



CMOM Program
Annual Report
For
Village of Germantown
2015

Prepared by: Timothy K. Zimmerman - Wastewater Superintendent

June 17, 2016

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SECTION 1: PROGRAM OVERVIEW

In preparation of the impending Sanitary Sewer Overflow (SSO) rule and the Capacity, Management, Operations and Maintenance (CMOM) component of the proposed rule by the United States Environmental Protection Agency (USEPA) and the State of Wisconsin Department of Natural Resources (WDNR), the Milwaukee Metropolitan Sewerage District (MMSD) developed a CMOM Program for its wastewater collection system. The USEPA's proposed SSO regulation goal is to reduce health and environmental risks by reducing SSO occurrences. The MMSD, recognizing the interdependency between its system and the satellite municipality systems for successfully meeting the USEPA SSO regulation goal, pursued a regional CMOM approach and cooperatively worked with the 28 satellite municipalities to develop their CMOM Programs.

The Management Plan is intended to describe the means and methods the Village of Germantown has in place to ensure complete execution of an approved CMOM Program. This is the general format of the Management Plan and is derived from the proposed USEPA SSO regulations. The municipal systems served by MMSD developed a Management Plan that will support CMOM Program development and implementation. Specifically, the Village of Germantown Management Plan satisfies the following requirement of the Stipulation Agreement, signed with the State of Wisconsin in May 2002:

7.A. Management Plan. A plan that outlines the goals of the CMOM, the organizational structure to manage it, the legal authority to control Infiltration and Inflow (I/I), design criteria, benchmarking data and performance measures to attain the goals. A significant effort associated with the Management Plan shall be the development of an asset management (AM) Program that provides for both programmed maintenance and tracking of the asset condition to enable early recognition of expansions or major rehabilitation necessary to avoid capacity limitations.

There are three objectives the Management Plan must satisfy. First, it must satisfy the requirements stated in the Stipulation Agreement. Second, it must satisfy the MMSD Rules & Regulations pertaining to CMOM Programs of all MMSD satellite municipalities. Third, it must serve to achieve the larger CMOM Program goals that the Village of Germantown has established.

The CMOM Program is used as a method for the District to document current and proposed activities that are intended to help the Village achieve goals related to I/I control, overflows, and conveyance capacity. In addition, through the annual reporting and auditing effort, it is a way to periodically assess its practices and make systematic improvements. As part of this effort, the Village has completed this first review of the Program in conjunction with evaluating the performance measures defined in the Program. The details of the Program changes resulting from the review are described further in the appropriate section below.

1.1 REPORT PURPOSE

The CMOM Program Annual Report provides summary descriptions of CMOM Program activities (past and planned) and is intended to be a communication tool. The report is intended for Village staff, regulatory authorities, customers, and the general public. The report serves five general purposes:

1. To provide an overview of the activities completed under the CMOM Program on an annual basis;
2. To describe and document changes to the CMOM Program documentation on an annual basis, which may include changes to objectives, strategies, tactics, and performance measures; and
3. To describe the activities that are planned or currently being undertaken under the CMOM Program.
4. To continue compliance with the 2002 Stipulation Agreement between the Village, the District and the State of Wisconsin, which requires that "On a regular basis the District shall report to the Department on the implementation and performance of the CMOM program."
5. Complies with NR 210.23 Capacity, Management, Operations, and Maintenance Programs (Effective August 1, 2016)

The report consists of this Program Overview section plus one section for each of the CMOM Program Plans (Management Plan, Asset Management Plan, Overflow Response Plan, System Evaluation and Capacity Assurance Plan, Communication Plan, and Audit Plan).

1.2 THE FOLLOWING CMOM PROGRAM GOALS WERE ESTABLISHED BY THE VILLAGE OF GERMANTOWN

- Comply with the conditions of the WPDES permit
- Minimize the occurrence of preventable overflows
- Minimize the life cycle ownership costs of the collection system assets
- Improve or maintain the level of customer service
- Improve or maintain system reliability
- Reduce the potential threat to human health from sewer overflows
- Provide adequate capacity to convey peak flow
- Manage infiltration and inflow

- Protect collection system worker health and safety
- Operate a continuous CMOM Program

1.3 PROGRAM SUMMARY PLAN

The Village's CMOM Program includes a Management Plan combined with an Asset Management Plan, Overflow Response Plan (ORP), System Evaluation and Capacity Assurance Plan (SECAP), Communication Plan and Audit Plan. Activities that took place in 2015 under each of these plans are discussed below. Performance measures are included in the CMOM Program under the Management Plan, but are discussed separately below.

Performance Measures

A complete list of the performance measures and the value/status for 2015 is included in Appendix 1. The purpose of the performance measures is to track Village activities over time and gauge achievement of Village objectives.

Some of these performance measures have been selected as key performance measures to be used to quickly gauge the overall performance of the Village in the areas of Organization, System Performance, and Customer Service. Note that the performance measures evolve over time.

Management Plan

The Management Plan describes the goals and objectives of the Village related to conveyance and the strategies and tactics the Village is employing to achieve the goals, and the performance measures being used to assess attainment of the goals. Modifications to the plan are described in detail in Section 2.

The Management Plan includes an Asset Management component related to asset information, asset maintenance, asset rehabilitation and replacement, levels of service, and cost minimization.

Overflow Response Plan

The Overflow Response Plan describes the measures the Village has put in place to be aware of, respond to, and provide notification of, overflows from the Village system. The plan was reviewed by Utility staff and emergency contact numbers were verified.

System Evaluation and Capacity Assurance Plan (SECAP)

The SECAP describes the actions that the Village has taken and will take to determine capacity requirements, evaluate system capacity, and undertake capacity enhancement measures.

The SECAP indicated that there were no capacity limitations. This is supported by the fact that there have been no basement back-ups or SSOs caused by capacity limitations.

Communication Plan

The Communication Plan serves to document the types and frequency of communications that will be prepared and distributed regarding the implementation of the CMOM Program.

The Village has listed contact numbers on their website to report sewer emergencies.

Audit Plan

The Audit Plan serves to define the method, responsibilities, timeline, and documentation that will be used to complete an audit of the Village's CMOM Program.

An audit report was completed and submitted for review in 2015.

Key Performance Indicators

Key performance indicators and benchmarks are highlighted in Appendix 1.

