annually by Village Staff by field screening and testing of dry weather discharges at 6 priority storm outfalls and 6-7 Major Outfalls so that each is visited every 5 years.
- Construction Site Pollutant Control is handled through the Village's Stormwater Management Code and the Erosion Control Permitting process. A couple of minor erosion control issues were found in 2021. They were quickly corrected. Inspections are done by Building Inspectors on building sites and Engineering Division or consultants in subdivisions or on road projects.
- Post-Construction Storm Water Management is handled through the Village's Stormwater Management Code and Stormwater Management Plans. Developers are required to provide stormwater quality and quantity controls, and infiltration. Long term maintenance requirements are included in Developers Agreements or Stormwater Maintenance Agreements. An annual inspection program for Village owned ponds has been implemented. A prioritized list of projects and maintenance has been developed as part of the Capital Improvement Plan.
- Pollution Prevention tasks constitute a major portion of Public Works staff time each year. They consist of catch basin cleaning, street sweeping, leaf and brush collection, outfall cleaning, roadside ditch cleaning and maintenance, and storm water facilities maintenance. Pre-wetting of salt during snow operations continues to allow us to minimize salt use, and brine application allows us to avoid salting operations on several occasions each year. Staff collected 92 tons of material from street sweeping/cleaning and 6 tons of material from catch basin sump cleaning during 2021.
- The Village has surpassed the required 20% reduction in Total Suspended Solids with a 26.19% reduction. Further reductions are possible by continuing to implement the recommendations and projects in the 2011 Stormwater Management Master plan. Update of this Master Plan is a goal in the current Strategic Plan which will be considered as part of a future budget process.
- Spring Creek and portions of Sussex Creek are on the federal list of impaired water bodies due to Total Phosphorous and dissolved oxygen. High levels of Phosphorous can occur naturally from decaying vegetation in wetlands for example. Steps are being taken at the WWTP and State-wide to reduce Phosphorous levels.
- Staff continues to make program improvements on staff training and awareness, pond inspection frequencies, outfall cleaning, annual reports on private storm facilities, and to the street sweeping and catch basin cleaning operations.

- The DNR is working on a Total Maximum Daily Load (TMDL) Study on the Illinois Fox River. The streams within the Village are primarily tributary to the Illinois Fox River. Additional controls will be necessary in the coming years, once implemented.
- As a part of the Infrastructure & Facilities section of the Strategic Plan: 2021-2026, the Board identified the following goal: “Update the Stormwater Management Plan, and incorporate the cost of the plan into the Depreciation Fund so the Village is adequately saving for these expenses.” Staff feels that we should hold off on updating the plan until DNR gets closer to the completion of the TMDL Study. We would be looking for grant opportunities to help cover those costs of the plan update. At that point, the Village can hire a consultant to update our Stormwater Management Plan that is tailored to meet TMDL allocations and, knowing anticipated cost of that effort, work towards incorporating costs in the depreciation fund.

STATE OF WISCONSIN

VILLAGE OF SUSSEX

COUNTY OF WAUKESHA

RESOLUTION No. 22-09

A Resolution to Accept the Compliance Maintenance Annual Report

WHEREAS: The Department of Natural Resources requires a Compliance Maintenance Annual Report for the Sussex Regional Wastewater Treatment Facility; and

WHEREAS: The Assistant Director of Public Works has prepared said report; and

WHEREAS: The Public Works Committee and the Village Board have reviewed and discussed said report.

NOW THEREFORE, BE IT RESOLVED by the Village Board of the Village of Sussex, Waukesha County, Wisconsin, that:

SECTION 1: The Village Board has reviewed the Compliance Maintenance Annual Report which is attached to this resolution.

SECTION 2: The Village Clerk and Assistant Director of Public Works are hereby authorized and directed to forward a copy of this resolution to the Department of Natural Resources.

