

Agenda Item # 2a
2023 Annual Clearwater Sustainability Program Report to HOVMSD

Background

Member communities of the HOVMSD (Kaukauna, Kimberly, Little Chute, Combined Locks, and the Darboy Sanitary District) are required to file an annual Clearwater Sustainability Program report to the HOVMSD.

The City of Kaukauna's annual report is attached.

The intent of the annual report is to update the HOVMSD on the community's efforts toward maintaining a sustainable level of inflow and infiltration.

The governing body of each HOVMSD member community must review each year's annual report. A resolution stating that the governing body has reviewed and accepted the annual report is on the Common Council agenda tomorrow night.

Recommended Action

Accept and place on file the City of Kaukauna 2023 Annual Clearwater Sustainability Program Report to HOVMSD, recommend approval of the 2023 resolution to Common Council

Clearwater Sustainability Program

2023 Annual Report to HOVMSD

October 14, 2024



Submitted By:
Jeffrey Bodoh
City of Kaukauna Engineering

Clearwater Sustainability Program 2023 Annual Report

CONTENTS

- 1) CMAR
- 2) WDNR Response
- 3) Construction and Non-Construction I&I Reduction Projects
- 4) Local Ordinance Changes
- 5) CMOM Updates and Changes

Section 1: 2023 CMAR

The City of Kaukauna submits a Compliance Maintenance Annual Report to Wisconsin DNR. Per Wisconsin DNR: Chapter NR 208, Wis. Adm. Code is more commonly known as the Compliance Maintenance Annual Report (CMAR) rule for publicly and privately owned domestic wastewater treatment works. The CMAR is a self-evaluation tool that promotes the owner's awareness and responsibility for wastewater collection and treatment needs, measures the performance of a wastewater treatment works during a calendar year, and assesses its level of compliance with permit requirements.

This report provides the following information to help:

- Describes the management and physical condition of the wastewater treatment works during the previous calendar year.
- Assesses system performance and wastewater maintenance activities.
- Evaluates compliance with WPDES permit requirements
- Provides an objective analysis to determine whether a more detailed evaluation of the wastewater facility is needed.
- Identifies proposed actions necessary to maintain regulatory compliance.

City of Kaukauna has achieved an overall grade of "A" in 2023, which requires no formal corrective actions. A Resolution acknowledging that the report is complete and reviewed is required and was adopted by the Common Council. Recommended collection system response and an overall comment/action items from the Council acknowledging the need to continue improvements to City sanitary sewer collection system was approved. A copy of the 2023 CMAR is attached to this section.

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 300px;" type="text" value="William Van Rossum"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="(920) 766-6312"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="wvanrossum@kaukauna.gov"/></p>																	
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p>● Yes (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ No (40 points)</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?</p> <p>Year: <input style="width: 100px;" type="text" value="2023"/></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., CFWP 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?</p> <p>Year: <input style="width: 100px;" type="text" value="2023"/></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: right;"><input style="width: 150px;" type="text" value="4,030,873.00"/></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: right;"><input style="width: 150px;" type="text" value="2,970,651.00"/></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: right;"><input style="width: 150px;" type="text" value="7,001,524.00"/></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: right;"><input style="width: 150px;" type="text" value="4,469,729.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 150px;" type="text" value="4,030,873.00"/>	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: 150px;" type="text" value="2,970,651.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="7,001,524.00"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 150px;" type="text" value="4,469,729.00"/>	
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Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

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

\$ 3,594,848.00

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

\$ 7,876,405.00

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.

2023 Sanitary Sewer Budget, shows 2023 expenses. Detailed ledger is available upon request.

3.3 What amount should be in your Replacement Fund?

\$ 1.00

0

Please note: If you had a CFWP 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	Desnoyer Street Area Utility Relay	\$1,250,000	2025
2	Kenneth Ave/3rd Street Area	\$600,000	2024
3	Manhole Lining/Repair Project	\$50,000	2024
4	Residential Streets Phase 2 of 2	\$800,000	2026
5	Lift Station Force Main Upgrades	\$200,000	2024
6	River Street Sanitary Sewer and Easement CIPP	\$150,000	2024
7	Thilmany Interceptor	\$90,000	2024
8	CE Lift Station Interceptor to KHS	\$400,000	2025
9	Residential Streets Phase 1 of 2	\$700,000	2025

5. Financial Management General Comments

None

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:

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	12,435	
February	13,619	
March	12,600	
April	15,311	
May	13,370	
June	11,285	
July	9,738	
August	9,928	
September	11,246	
October	10,216	
November	11,785	
December	10,921	
Total	142,454	0
Average	11,871	0

6.1.2 Comments:

The City's annual sanitary sewer flows and the annual electric usage both went up roughly 2%.