Significant Activities

The Village continues to implement its CMOM Program, updating as necessary. Included in these efforts, the Village has kept up with all identified main line repairs and continually updates its sewerage system GIS database. As part of an annual program, manholes are inspected, repaired and sealed. In addition, sewer mains are inspected and repaired as necessary. I/I sources that are cost effective to remove including lateral leaks and property drainage problems will be corrected.

SECTION 2: MANAGEMENT PLAN

This section of the report will discuss the changes to the defined performance measures and the evaluation of the Village's performance using the defined measures. The review of the performance using the defined measures is intended to be an evaluation of the Village's status with respect to achieving its objectives. The review then provides impetus to continue existing strategies and tactics or to modify them to better achieve the objectives.

2.1 PERFORMANCE MEASURES

Performance measures were originally defined in Section 2.1.4 of the CMOM Program documentation submitted to the MMSD in 2009.

2.1.1 CHANGES TO THE DEFINED PERFORMANCE MEASURES

There are no changes to the defined performance measures for this annual report.

2.1.2 DISCUSSION OF HIGH, MEDIUM AND LOW PRIORITY GOALS

Table 1 summarizes the status of CMOM Program Strategy Implementation Activities.

2.1.3 EVALUATION OF 2015 PERFORMANCE BASED ON THE DEFINED MEASURES

All of the individual performance measures and the value or status of them for the year 2015 are included in this report. Appendix 2 includes attributes that have been improved to a higher status.

2.2 MANAGEMENT PLAN REVISIONS

There were no changes made to the revised Village's objectives, strategies, tactics and performance measures in 2015.

CMOM PROGRAM IMPLEMENTATION ACTIVITIES

TABLE 1			
Strategy Element	Steps	Priority	Status
Management Plan	1. Brief Director of Public Works on CMOM Strategy	High	Completed
	2. Assemble information to complete Management Plan template	High	Completed
	3. Draft Management Plan	High	Completed
	4. Finalize Management Plan	High	Completed
	5. Resolve High Priority Areas for Improvement (from CMOM Readiness Review)	High	Completed and ongoing
	6. Resolve Medium Priority Areas for Improvement (from CMOM Readiness Review)	Medium	Ongoing
	7. Resolve Low Priority Areas for Improvement (from CMOM Readiness Review)	Low	Not Completed
Overflow Response Plan	1. Assemble information to complete ORP template	High	Completed
	2. Train staff on ORP	High	Completed
	3. Develop mock drills and schedule	Medium	Ongoing
	4. Establish inter-agency assistance agreements for improved ORP response	Low	Completed and ongoing
SECAPs	1. Review Village design criteria related to system capacity	SECAP determined no hydraulic inadequacies	Ongoing monitoring to support findings
	2. Evaluate Village's conveyance system using hydraulic analysis tools		
	3. Perform any appropriate field investigations		
	4. Evaluate system flows relative to MMSD Peak Flow Performance Standards		
	5. Evaluate a wide range of capacity-enhancement and peak flow reduction measures		
	6. Develop a CIP list of capacity enhancement projects		
	7. Evaluate the impact of inter-municipality connection discharges.		
	8. Produce a SECAP document		MMSD Completed
Communication Plan	1. Develop the CP	Medium	Completed
	2. Assign staff responsibilities	Medium	Completed

	for the CP 3. Distribute the CP to all appropriate stakeholders	Medium	Completed and ongoing
Audit Plan	1. Develop a "suggestion box" to solicit input on the CMOM Program	Low	Not Completed
	2. Develop review and program change procedures	Low	Not Completed
	3. Acquire benchmark data	Low	Not Completed
	4. Perform five-year audit of CMOM Program	Low	Scheduled for reporting in 2020
High = Completed Medium = Completed or Ongoing Low = By 2016 and beyond			

**2014 Village of Germantown CMOM Annual Report Performance Measures
TABLE 2**

Task	Performance Criteria	Completed
Cyclic Sewer Cleaning	Length performed annually	28.8% of system
CCTV Inspection	Length performed annually	4.3 % of system
Manhole Inspections	Number inspected	16.2% of total inspected
Pump Station inspections	Frequency performed	270 inspections
SSES	Description of activities performed	Basin flow monitoring for I/I investigation
Rainwater Compliance Inspection	Description of activities performed	Not performed
Disconnect Clearwater Sources	Number disconnected	Not performed
Number of Manholes Repaired	Number repaired	6.1%
Length of Sewer Repaired or Replaced	Length repaired	0%
System Map	Data verified, QA/QC implemented, all facilities mapped and inventoried (completeness, accuracy and availability)	System map updated every March after engineering QA/QC of as built data

Skills and Safety Training	Certification/skills training identified, tracked, provided, and updated for applicable personnel	Completed CPR and First Aid 5/2013 Required OSHA and Comm. 9/2009, Safety manual ad updated training scheduled for early 2016
Capacity Evaluation	Evaluation completed in priority basins as necessary for development of 2020 Facilities Plan alternatives analysis and level of service evaluations.	No further work done
Information Management System	Periodically updated and set-up according to MMSD Standards	GIS conversion from AutoDesk to Arc Server. Asset management platform work ongoing
Annual sewer financial reports	Document produced annually.	Included
Annual CMOM Status Reports	Document produced annually.	Will be submitted 6/6/2016 Org. chart updated, design and inspection standards for the Village were revised in 3/2015
Organizational Chart	Document produced and updated as necessary.	Updated in 2015 to reflect personnel changes
Design and Inspection Standards	Confirm MMSD and State of Wisconsin standards in place	
System Evaluation and Capacity Assurance (SECAP)	Document produced if required.	None required
Standard Operating Procedures		Procedures reviewed not changed
CCTV and manhole inspection	Document produced and updated as necessary, according to approved standard.	
Cleaning	Document produced and updated as necessary.	Cleaning procedures reviewed not changed
Inspections (structures, pump stations)	Document produced and updated as necessary.	Pump station O/M manuals updated to reflect equipment upgrades and electrical and control wiring as-builts Reviewed forms unchanged
Overflow Response Plan (ORP)	Document produced and updated as necessary.	Reviewed and left unchanged
Capital Improvements Plan	Major rehabilitation identified on 5-year planning horizon. Summary document produced and updated as necessary.	Reviewed and recreated 11/15 to reflect changes in priority of projects and available funding
Condition Assessment	Inspection results reviewed, defects identified and prioritized, repair/rehabilitation projects identified and incorporated into Capital Improvements Plan.	Completed as part of the annual budget cycle
Legal Authority	Appropriate ordinances identified and adopted.	On going

SECTION 3: ASSET MANAGEMENT PLAN

Included in Management Plan

SECTION 4: OVERFLOW RESPONSE PLAN IMPLEMENTATION AND ONGOING ACTIVITIES

The Sewer Overflow Response Plan (SORP) is designed to ensure that every report of a confirmed sewage overflow is immediately dispatched to the appropriate crews so that the effects of the overflow can be minimized with respect to impacts to public health and adverse effects on beneficial uses and water quality of surface waters and customer service. The SORP further includes provisions to ensure safety pursuant to the directions provided by the Washington County Health Department and that notification and reporting is made to the WDNR. For purposes of this SORP, “confirmed sewage spill” is also sometimes referred to as “sewer overflow, “overflow”, or “sanitary sewer overflow (SSO)”. The effective date of this plan is June 30, 2009. Furthermore, the Village of Germantown treats every response as an emergency, regardless of the cause or outcome.