Adopted this _____ day of _____, 2022

VILLAGE OF SUSSEX

Anthony LeDonne
Village President

ATTEST

Jennifer Moore
Village Clerk



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MEMORANDUM

To: Public Works Committee
From: Dennis Wolf, Assistant Public Works Director Operations
Date: June 1, 2022
Re: Compliance Maintenance Annual Report

Each year, staff prepares the Compliance Maintenance Annual Report for the Sussex Regional Wastewater Treatment Facility, as required by the Department of Natural Resources. This report must be reviewed and accepted by the Village Board by a Resolution. The facility received an “A” rating for 2021. A few highlights from the report include:

- All biosolids field application rates, metal quality limits, and field soil tests, met required DNR criteria.
- Biosolids Storage – Currently, the wastewater treatment plant has about 150 days of storage. Our contractor has off-site storage that we could utilize in case of a wet spring, giving us greater than 180 days of sludge storage. Our contract hauler land applies between 1 -1.5 million gallons of biosolids in April, to give us enough storage until the end of July when fields open again for land application.
- There were seven exceedances in effluent parameters for chlorides in 2021, compared to zero chloride exceedance in 2020. Our DNR WPDES Permit contains a list of chloride source reduction measures that staff is working on to lessen chloride discharges to the wastewater treatment plant from our users.
- In the financial future planning section, there is a CIP listed to take place in 2025 for equipment replacement and upgrades. Staff is currently working on a plan for those replacements and upgrades.

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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	2.2532	x	249	x	8.34	=	4,674
February	2.2362	x	222	x	8.34	=	4,141
March	2.7239	x	175	x	8.34	=	3,970
April	2.5419	x	215	x	8.34	=	4,558
May	2.4977	x	222	x	8.34	=	4,627
June	2.2074	x	275	x	8.34	=	5,070
July	2.3283	x	276	x	8.34	=	5,355
August	2.3687	x	189	x	8.34	=	3,731
September	2.1403	x	251	x	8.34	=	4,476
October	2.0718	x	231	x	8.34	=	3,988
November	1.8744	x	261	x	8.34	=	4,084
December	1.9082	x	263	x	8.34	=	4,191

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	5.1	x	90	=	4.59
		x	100	=	5.1
Design BOD, lbs/day	6790	x	90	=	6111
		x	100	=	6790

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	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		0	0	0	0
Points		0	0	0	0
Total Number of Points					0

0

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 2021

3. Flow Meter

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

No

If No, please explain:

4. Sewer Use Ordinance

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

Yes

No

If No, please explain:

4.2 Was it necessary to enforce the ordinance?

Yes

No

If Yes, please explain:

5. Septage Receiving

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

Septic Tanks

Holding Tanks

Grease Traps

Yes

Yes

Yes

No

No

No

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

Septic Tanks

Yes gallons

No

Holding Tanks

Yes gallons

No

Grease Traps

Yes gallons

No

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

6. Pretreatment

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

Yes

No

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

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

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **2021**

<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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	10	10	0	1	0	0
February	10	10	1	1	0	0
March	10	10	2	1	0	0
April	10	10	2	1	0	0
May	5	5	1	1	0	0
June	5	5	0	1	0	0
July	5	5	0	1	0	0
August	5	5	0	1	0	0
September	5	5	0	1	0	0
October	5	5	0	1	0	0
November	10	10	0	1	0	0
December	10	10	0	1	0	0

* Equals limit if limit is ≤ 10

Months of discharge/yr	12		
Points per each exceedance with 12 months of discharge		7	3
Exceedances		0	0
Points		0	0
Total number of points			0

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

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

2. Flow Meter Calibration

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

- Yes

Enter last calibration date (MM/DD/YYYY)

04/13/2021

- 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

0

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:

5/24/2022

2021

If Yes, please explain:

Chloride variance limit was exceeded seven times, during the months of January, February, March, June, September, October, November and December. In our WPDES permit there is a list of Source Reduction Measures that we are working on to reduce the chloride sources.

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

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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	10	10	2	1	0	0
February	10	10	1	1	0	0
March	10	10	2	1	0	0
April	10	10	2	1	0	0
May	10	10	2	1	0	0
June	10	10	0	1	0	0
July	10	10	0	1	0	0
August	10	10	1	1	0	0
September	10	10	0	1	0	0
October	10	10	0	1	0	0
November	10	10	0	1	0	0
December	10	10	2	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?

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

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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	5		0	0					
February	5		.45	0					
March	5		.378	0					
April	3.2		0	0					
May	1.9		0	0					
June	1.9		0	0					
July	1.9		0	0					
August	1.9		0	0					
September	1.9		0	0					
October	3.8		0	0					
November	5		.029	0					
December	5		0	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?

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

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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	.6	0.213	1	0
February	.6	0.068	1	0
March	.6	0.092	1	0
April	.6	0.062	1	0
May	.6	0.074	1	0
June	.6	0.057	1	0
July	.6	0.084	1	0
August	.6	0.052	1	0
September	.6	0.029	1	0
October	.225	0.048	1	0
November	.225	0.036	1	0
December	.225	0.056	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?