6.2 Energy Related Processes and Equipment

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

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

6.2.2 Comments:

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

No

Yes

Year:

By Whom:

Describe and Comment:

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

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?

During systematic upgrades to lift stations, energy efficiency will be a determining factor for equipment.

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

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 2023

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:

Specific 2023 Numerical Goals and Results are found in Appendix IV of the city CMOM. A summary is attached.

Overall System goals:

- 1) No sanitary sewer overflows
- 2) No basement backups due to lack of mainline maintenance
- 3) No infrastructure failure (street or sewer collapse) due to lack of maintenance
- 4) Maintain capacity for community and industrial growth within the City and HOVMSD interceptor
- 5) Review and update City Sewer Use / ordinance and maintain compliance with WIDNR and HOVMSD ordinances
- 6) Assist HOVMSD in implementation of a FOG control program.
- 7) Continue to identify and eliminate illegal sump discharges, cross connections, and other illicit connections
- 8) Design and implement an on going sewer condition evaluation program
- 9) Maintain an adequate budget to perform necessary maintenance of sewer system
- 10) Maintain and update records to ensure accurate and efficient data management

Did you accomplish them?

- Yes
- No

If No, explain:

Experienced 4 basement backups in 2023 - related to system maintenance. We believe the change in maintenance schedule for this area will prevent future backups. On May 16, 2023 the City had a sanitary sewer main failure. The entire sanitary sewer line was replaced. The City is replacing sanitary sewer on an annual basis.

- 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?

Municipal Ordinance-Sewer Use Ordinance

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

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

Does your sewer use ordinance or other legally binding document address the following:

- Private property inflow and infiltration
- New sewer and building sewer design, construction, installation, testing and inspection
- Rehabilitated sewer and lift station installation, testing and inspection
- Sewage flows satellite system and large private users are monitored and controlled, as necessary
- Fat, oil and grease control
- Enforcement procedures for sewer use non-compliance
- Operation and Maintenance [NR 210.23 (4) (d)]

Does your operation and maintenance program and equipment include the following:

- Equipment and replacement part inventories
- Up-to-date sewer system map
- A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation
- A description of routine operation and maintenance activities (see question 2 below)
- Capacity assessment program
- Basement back assessment and correction
- Regular O&M training

- Design and Performance Provisions [NR 210.23 (4) (e)]

What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?

- State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
- Construction, Inspection, and Testing
- Others:

- Overflow Emergency Response Plan [NR 210.23 (4) (f)]

Does your emergency response capability include:

- Responsible personnel communication procedures
- Response order, timing and clean-up
- Public notification protocols
- Training
- Emergency operation protocols and implementation procedures

- Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]

Special Studies Last Year (check only those that apply):

- Infiltration/Inflow (I/I) Analysis
- Sewer System Evaluation Survey (SSES)
- Sewer Evaluation and Capacity Management Plan (SECAP)
- Lift Station Evaluation Report
- Others:

2. Operation and Maintenance

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

Cleaning	<input type="text" value="17.9"/>	% of system/year
Root removal	<input type="text" value=".2"/>	% of system/year
Flow monitoring	<input type="text" value="100"/>	% of system/year

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="4.9"/>	% of system/year
Manhole inspections	<input type="text" value="25"/>	% of system/year
Lift station O&M	<input type="text" value="7"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="1.0"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="1.0"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="1.75"/>	% of system/year
Private sewer I/I removal	<input type="text" value="1.61"/>	% of private services
River or water crossings	<input type="text" value="100"/>	% of pipe crossings evaluated or maintained
Please include additional comments about your sanitary sewer collection system below:		
<input type="text"/>		

3. Performance Indicators

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

<input type="text" value="27.7"/>	Total actual amount of precipitation last year in inches
<input type="text" value="31.08"/>	Annual average precipitation (for your location)
<input type="text" value="86"/>	Miles of sanitary sewer
<input type="text" value="7"/>	Number of lift stations
<input type="text" value="0"/>	Number of lift station failures
<input type="text" value="1"/>	Number of sewer pipe failures
<input type="text" value="4"/>	Number of basement backup occurrences
<input type="text" value="27"/>	Number of complaints
<input type="text" value="3.07"/>	Average daily flow in MGD (if available)
<input type="text" value="4.77"/>	Peak monthly flow in MGD (if available)
<input type="text" value="19.6"/>	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="0.01"/>	Sewer pipe failures (pipe failures/sewer mile/yr)
<input type="text" value="0.01"/>	Sanitary sewer overflows (number/sewer mile/yr)
<input type="text" value="0.05"/>	Basement backups (number/sewer mile)
<input type="text" value="0.31"/>	Complaints (number/sewer mile)
<input type="text" value="1.6"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="6.4"/>	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **				
	Date	Location	Cause	Estimated Volume
0	5/16/2023 12:16:00 PM - 5/16/2023 6:00:00 PM	Plank Road, Kaukauna, WI 54130	Broken Sewer, Broken Sewer	8,600

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

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

The 18" concrete sanitary sewer main was replaced with 18" PVC pipe.