The primary objectives of the SORP are to protect public health and the environment, satisfy the WDNR and WPDES wastewater discharge permit conditions, which address procedures for managing sewer overflows, and minimize risk of enforcement actions. Additional objectives of the SORP are as follows:

- Provide appropriate customer service
- Protect collection system personnel
- Protect the collection system, and all appurtenances
- Protect private and public property beyond the collection system

The Village did not have any sanitary sewer overflows in 2015.

4.1 ROOT CAUSE ANALYSIS

The Village addresses any issues that may arise in the collection system.

SECTION 5: SECAP IMPLEMENTATION AND ONGOING ACTIVITIES

The MMSD prepared a Limited System Evaluation and Capacity Assurance Plan. Sewer modeling of the trunk sewers showed no deficiencies.

SECTION 6: COMMUNICATION PLAN

The Communication Plan documents the types and frequency of communications that are prepared and presented or distributed regarding the implementation of the CMOM Program.

Discussed below are the activities of the communication plan that have been completed during 2015:

- Utility staff attended MMSD Annual CMOM Conference and WRWA Annual Conference. The information was shared with staff.
- The CMOM Plan was discussed with the Director of Public Works.
- The Village website contains contacts for emergency sewer service.

SECTION 7: AUDIT PLAN IMPLEMENTATION

CMOM Program Audit Plan Strategy

In 2014/2015, the Village of Germantown audited the CMOM Program to evaluate the program's implementation and performance. The audit covered the program's compliance with permit requirements (if any), any identified deficiencies, and steps to address them.

Purpose of CMOM Audit

The CMOM Program AP establishes a process for reviewing and evaluating the performance of the CMOM Program and implementing needed changes.

The objectives of this AP are as follows:

1. Solicit suggestions and obtain stakeholder input.
2. Allow for periodic review and changing of CMOM Program according to input and benchmarking data.
3. Establish processes for changing the CMOM Program according to results of periodic review with respect to performance measures.
4. Reflect CMOM implementation status within the audit process.
5. Provide data to the Communication Plan regarding plan changes in order to demonstrate that the CMOM Program is being regularly updated.

The Audit Plan is comprised of three sections: (1) Annual updating, which is completed through the Annual Report; (2) Program audit, which is completed through the Program Audit Report

and undertaken on a five year cycle, with the next anticipated in 2019/2020 and (3) Program change procedures, which will be implemented following the Program Audit.

Compliance Maintenance Annual Report

Germantown Village

Last Updated: Reporting For:
6/15/2016 2015

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 80%;" type="text" value="Timothy K. Zimmerman"/></p> <p>Telephone: <input style="width: 30%;" type="text" value="262-253-7765"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 80%;" type="text" value="gtsewer@bizwi.rr.com"/></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><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> 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: 20%;" type="text" value="2014"/></p> <p><input checked="" type="radio"/> 0-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input type="radio"/> N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWFPP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> No (40 points)</p>	0																								
REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]																									
<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: 20%;" type="text" value="2015"/></p> <p><input checked="" type="radio"/> 1-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input type="radio"/> 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: 90%;" type="text" value="626,830.90"/></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></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 90%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 90%;" type="text" value="626,830.90"/></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: 90%;" type="text" value="33,403.70"/></td> </tr> <tr> <td>3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)</td> <td style="text-align: center;">-</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 90%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.6 Ending Balance as of December 31st for CMAR Reporting Year</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 90%;" type="text" value="660,234.60"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 90%;" type="text" value="626,830.90"/>	3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)		\$	<input style="width: 90%;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 90%;" type="text" value="626,830.90"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 90%;" type="text" value="33,403.70"/>	3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)	-	\$	<input style="width: 90%;" type="text" value="0.00"/>	3.2.6 Ending Balance as of December 31st for CMAR Reporting Year		\$	<input style="width: 90%;" type="text" value="660,234.60"/>	
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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.

Annual contribution for sewer cleaner replacement. The rest is earned interest

3.3 What amount should be in your Replacement Fund? \$ 125,000.00

Please note: If you had a CWFPP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the HELP link under Info 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	Private property I/I remiation	800000	2017
2	48" Interceptor Rhabilitation 7600 lin. ft. 2018 cost 2.9 million	2900000	2018

5. Financial Management General Comments

0

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

Compliance Maintenance Annual Report

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Sanitary Sewer Collection Systems

1. CMOM Program

1.1 Do you have a Capacity, Management, Operation & Maintenance (CMOM) requirement in your WPDES permit?

- Yes
- No

1.2 Did you have a documented (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance (O&M) or CMOM program last calendar year?

- Yes (Continue with question 1)
- No (30 points) (Go to question 2)

1.3 Check the elements listed below that are included in your O&M or CMOM program.

Goals

Describe the specific goals you have for your collection system:

Continue to reduce I/I into the system. Use cost effective I/I removal technologies, Continue to provide current levels of service and improve on them as money and time allow.

Organization

Do you have the following written organizational elements (check only those that apply)?

- Ownership and governing body description
- Organizational chart
- Personnel and position descriptions
- Internal communication procedures
- Public information and education program

Legal Authority

Do you have the legal authority for the following (check only those that apply)?

- Sewer use ordinance Last Revised Date (MM/DD/YYYY)
- Pretreatment/industrial control Programs
- Fat, oil and grease control
- Illicit discharges (commercial, industrial)
- Private property clear water (sump pumps, roof or foundation drains, etc.)
- Private lateral inspections/repairs
- Service and management agreements

Maintenance Activities (provide details in question 2)

Design and Performance Provisions

How do you ensure that your sewer system is designed and constructed properly?