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

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **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:

2. Land Application Site

2.1 Last Year's Approved and Active Land Application Sites

2.1.1 How many acres did you have?

1056.90 acres

2.1.2 How many acres did you use?

239 acres

2.2 If you did not have enough acres for your land application needs, what action was taken?

2.3 Did you overapply nitrogen on any of your approved land application sites you used last year?

Yes (30 points)

No

2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?

Yes

No (10 points)

N/A

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. 002 - 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	<13.1			<24.7			<20.5			<26.7				0	0
Cadmium		39	85	<6.6			<1.2			<1			<1.3				0	0
Copper		1500	4300	696			400			493			614				0	0
Lead		300	840	10.2			<24.7			<20.5			<26.7				0	0
Mercury		17	57	<.133			<.101			<.0523			<.017				0	0
Molybdenum	60		75	9.62			11.1			10.8			12.4			0		0
Nickel	336		420	11.2			12.6			13.1			15.6			0		0
Selenium	80		100	<52.6			<49.3			<41.1			<53.3			0		0
Zinc		2800	7500	386			353			490			620				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)

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **2021**

- 1-2 (10 Points)
 - > 2 (15 Points)
- 3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)
- Yes
 - No (10 points)
 - N/A - Did not exceed limits or no HQ limit applies (0 points)
 - N/A - Did not land apply biosolids until limit was met (0 points)
- 3.1.3 Number of times any of the metals exceeded the ceiling limits = 0
- Exceedence Points
- 0 (0 Points)
 - 1 (10 Points)
 - > 1 (15 Points)
- 3.1.4 Were biosolids land applied which exceeded the ceiling limit?
- Yes (20 Points)
 - No (0 Points)
- 3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

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:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2021 - 12/31/2021
Density:	670,400
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	

Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2021 - 03/31/2021
Density:	11,091
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	

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Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	04/01/2021 - 06/30/2021
Density:	670,400
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	

Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2021 - 09/30/2021
Density:	169,966
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	

Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	10/01/2021 - 12/31/2021
Density:	3,886,127
Sample Concentration Amount:	MPN/G TS
Requirement Met:	No
Land Applied:	Yes
Process:	
Process Description:	

Outfall Number:	002
Biosolids Class:	B
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	10/01/2021 - 12/31/2021
Density:	10,384
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	
Process Description:	Resampled due to pathogen control/ coliform density above 2,000,000 MPN/g TS.

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?

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Yes (40 Points)

No

If yes, what action was taken?

0

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:	002
Method Date:	12/31/2021
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	002
Method Date:	03/31/2021
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	002
Method Date:	06/30/2021
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	002
Method Date:	09/30/2021
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

Outfall Number:	002
Method Date:	12/31/2021
Option Used To Satisfy Requirement:	Incorporation when land apply
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	
Results (if applicable):	

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<p>5.2 Was the limit exceeded or the process criteria not met at the time of land application?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes (40 Points) <input checked="" type="radio"/> 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"> <input checked="" type="radio"/> >= 180 days (0 Points) <input type="radio"/> 150 - 179 days (10 Points) <input type="radio"/> 120 - 149 days (20 Points) <input type="radio"/> 90 - 119 days (30 Points) <input type="radio"/> < 90 days (40 Points) <input type="radio"/> 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: 5px;"> <p>Our contractor hauled 7.9 million gallons of sludge in 2021. They empty both tanks by early December, and then haul 1 - 1.5 million gallons in April. We typically are close to full again at the end of July, when wheat fields are become available.</p> </div>	

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

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Staffing and Preventative Maintenance (All Treatment Plants)

<p>1. Plant Staffing</p> <p>1.1 Was your wastewater treatment plant adequately staffed last year?</p> <ul style="list-style-type: none"><input type="radio"/> Yes<input checked="" type="radio"/> No <p>If No, please explain:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Due to staff turnover, we were either training a new operator, or down one operator for almost half of the year.</div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Yes<input type="radio"/> No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p>2. Preventative Maintenance</p> <p>2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Yes (Continue with question 2) <input type="checkbox"/><input type="checkbox"/><input type="radio"/> No (40 points) <input type="checkbox"/><input type="checkbox"/> <p>If No, please explain, then go to question 3:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Yes<input type="radio"/> No (10 points) <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"><input checked="" type="radio"/> Yes<ul style="list-style-type: none"><input type="radio"/> Paper file system<input type="radio"/> Computer system<input checked="" type="radio"/> Both paper and computer system<input type="radio"/> No (10 points)	0
<p>3. O&M Manual</p> <p>3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Yes<input type="radio"/> No	
<p>4. Overall Maintenance /Repairs</p> <p>4.1 Rate the overall maintenance of your wastewater plant.</p> <ul style="list-style-type: none"><input type="radio"/> Excellent<input checked="" type="radio"/> Very good<input type="radio"/> Good<input type="radio"/> Fair<input type="radio"/> Poor <p>Describe your rating:</p>	