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 could be detected at metering station, specifically after rain events and changes in river level.

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:

Approximately 4,700 feet of deteriorated clay, concrete, and truss main and approximately 113 service laterals were replaced or rehabilitated as part of the City's rehabilitation projects in 2023. In addition, some temporary manhole improvements were made in the river to reduce inflow

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

The City continues to replace and rehabilitate the sanitary sewer and manholes throughout the City. The City has an annual sanitary sewer replacement program in place.

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

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

Grading Summary

WPDES No: 0047341

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

Notes:

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

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 **2023**

Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Kaukauna

Date of Resolution or
Action Taken:

2024-06-04

Resolution Number:

2024-5435

Date of Submittal:

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

Financial Management: Grade = A

Collection Systems: Grade = A

(Regardless of grade, response required for Collection Systems if SSOs were reported)

On May 16, 2023, the City experienced a sewer failure. The 18" concrete sewer that failed was replaced with a 18" PVC sewer. The city has an annual sanitary sewer replacement program in place. The City will continue to replace older sanitary sewers and manholes throughout the City.

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

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/5/2024 2023

DNR Response to Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Kaukauna

Date of Resolution or
Action Taken:

2024-06-04

Resolution Number:

2024-5435

Date of Submittal:

6/5/2024

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

Financial Management: Grade = A

Permittee Response:

DNR Response:

Collection Systems: Grade = A

(Regardless of grade, response required for Collection Systems if SSOs were reported)

Permittee Response:

On May 16, 2023, the City experienced a sewer failure. The 18" concrete sewer that failed was replaced with a 18" PVC sewer. The city has an annual sanitary sewer replacement program in place. The City will continue to replace older sanitary sewers and manholes throughout the City.

DNR Response:

Continue to televise and replace older sanitary sewers and manholes throughout the City.

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

Permittee Response:

DNR G.P.A. Response:

DNR CMAR Overall Response:

Thank you for submitting the 2023 CMAR on time. The Department is appreciative of all of your efforts to implement your CMOM. Great Job!

DNR Reviewer: Oumarou, Barti

Phone: (920) 424-4013

Address: 625 E County Road Y Ste 700, Oshkosh, WI 54901-9731

Date: 8/28/2024

RESOLUTION NO. 2024-5435

2023 COMPLIANCE MAINTENANCE ANNUAL REPORT (CMAR) RESOLUTION

WHEREAS, it is a requirement under a Wisconsin Pollutant Discharge Elimination System (WPDES) permit issued by the Department of Natural Resources for the governing body to file a Compliance Maintenance Annual Report (CMAR) for its wastewater collection system under Wisconsin Administrative Code NR 208:

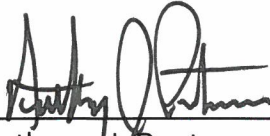
WHEREAS, the governing body has reviewed the Compliance Maintenance Annual Report (CMAR);

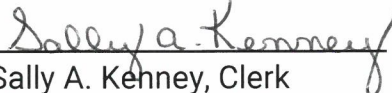
WHEREAS, it is necessary to provide recommendations or an action response plan for the Collection Systems CMAR section grades of "C" or less and/or an overall grade point average <3.00, or if a Sanitary Sewer Overflow was reported;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Kaukauna that the following recommendations or actions will be taken to address or correct problems/deficiencies of the wastewater treatment or collection system as identified in the Compliance Maintenance Annual Report (CMAR):

- 1) Continue systematic inspection, rehabilitation, and replacement of sanitary sewer collection system to maintain zero sanitary sewer overflows and assure capacity of the system for future growth.

Introduced and adopted this 4th day of June 2024.

APPROVED: 
Anthony J. Penterman, Mayor

ATTEST: 
Sally A. Kenney, Clerk

Section 3: Construction and Non-Construction I&I Reduction Projects

2023 Construction Projects

Project 1-23 Concrete Street Paving

This project incorporated the installation of 33 internal manhole chimney seals in newly paved areas, including Setter Drive, Boxer Street, Greyhound Street, White Dove Lane, and White Birch Street and reconstructed streets including Dixon Street, Seventh Street, Quinney Avenue, Metoxen Avenue, Oak Street, Schulthies Street and Canal Street.

There were also 63 storm sewer laterals installed as part of the paving project.