- State plumbing code
- DNR NR 110 standards
- Local municipal code requirements
- Construction, inspection, and testing
- Others:

Industry accepted best practices, Village design, and construction standards

Overflow Emergency Response Plan:

Does your emergency response capability include (check only those that apply)?

- Alarm system and routine testing
- Emergency equipment
- Emergency procedures
- Communications/notifications (DNR, internal, public, media, etc.)

Capacity Assurance:

How well do you know your sewer system? Do you have the following?

- Current and up-to-date sewer map

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- Sewer system plans and specifications
- Manhole location map
- Lift station pump and wet well capacity information
- Lift station O&M manuals

Within your sewer system have you identified the following?

- Areas with flat sewers
- Areas with surcharging
- Areas with bottlenecks or constrictions
- Areas with chronic basement backups or SSOs
- Areas with excess debris, solids, or grease accumulation
- Areas with heavy root growth
- Areas with excessive infiltration/inflow (I/I)
- Sewers with severe defects that affect flow capacity
- Adequacy of capacity for new connections
- Lift station capacity and/or pumping problems

0

- Annual Self-Auditing of your O&M/CMOM Program to ensure above components are being implemented, evaluated, and re-prioritized as needed
- 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="28.8"/>	% of system/year
Root removal	<input type="text" value="0"/>	% of system/year
Flow monitoring	<input type="text" value="100"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="4.3"/>	% of system/year
Manhole inspections	<input type="text" value="16.2"/>	% of system/year
Lift station O&M	<input type="text" value="270"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="6.1"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="0"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value=".1"/>	% of system/year
Private sewer I/I removal	<input type="text" value="0"/>	% of private services

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

Totals are based on total inventory of both public and private pipes and manholes

3. Performance Indicators

Compliance Maintenance Annual Report

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

34.93	Total actual amount of precipitation last year in inches
28.76	Annual average precipitation (for your location)
98.97	Miles of sanitary sewer
8	Number of lift stations
0	Number of lift station failures
0	Number of sewer pipe failures
7	Number of basement backup occurrences
0	Number of complaints
3.123	Average daily flow in MGD (if available)
4.581	Peak monthly flow in MGD (if available)
	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

0.00	Lift station failures (failures/year)
0.00	Sewer pipe failures (pipe failures/sewer mile/yr)
0.00	Sanitary sewer overflows (number/sewer mile/yr)
0.07	Basement backups (number/sewer mile)
0.00	Complaints (number/sewer mile)
1.5	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
0.0	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OFERFLOWS REPORTED **

Date	Location	Cause	Estimated Volume (MG)
None reported			

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

5. Infiltration / Inflow (I/I)

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

Yes

No

If Yes, please describe:

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:

I/I has gone down in some areas due to intensive manhole rehab

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

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100% flow monitoring. Development of a PP I/I repair program
--

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

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Grading Summary

WPDES No: 0047341

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

Notes:

A = Voluntary Range (Response Optional)

B = Voluntary Range (Response Optional)

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

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Resolution or Owner's Statement

Name of Governing Body or Owner:	<input type="text" value="Village of Germantown"/>
Date of Resolution or Action Taken:	<input type="text" value="6/6/2016"/>
Resolution Number:	<input type="text" value="11-16"/>
Date of Submittal:	

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

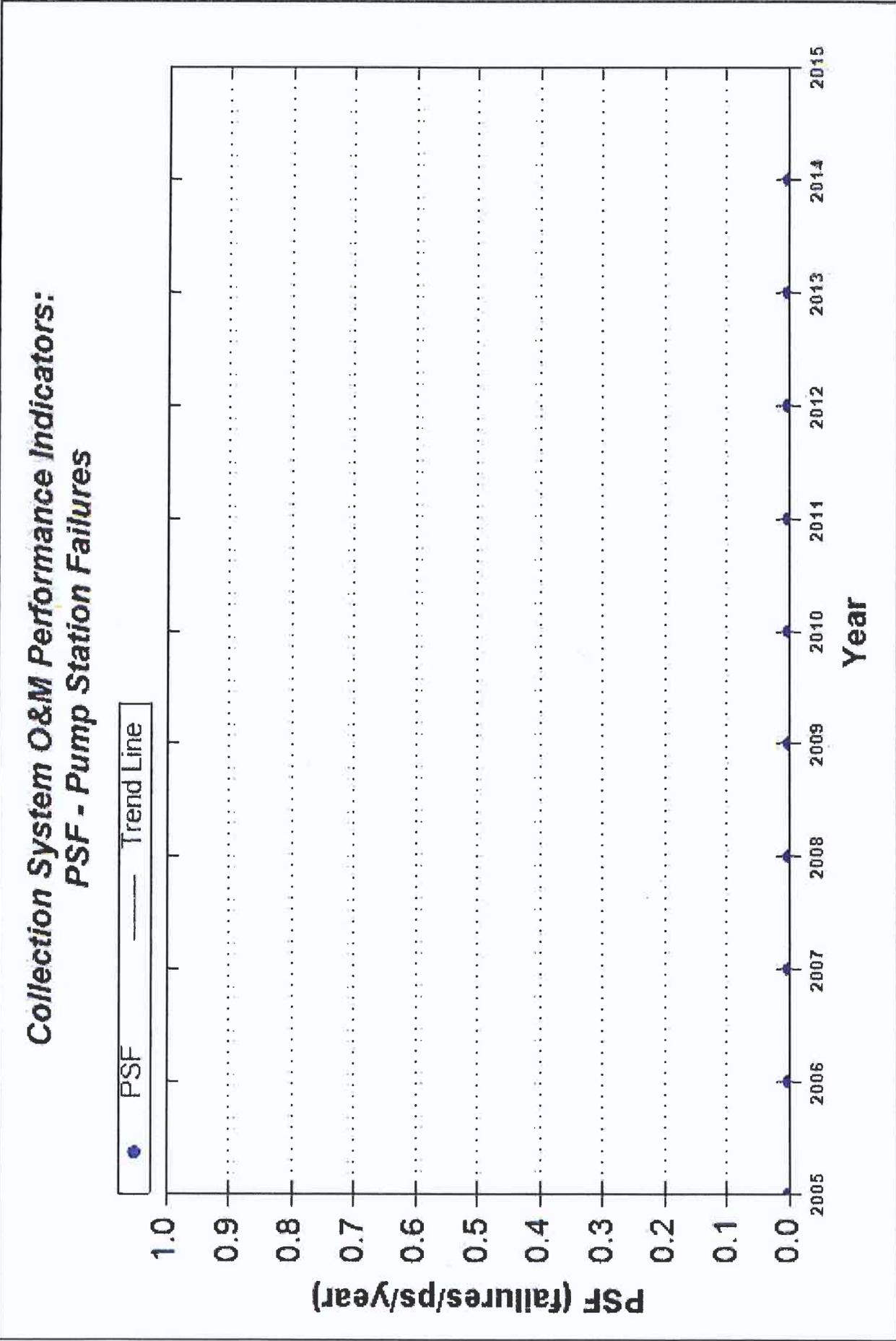
Financial Management: Grade = A

Collection Systems: Grade = A
(Regardless of grade, response required for Collection Systems if SSOs were reported)