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Preventative maintenance is performed at manufacture recommended intervals.

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

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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:

DENNIS T WOLF

Certification No:

12156

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	NA	X	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?

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

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Financial Management

1. Provider of Financial Information Name: <input type="text" value="Nancy Whalen"/> Telephone: <input type="text" value="262-246-5225"/> (XXX) XXX-XXXX E-Mail Address (optional): <input type="text" value="nwhalen@villagesussex.org"/>		
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) <input type="checkbox"/> <input type="checkbox"/> ○ No (40 points) If No, please explain: <input type="text"/> 2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input type="text" value="2021"/> ● 0-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <input type="checkbox"/> ○ N/A (private facility) 2.3 Did you have a special account (e.g., CFWP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system? ● Yes (0 points) ○ No (40 points)		0
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: <input type="text" value="2021"/> ● 1-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <input type="checkbox"/> ○ N/A If N/A, please explain: <input type="text"/>		
3.2 Equipment Replacement Fund Activity		
3.2.1 Ending Balance Reported on Last Year's CMAR	\$ <input type="text" value="850,958.78"/>	
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	\$ <input type="text" value="0.00"/>	
3.2.3 Adjusted January 1st Beginning Balance	\$ <input type="text" value="850,958.78"/>	
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$ <input type="text" value="77,900.00"/>	
	+	

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

- \$ 25,986.00

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

\$ 902,872.78

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.

Valves for the grit room, RAS pump #1 VFD, valves in the sludge pump room.

3.3 What amount should be in your Replacement Fund? \$ 875,759.21

0

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

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

- Yes
- No

If No, please explain.

4. Future Planning

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

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

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	CIP - Valve replacement, aeration equipment upgrades, gravity thickener rebuild, sprinkler system upgrades, parking lot re-pavement.	1125000	2025
2	Roofs for sludge building and garage/lunch room.	248,325	2022

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:

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	5,438	7
February	5,952	6
March	5,623	7
April	5,908	7
May	4,739	7
June	2,956	7
July	2,717	8
August	2,436	34
September	3,287	8
October	4,092	6
November	4,850	8
December	6,353	2
Total	54,351	107
Average	4,529	9

6.1.2 Comments:

All natural gas use is from the Johannsen Farms lift station. In August, there was a power failure resulting in the natural gas generator to run for an extended period, resulting in higher gas usage.

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:

Electric Heaters

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?

Nothing at this time.

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	140,700	69.85	2,014	144.89	971	4,106
February	104,700	62.61	1,672	115.95	903	4,806
March	88,500	84.44	1,048	123.07	719	3,297
April	133,200	76.26	1,747	136.74	974	1,851
May	109,200	77.43	1,410	143.44	761	1,302
June	194,406	66.22	2,936	152.10	1,278	339
July	171,600	72.18	2,377	166.01	1,034	221
August	121,200	73.43	1,651	115.66	1,048	149
September	141,600	64.21	2,205	134.28	1,055	180
October	152,700	64.23	2,377	123.63	1,235	932
November	115,200	56.23	2,049	122.52	940	2,848
December	125,500	59.15	2,122	129.92	966	2,416
Total	1,598,506	826.24		1,608.21		22,447
Average	133,209	68.85	1,967	134.02	990	1,871

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
- SCADA System

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- UV Disinfection
- Variable Speed Drives
- Other:

Phosphorus removal chemical pumping
Secondary filtration pumping
Sludge storage tank mixing/truck filling

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?

Nothing at this time.