Project 2-23 Kenneth Avenue Area Utility Relay-Phase 3

This project included a sanitary sewer main and lateral relay on Sullivan Avenue, Hendricks Avenue, Main Avenue, Park Street, Klien Street, Miner Street, Fourth Street and Fifth Street as well as replacement of sewer in adjacent easements. Approximately 7 lineal feet of 18" sanitary sewer, 5 lineal feet of 12" sanitary sewer, 4,558 lineal feet of 8" sanitary sewer, 7,042 lineal feet of private lateral pipe (96 homes) and 135 vertical feet of sanitary manholes replaced the existing deteriorated clay pipe sanitary sewer system. A map of the project area is attached to this section.

2023 Non-Construction Projects

On-going Clearwater (Illicit Cross Connection) Inspections

In addition to inspection of private laterals by City staff in reconstruction project limits, the City contracts with Kaukauna Utilities (KU) to perform Clearwater inspections while they are in a property for Cross Connection Control and Backflow Prevention inspections.

In 2023, the City inspected 274 homes and businesses for illicit connections; we found no violations. Violations can include a variety of issues including, non-compliant private sewer lateral and sump to floor drain connections.

Sewer Cleaning and Inspections

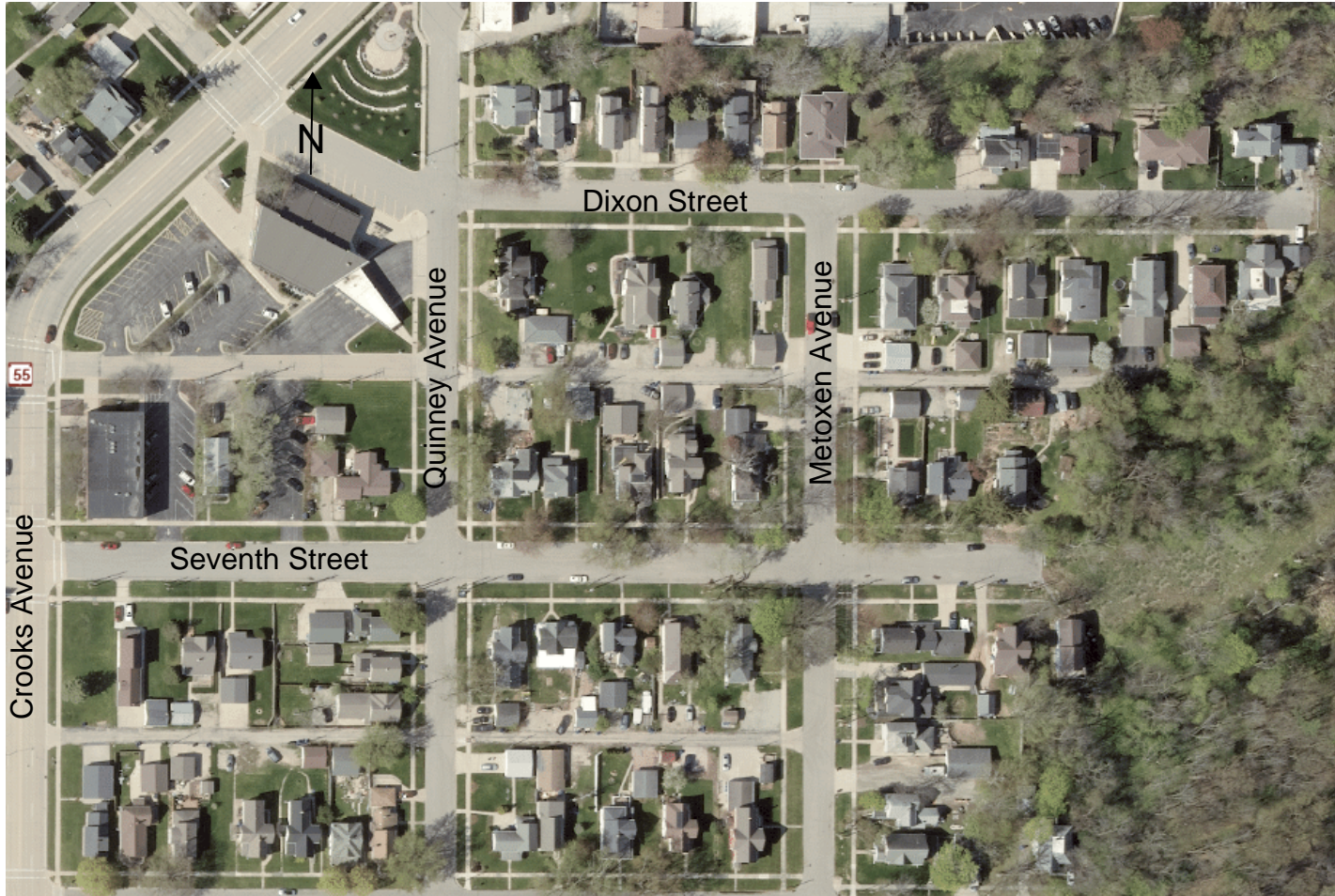
The one of major areas of sewer main cleaning in 2023 was between the CTH 'CE' on the south, Buchanan Road on the north, Thelen Avenue on the east and Travis Lane to the west. The other area was between Lawe Street on the north, Green Bay Road to the south, Claribel Street to the east and Grant Street to the west. The third area is between Debruin Road to the west, STH 55 to the east, CTH 'CE' to the north and CTH 'KK' Drive to the south. CCTV inspections include annual televising contract in various areas (see CCTV map), post televising for the sewer rehab areas and some miscellaneous lines that were suspect of having issues. 31,750 lineal feet of sewer main and 110 laterals were televised in 2023. See maps at the end of this section.