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS
(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)
G.P.A. = 4.00

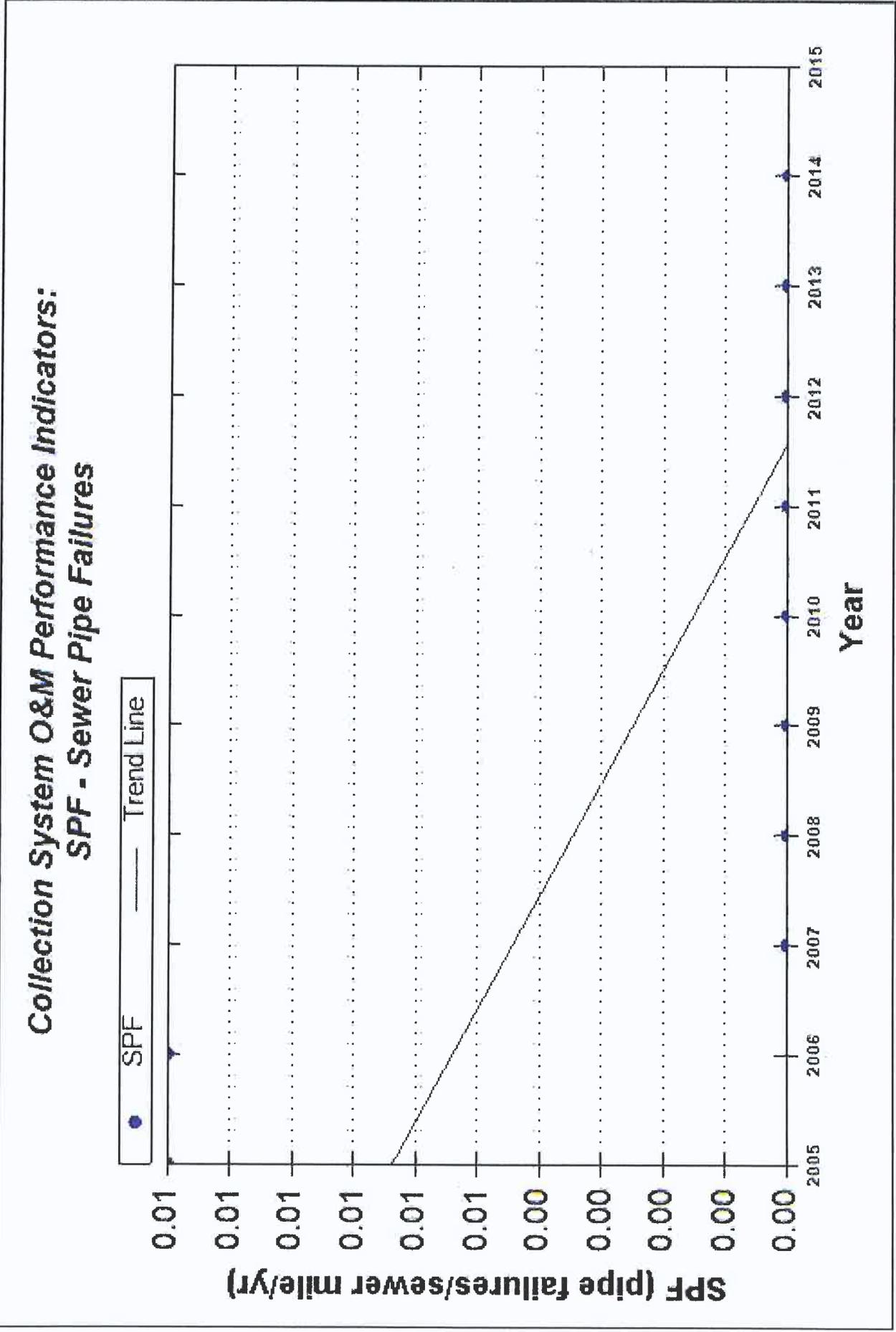
Germantown Village

Linear equation uses 2005 - 2015 CMAR data
for Trend Line: PSF: $y = 0x + 0$