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:

By Whom:

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

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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:

1. Clean 25% of sewer collection system.
2. Identify areas of inflow and infiltration, and have them repaired.
3. Updated GIS mapping and data base for new construction.
4. Complete CMAR, and update CMOM

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) 10/08/2019

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

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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)] **0**
 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="25"/>	% of system/year
Root removal	<input type="text" value="0"/>	% of system/year
Flow monitoring	<input type="text" value="10"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="1"/>	% of system/year
Manhole inspections	<input type="text" value="30"/>	% of system/year
Lift station O&M	<input type="text" value="4"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="1"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="1"/>	% of sewer lines rehabbed
Private sewer inspections		

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

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

2021 Road Program
 Rehabilitated 41 manholes.
 Abandoned 2 private sewer laterals.
 Abandoned 1 manhole and 270 feet of pipe.
 Relined 1,604 feet of various sized and type of pipe.

3. Performance Indicators

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

<input type="text" value="27.17"/>	Total actual amount of precipitation last year in inches
<input type="text" value="34.89"/>	Annual average precipitation (for your location)
<input type="text" value="45"/>	Miles of sanitary sewer
<input type="text" value="2"/>	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="1.633"/>	Average daily flow in MGD (if available)
<input type="text" value="2.29"/>	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="0.00"/>	Basement backups (number/sewer mile)
<input type="text" value="0.00"/>	Complaints (number/sewer mile)
<input type="text" value="1.4"/>	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

No

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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:

No significant changes were noticed.

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

During road reconstruction projects, we have the corresponding sewer lines televised to determine the condition of the pipe. We have relayed, or relined old clay sewer pipe in the system, as well as replaced sewer laterals in the right of way. We have also repaired manholes, and installed solid manhole covers, and grouted leaks in both pipes and manholes. We also televised the concrete portion of the NE Interceptor, finding minor leaks in four spots. These areas will be addressed in the next few years.

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

Compliance Maintenance Annual Report

Sussex Wastewater Treatment Facility

Last Updated: Reporting For:
5/24/2022 **2021**

Grading Summary

WPDES No: 0020559

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
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	148
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)

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Last Updated: Reporting For:
5/24/2022 2021

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 = A

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

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



N64W23760 Main Street
Sussex, Wisconsin 53089
Phone (262) 246-5200
FAX (262) 246-5222
Email: info@villagesussex.org
Website: www.villagesussex.org

MEMORANDUM

To: Public Works Committee
From: Dennis Wolf, Assistant Public Works Director Operations
Date: 6/1/2022
Re: WWTF Raw Sewage Pump #1

Raw sewage pump #1 has a severe vibration while operating, probably due to severe wear on the impeller and bearings. Our pump consultant recommended that we not operate it unless there is an emergency, and to remove it and send in for service as soon as possible. Staff would plan on removing the pump from service and sending it to the factory for inspection, upon approval from the Public Works Committee, and Sussex Village Board. Fairbanks Nijhuis will disassemble the pump and inspect all components. After inspection, a recommendation on repairs and costs will be sent to our consultant and staff.

Pump #1 was last taken out of service and repaired in 2014 for a cost of near \$60,000. Pump #3 was just repaired over the winter at a cost of around \$95,000. A new pump costs over \$150,000.

RSP repair funds are typically budgeted every other year, in odd years. We have 3 pumps, and they are typically on a 6-year repair cycle. Funds were not budgeted for pump repairs in the 2022 budget however, the funds come out of the wastewater treatment plant's equipment replacement fund, even when budgeted. There is almost \$983,000 in this account.

Staff is looking for approval to move ahead with the emergency repairs.



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MEMORANDUM

To: Public Works Committee
From: Judith A. Neu, Village Engineer
Date: June 1, 2022
Re: Flashing Pedestrian Signs Agreement – CTH VV

As part of the permitting process for installing the Flashing Pedestrian Signs along Main Street / CTH VV at the Public Safety Building, Waukesha County DPW requires that we enter into an agreement. The County wants to make it clear that while the equipment / signs are located in their right of way, the signs are to be owned and maintained by the Village. Staff recommends that the Committee and Board approve the agreement.

**PEDESTRIAN CROSSING BEACON OWNERSHIP AND
MAINTAINANCE AGREEMENT**
between the
WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS
and the
THE VILLAGE OF SUSSEX

This agreement, made and entered into by and between the Waukesha County Department of Public Works, hereinafter called the **DEPARTMENT**, and the Village of Sussex, hereinafter called the **VILLAGE**, provides for the purchase, installation, maintenance, and ownership of actuated solar powered rectangular rapid flashing beacons for the pedestrian crossing located in the Village of Sussex at the intersection of CTH VV (Main Street) and the Bugline Trail.