1-23 CONCRETE STREET PAVING

PROJECT AREA

RECONSTRUCTION

Dixon Street, Seventh Street, Quinney Avenue, and Metoxen Avenue



1-23 CONCRETE STREET PAVING

PROJECT AREA

RECONSTRUCTION

Oak Street, Schultheis Street, and Canal Street



1-23 CONCRETE STREET PAVING

PROJECT AREA

NEW CONSTRUCTION

Setter Drive, Boxer Street, and Greyhound Street



1-23 CONCRETE STREET PAVING

PROJECT AREA

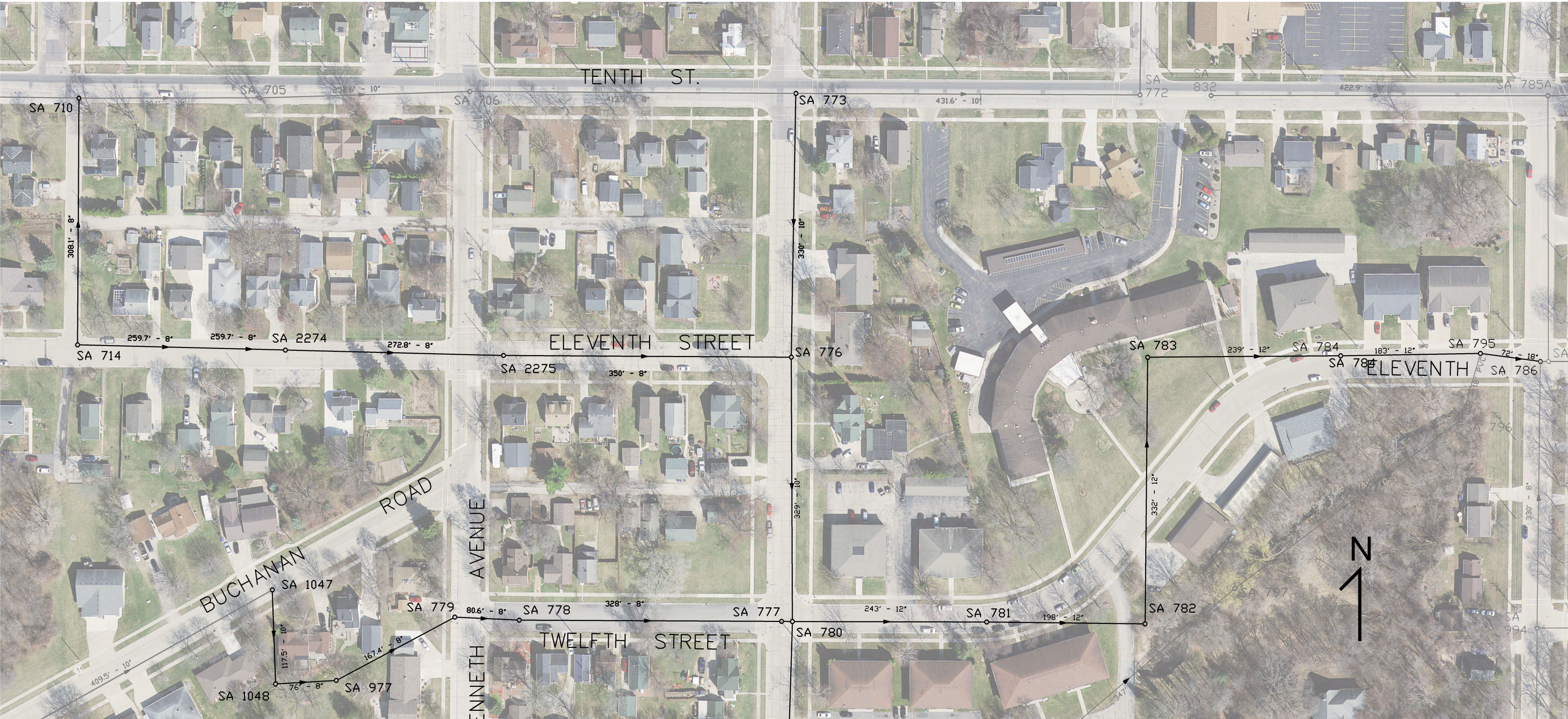
NEW CONSTRUCTION

White Dove Lane and White Birch Street