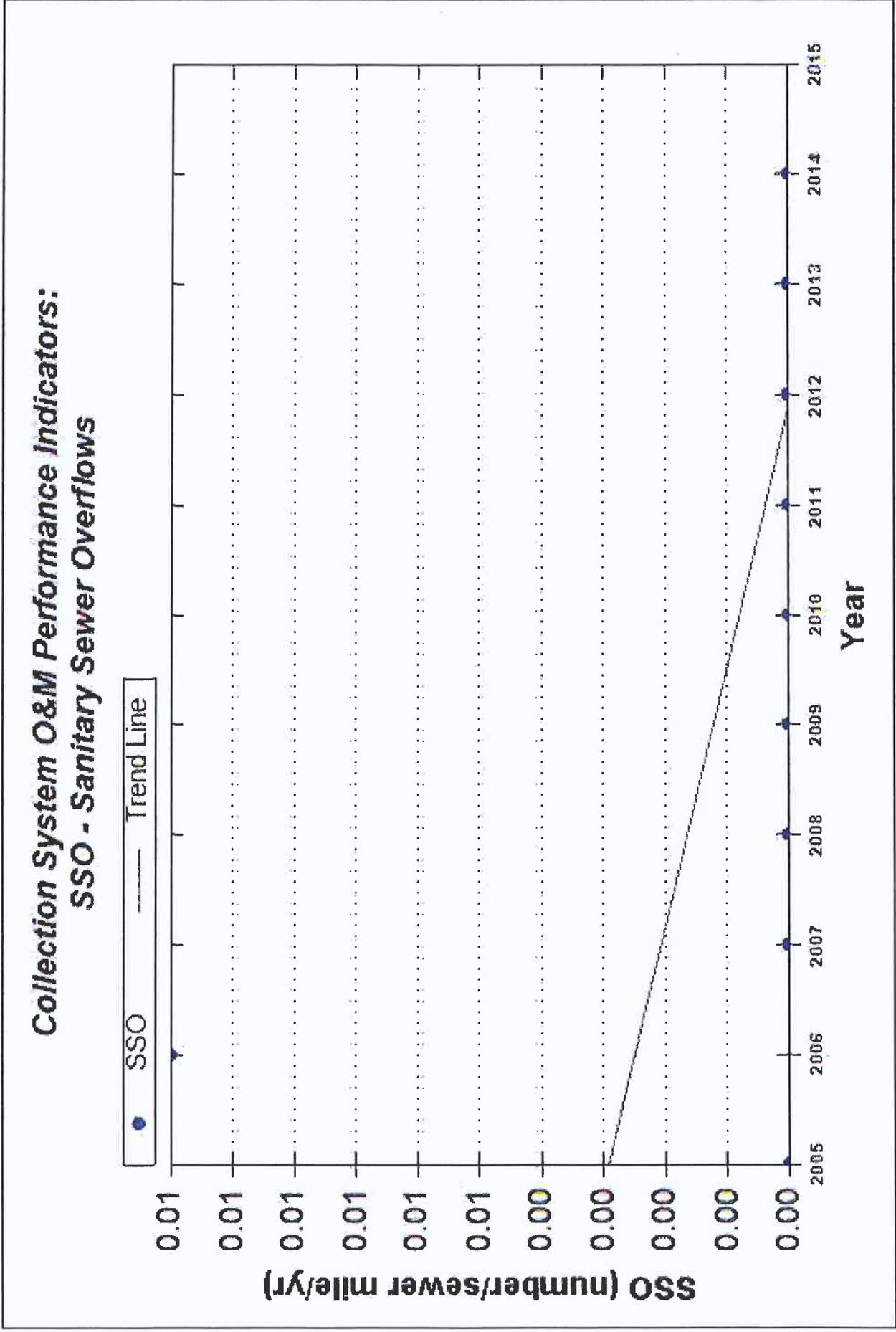
Germantown Village

Linear equation uses 2005 - 2015 CMAR data
for Trend Line: SPF: $y = -0.000969x + 0.01$



Germantown Village

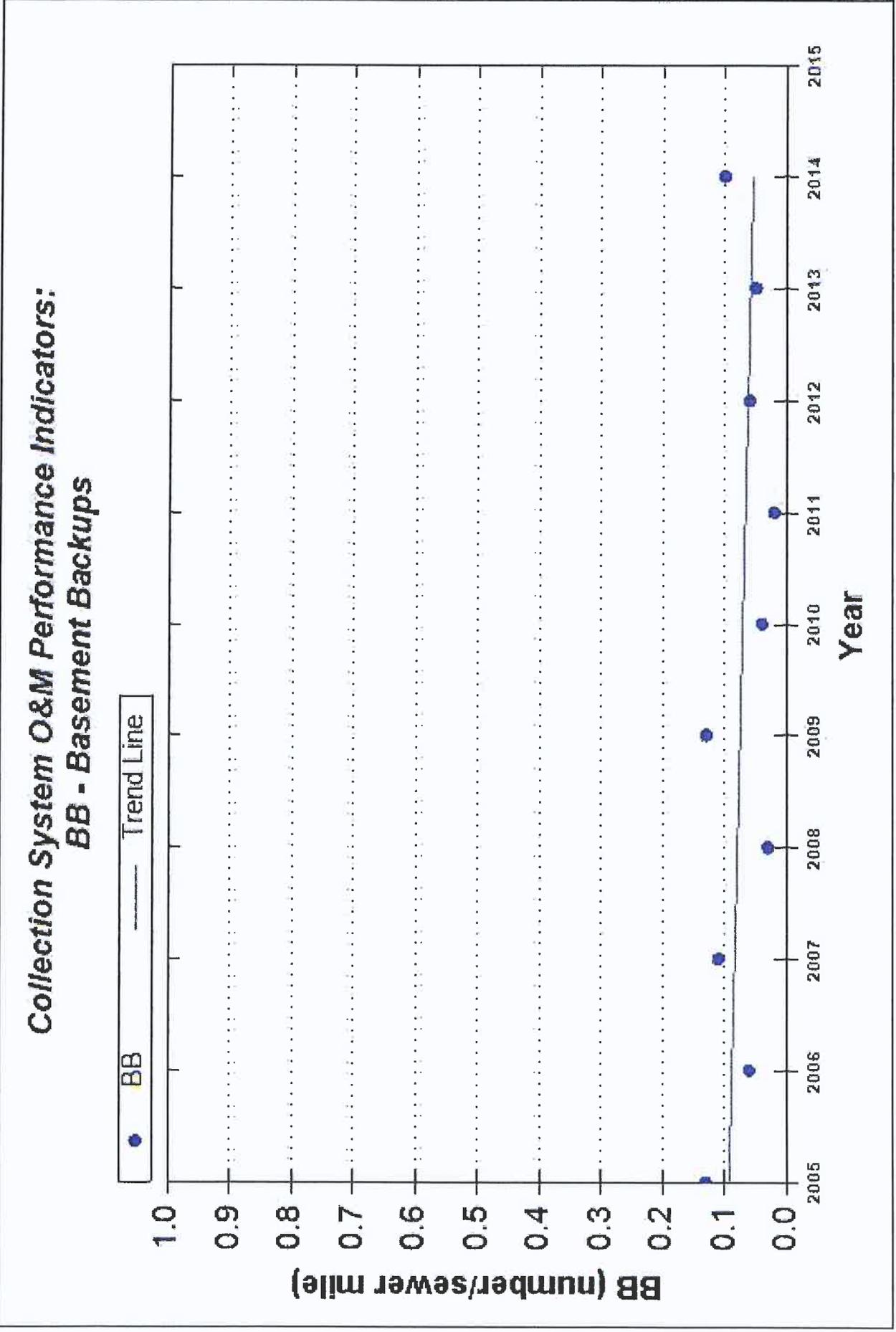
Linear equation uses 2005 - 2015 CMAR data
for Trend Line: SSO: $y = -0.000424x + 0.00$