WHEREAS the VILLAGE and the DEPARTMENT agree that enhanced safety measures at the pedestrian crossing of CTH VV (Main Street) and the Bugline Trail would benefit the VILLAGE, and

WHEREAS, the DEPARTMENT requires the VILLAGE to maintain, repair, and own the pedestrian crossing beacons associated equipment including push buttons, solar panels, batteries, bulbs and wiring, and

WHEREAS, the parties agree to enter into a mutually beneficial agreement to install, maintain, repair, and replace the pedestrian crossing beacons, and

THEREFORE, the parties hereto do mutually agree to the responsibilities related to the purchase, installation, maintenance, and ownership of said actuated flashing pedestrian crosswalk beacons and to the funding of said beacons as described below:

RESPONSIBILITIES:

The **DEPARTMENT** shall:

1. Install the actuated solar powered rectangular rapid flashing beacons at no cost to the Village.

The **VILLAGE** shall:

1. Purchase and accept ownership and all future maintenance responsibilities for the actuated solar powered rectangular rapid flashing beacons upon completion of installation.
2. Enact a Resolution by the VILLAGE in agreement with these provisions and provide a copy to the DEPARTMENT. The DEPARTMENT will provide the VILLAGE with written notice of the date when installation has been completed.
3. Designate a representative to act for the VILLAGE to administer this agreement.
4. Place stickers denoting the ownership of the beacon equipment and the permanent contact information for the office of the owner of said beacon equipment.

OTHER TERMS

1. Assignment: The parties agree that there shall be no assignment or transfer of this Agreement nor of any interests, rights or responsibilities contained herein without a written amendment signed by both parties.
2. Amendment: The parties, by mutual consent, may amend this Agreement in writing at any time.
3. Severability: If any provision of this Agreement is held invalid under any applicable law, such invalidity shall not affect any other provision of this Agreement that can be given effect without the invalid provision and, to this end, the provisions hereof are severable.

APPROVAL

THIS AGREEMENT will be effective on the date of the DEPARTMENT'S signature, which is the Effective Date of this agreement.

VILLAGE:
Village of Sussex

DEPARTMENT:
Waukesha County

By: _____

By: _____

Title: _____

Allison Bussler
Title: Director of Public Works

Date: _____

Date: _____

Address for VILLAGE:

Address for DEPARTMENT:

Village of Sussex
Village Hall
N64 W23760 Main St.
Sussex, WI 53089

Waukesha County Department of
Public Works
515 W. Moreland Blvd. Room AC 210
Waukesha, WI 53188



Remove existing pole with W11-1 & W16-7P signs. Install solar-powered RRFB assembly having pedestrian push button, overhead wireless activation, and two back-to-back W11-15 (36"x36") & W16-7P (24"x12") trail crossing sign assemblies on new signal pole.

Keep existing Stop and W5-3 sign assemblies on each side of the crossing

Remove existing pole with W11-1 & W16-7P signs. Install solar-powered RRFB assembly having pedestrian push button, overhead wireless activation, and two back-to-back W11-15 (36"x36") & W16-7P (24"x12") trail crossing sign assemblies on new signal pole.

Legend & Notes

	Existing	Work Order Item
Sign mounted on steel post:		



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MEMORANDUM

To: Public Works Committee
From: Judith A. Neu, Village Engineer
Date: June 1, 2022
Re: Engineering Monthly Report – May 2022

CTH VV and Plainview Water Main:

- Concrete, asphalt and restoration work is done.
- Valve work along Waukesha Avenue is scheduled for mid-summer due to long lead times for the valves.

Miscellaneous:

- The CMAQ grant application for part of the Corky Curtis Trail for funding in 2023-2025 through the BIL was submitted on June 3rd.

Developments:

- Vista Run: Grading has started in Phase 2. Utilities are expected to start in July. Sidewalk in Phase 1 is mostly done.
- Redford Hills: Plans have been reviewed and revised plans have been received. The developer would like to start construction very soon.
- High School Water Main Connection: Construction is scheduled for mid-June.
- Highlands Court (Brown Farm): Plans have been reviewed and revisions received.

2023 Road Program:

- Videotaping of the sanitary and storm systems is done. We found three locations where private utility pipes were drilled through storm sewers, likely years ago. One was a gas service and two were AT&T lines. We Energies has repaired their location. AT&T is working on scheduling their repairs. These repairs are at the expense of the utility companies.
- Pavement and curb inspections are underway.