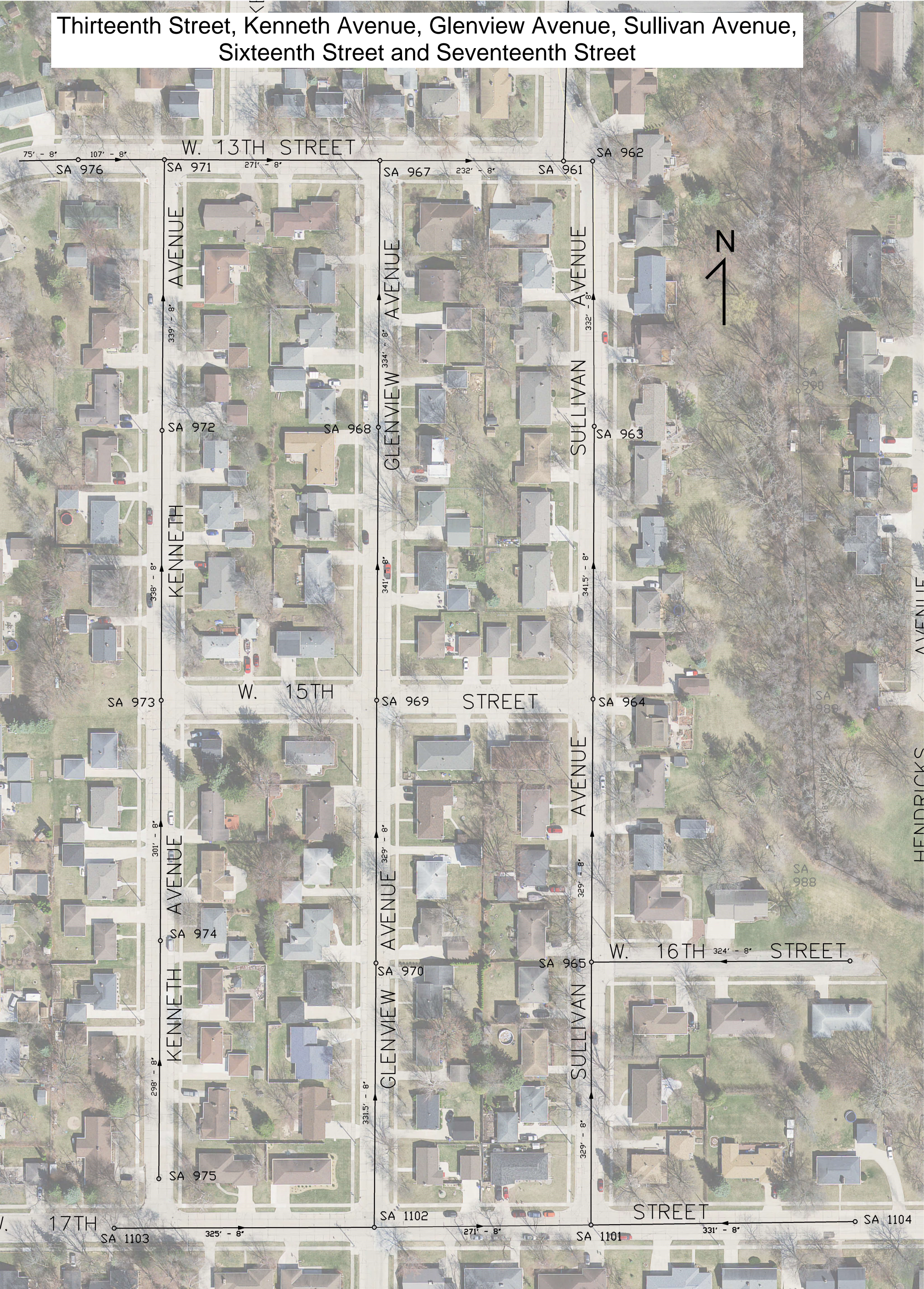
2023 SEWER TELEVISION

Tenth Street, Eleventh Street, Twelfth Street, Eden Avenue, and Sullivan Avenue



2023 SEWER TELEVISION

Thirteenth Street, Kenneth Avenue, Glenview Avenue, Sullivan Avenue, Sixteenth Street and Seventeenth Street



2023 SEWER TELEVISIONING

Idlewild Street, Jefferson Street, Black Street, Diedrich Street, Margaret Street, Gertrude Street, Maria Street, Armstrong Court, and Riverside Drive