Germantown Village

Linear equation uses 2005 - 2015 CMAR data

for Trend Line: BB: $y = -0.004301x + 0.09$

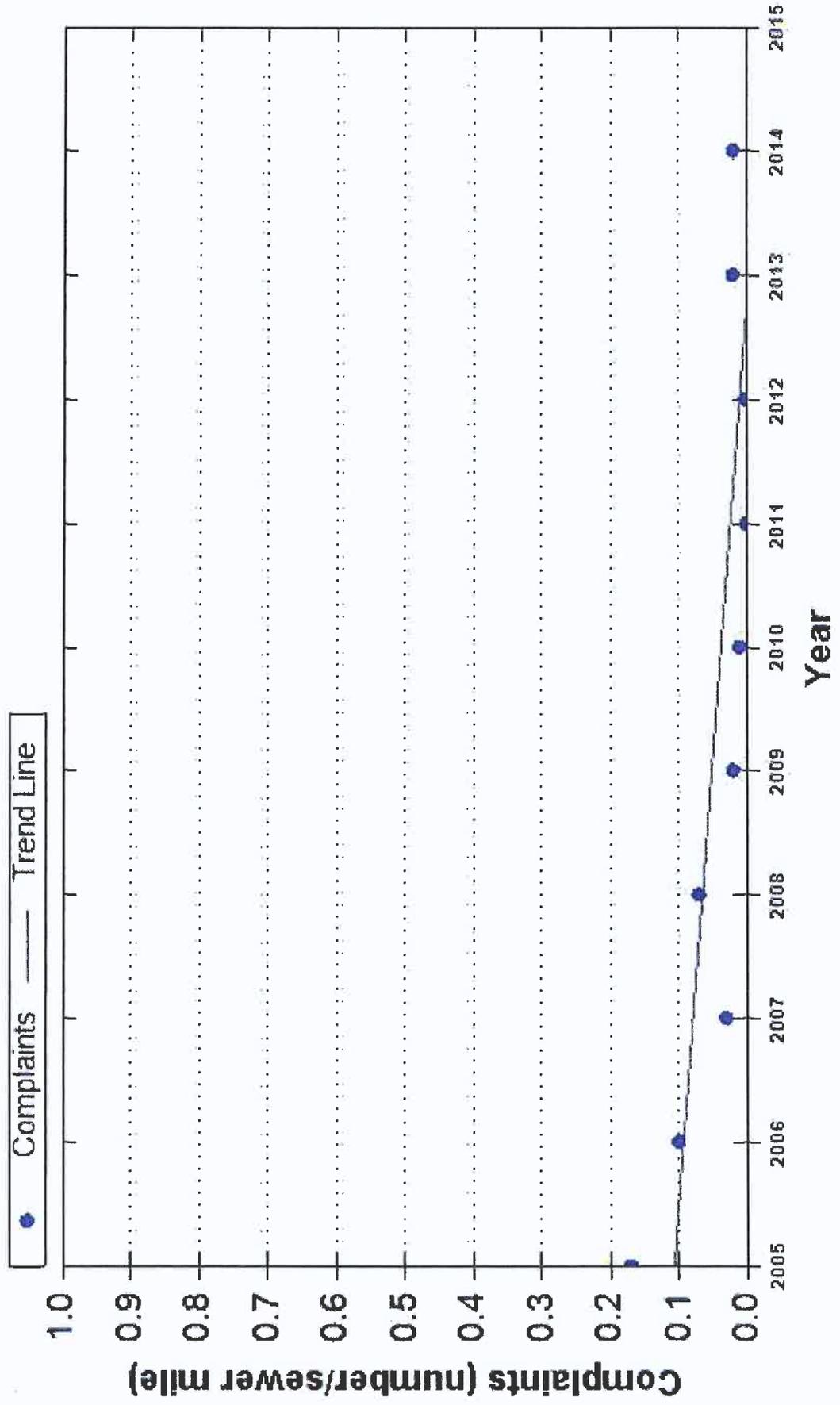


Germantown Village

Linear equation uses 2005 - 2015 CMAR data

for Trend Line: Complaints: $y = -0.013815x + 0.11$

**Collection System O&M Performance Indicators:
Complaints**



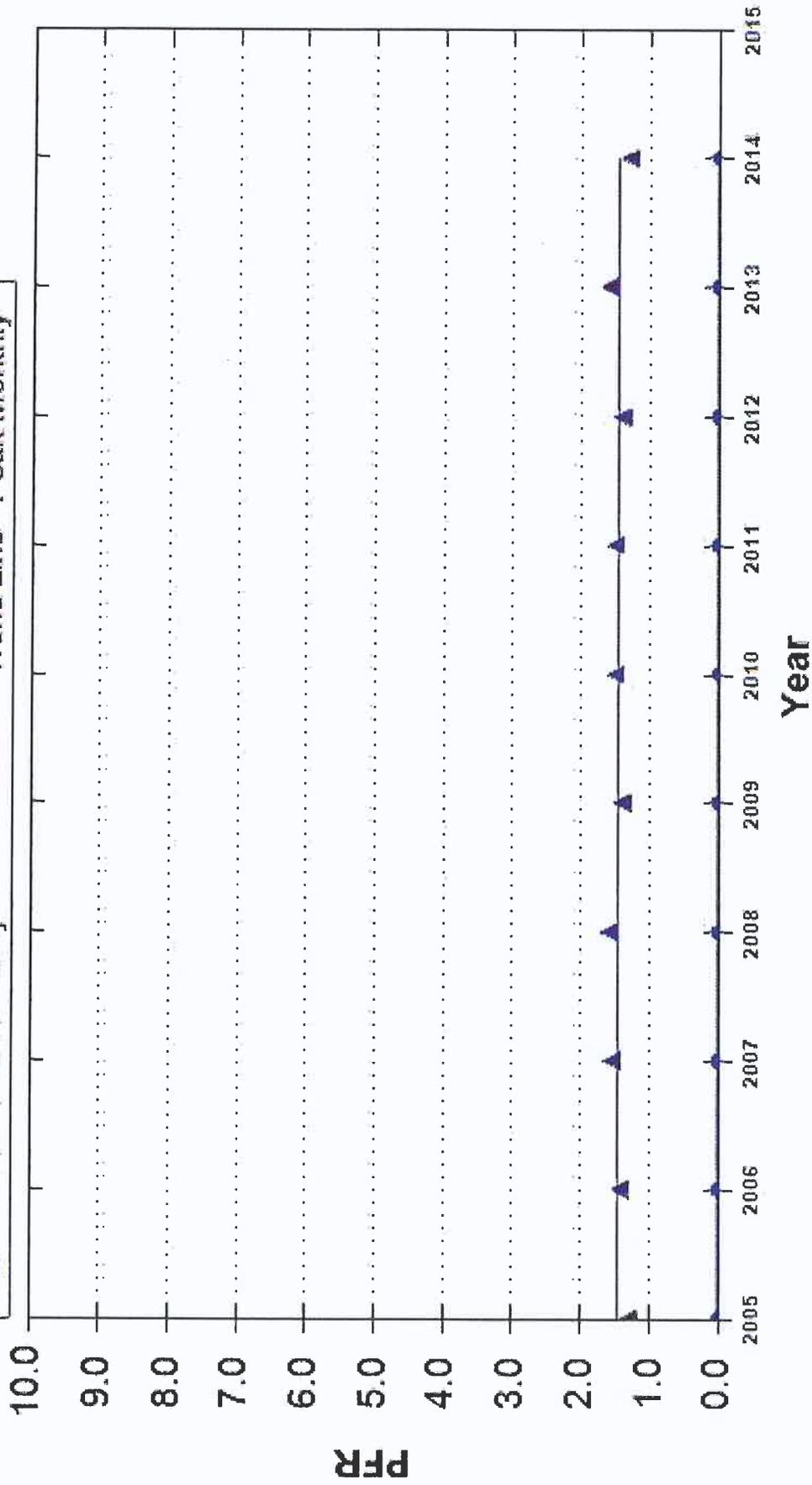
Germantown Village

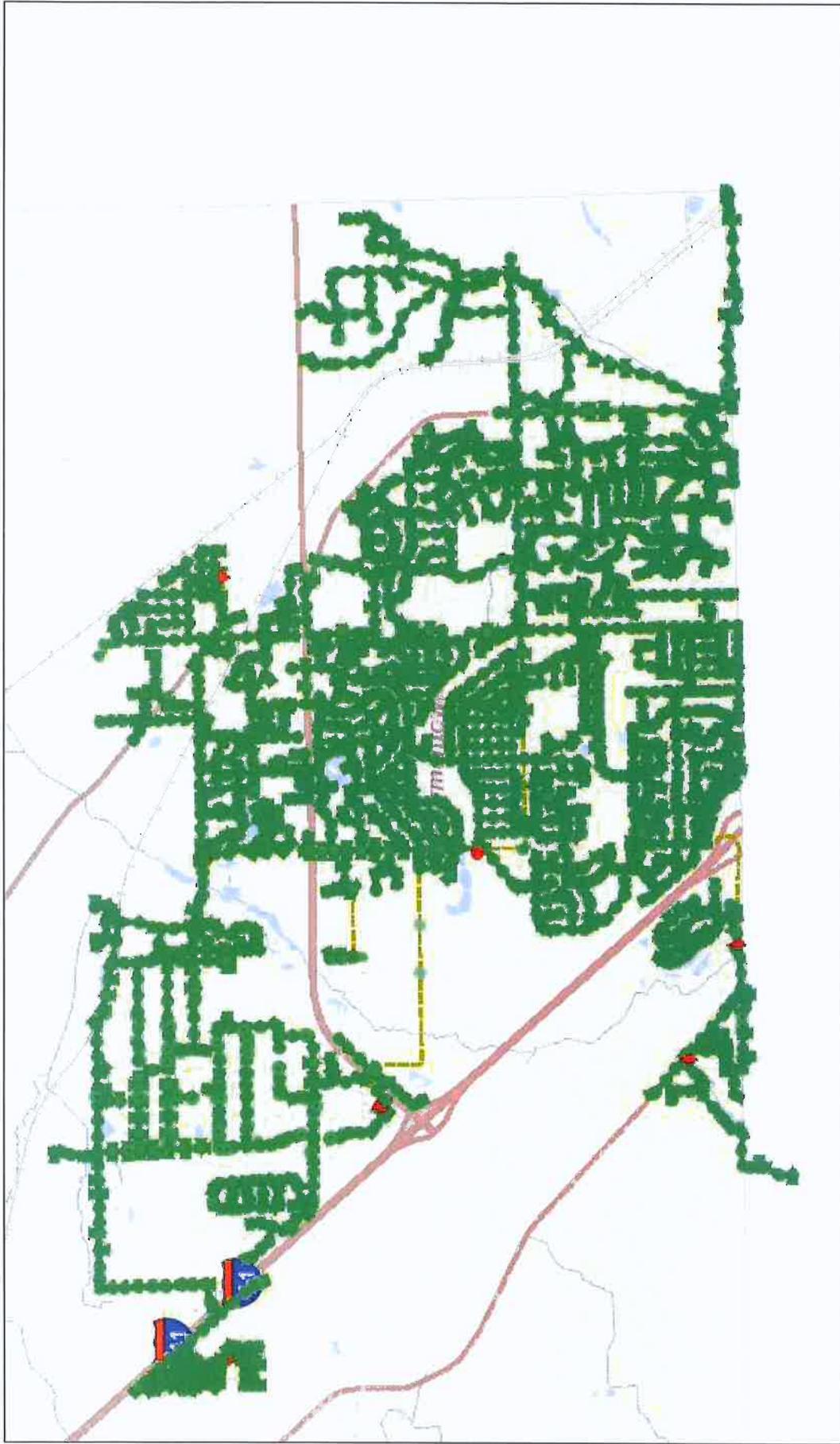
Linear equations use 2005 - 2015 CMAR data

for Trend Lines: PFR - Peak Hourly: $y = 0x + 0$

PFR - Peak Monthly: $y = 0.001875x + 1.45$

**Collection System O&M Performance Indicators:
PFR - Peaking Factor Ratio (Hourly and Monthly)**





Village of Germantown
2015 System Map



Village Of Germantown
N112 W17001 Mequon Road
Germantown, WI 53022
262-250-4700

DISCLAIMER:

This map is not a survey of the actual boundary of any property this map depicts.

The Village of Germantown Does not guarantee the accuracy of the material contained here in and is not responsible for any misuse or misrepresentation of this information or its derivatives.



SCALE: 1 = 3502'

Print Date: 6/21/2016