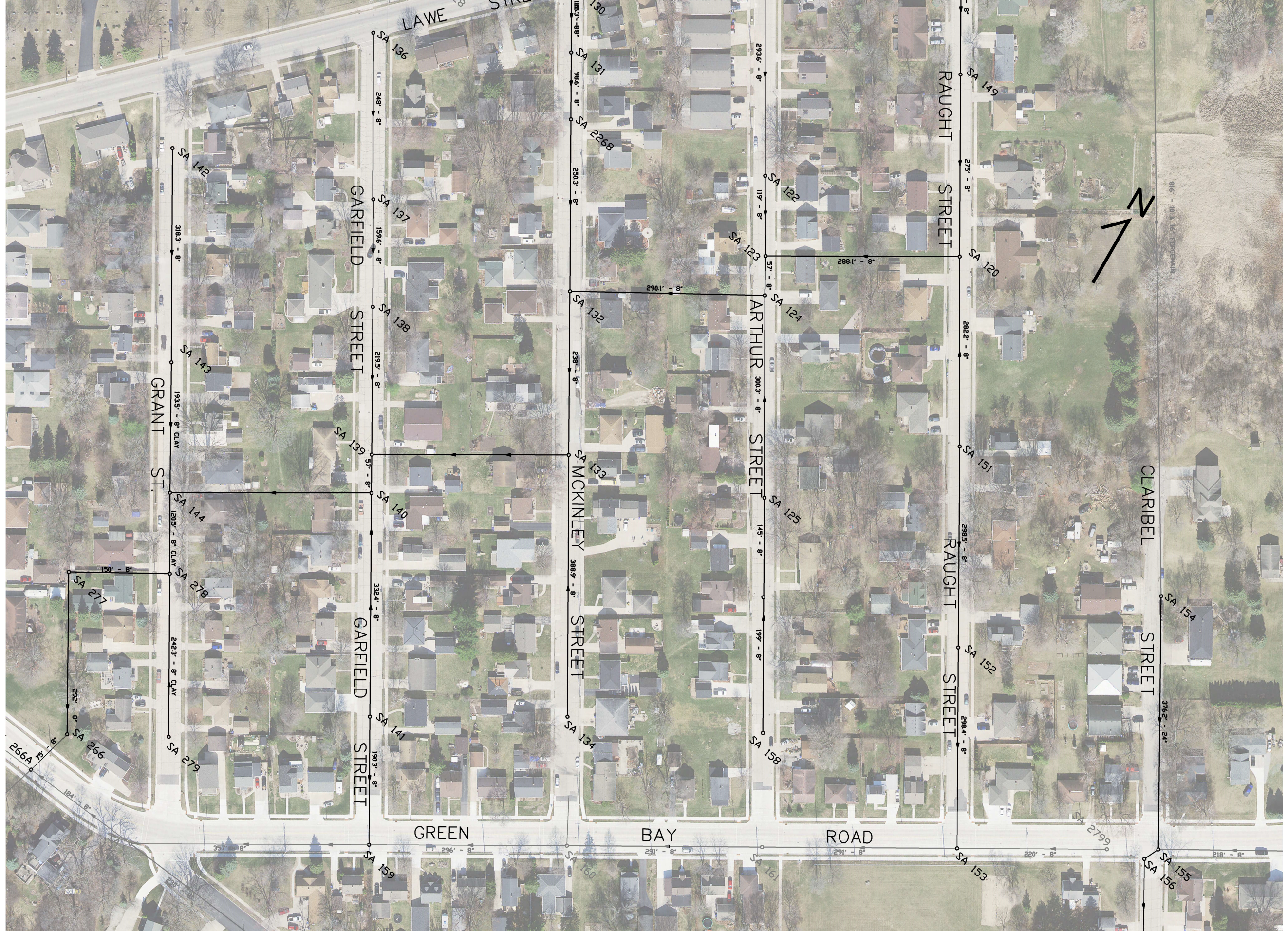
2023 SEWER TELEVISION

Wildwood Drive, Frostfield Drive, Ferncliff Drive, Willow Drive, Country Lane, and Thelen Avenue



2023 SEWER TELEVISION

Claribel Street, Raught Street, Arthur Street, McKinley Street, Garfield Street, and Grant Street



Section 4: Local Ordinance Changes

Ordinance number 1884, amending Section 13.05(5)(A) and Section 13.05(5)(B) of the Kaukauna Municipal Code changed the user charge from \$8.00 per 100 cubic feet to \$8.75 per 100 cubic feet.

Section 5: CMOM Updates and Changes

The CMOM Plan is a working document that will require updates based upon annual reviews and performance of the system. The annual audit of the CMOM plan will be an important part of maintaining a high level of sewer service and sewer capacity. Reviews will occur in December of each calendar year.

There were no major updates/changes to the CMOM program in 2023. The City did update the appendix for annual maintenance goals and performance measures for 2023. An updated table is attached to the end of this section.

ANNUAL MAINTENANCE GOALS AND PERFORMANCE MEASURES							
2023							
Sewer Mainline O&M							
MAINTENANCE ITEM	GOAL	% of System	2020	2021	2022	2023	Comments
Sewer Mainline Televised	4 mile per year- 5% of system per year	5.0%	22,650 ft (5%)	25,239 ft (5.6%)	17,250 ft(3.8%)	31,753 ft (6.9%)	Project Areas, Subd., CCTV
Main Line Rehabilitation and Replacement	1 mile per year	1.2%	7,200 ft (1.6%)	6,468 ft (1.4%)	5,910 ft (1.2%)	4,920 ft (1.1%)	Utility Relays on 4th,5th,Park,Klien,Sullivan,Hendricks,Miner, Main and Plank Road easement
Clean Main Line Sewers	10 miles per year	12%	139,100ft (31%)	82,075 ft (18%)	61,682 ft (12.5%)	81,092 ft (17.9%)	Approx. 25% of Branch lines per year
Root Cutting	TBD - Per Cleaning/Televising	TBD	5%	0%	0%	0.2%	
Flow Monitoring	TBD – Project Areas	TBD	0%	0%	0%	0%	100% metered at meter stations and lift stations -Discuss future metering options for project areas
Dye Test /Smoke Test	TBD - Visual Inspections will dictate	TBD	0 ft	0 ft	0 ft	0 ft	
Manholes O&M							
MAINTENANCE ITEM	GOAL	% of System	2020	2021	2022	2023	Comments
Visual Inspection of Critical and Easement MHs	Inspect 100% at least once annually	100%	100%	100%	100%	100%	
Visual Inspection of standard MHs	Inspect every 4 years	25%	660 (35%)	465 (25%)	300 (15%)	500 (25%)	Sewer Crew + CCTV + Project Areas
Manhole Rehabilitation/Replacement	Repair or replace 2% per year	2%	26 (1.3%)	41 (2.1%)	16 (1%)	34 (1.7%)	Paving and Lining
Lift Station O&M							
MAINTENANCE ITEM	GOAL	# Per Year	2020	2021	2022	2023	Comments
Lift Station Inspections	2 inspections per week of each station	104 per lift station	104	104	104	104	
Lift Station O&M Check	1 maintenance check per week	52 per lift station	52	52	52	52	
Clean and Degrease Lift Stations	2 times per year each	2 per lift station	3	2	2	7	
Easement O&M							
MAINTENANCE ITEM	GOAL	% of System	2020	2021	2022	2023	Comments
Visual Inspection of Easements	Inspect twice per year	100%	100%	100%	100%	100%	
Easement Maintenance	Maintain access to each mh and mark for visibility	As needed	NA	NA	NA	NA	
Private Lateral O&M							
MAINTENANCE ITEM	GOAL	#	2020	2021	2022	2023	Comments
Visual Inspection of Laterals	Inspect 100% of Laterals in Rehab Area	Varies	100%(14)	100% (109)	100%(158)	100% (110)	
Replace Private Laterals	Replace 95% of residential laterals - rehab project	Varies	100% (14 of 14)	85% (64 of 75)	88%(139 of 158)	87%(96 of 110)	
Inspect Private Properties for Illicit Connections	Inspect all properties within a 10 year cycle	10%	2%	2%	3%	5%	Mostly performed by Kaukauna Utilities - performed 274.

RESOLUTION NO. _____

**RESOLUTION ACCEPTING THE CITY OF KAUKAUNA
2023 ANNUAL CLEARWATER SUSTAINABILITY PROGRAM REPORT TO THE
HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT (HOVMSD)**

WHEREAS, it is a requirement of the HOVMSD that member communities file an annual report as part of its Clearwater Sustainability Program; and

WHEREAS, the governing body of the City of Kaukauna has reviewed the annual report to the HOVMSD; and

WHEREAS, the annual report contains the following components as required by the HOVMSD:

1. Compliance Maintenance Annual Report (CMAR) as submitted to the Wisconsin Department of Natural Resources (WDNR)
2. WDNR response to CMAR
3. Summary of construction and non-construction inflow/infiltration reduction projects
4. Local ordinance changes related to inflow/infiltration
5. Capacity, Management, Operation, and Maintenance (CMOM) updates or changes

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Kaukauna that the report prepared by the City of Kaukauna Engineering Department has been accepted and shall be forwarded to the HOVMSD as per HOVMSD requirements.

Introduced and adopted this 15th day of October, 2024.

APPROVED: _____
Anthony J. Penterman, Mayor

ATTEST: _____
Sally Kenney, Clerk