

Funding Agreement M10005MI10

Private Property Infiltration and Inflow Reduction Agreement

This Agreement is made between the Milwaukee Metropolitan Sewerage District (“District”) with its principal place of business at 260 West Seetho Street, Milwaukee, Wisconsin 53204-1446 and the City of Milwaukee (“Municipality”) with its municipal offices at 841 North Broadway, Room 821, Milwaukee, Wisconsin 53202.

WHEREAS, Wisconsin law, through Section 66.0301 Stats., authorizes any municipality to enter into an intergovernmental cooperation agreement with another municipality for the furnishing of services, and

WHEREAS, the District is responsible for collecting and treating wastewater from the Municipality’s locally owned collection system, and

WHEREAS, the Municipality’s sewers collect wastewater from lateral sewers located on private property and owned by private property owners; and

WHEREAS, during wet weather events stormwater enters lateral sewers through defective pipes and leaky joints and connections (“infiltration”) and stormwater also enters lateral sewers from foundation drains, improper connections, and other sources (“inflow”); and

WHEREAS, infiltration and inflow increase the amount of wastewater that the District must collect and treat; and

WHEREAS, during wet weather events infiltration and inflow (“I/I”) into privately owned sewers contributes to the risk of sewer overflows; and

WHEREAS, the District has established the Private Property Infiltration and Inflow Reduction Program (“Program”) to provide guidelines, requirements, and a funding structure for municipalities to complete I/I reduction work on private property through the District Private Property Infiltration and Inflow Policy (“Policy”); and

WHEREAS, the Municipality wishes to participate in the Program;

NOW, THEREFORE, in consideration of the mutual promises made by the parties to this Agreement, the parties agree as follows:

1. Term of Agreement

This Agreement becomes effective immediately upon signature by both parties and shall remain in effect until the earliest of (1) the Municipality receiving final payment from the District, (2) February 1, 2025 or (3) termination of this Agreement as otherwise set forth herein.

2. District Funding

The District shall reimburse the Municipality in an amount not to exceed \$150,000 for approved private property I/I costs incurred through the work described in Attachment A (“the Work”). Provided the Municipality is in compliance with the terms of this Agreement, the District funding shall be provided on a reimbursement basis in accordance with Section 8 below.

No reimbursement will be made for costs incurred prior to the effective date of this Agreement, or for costs that are not supported by documentation as outlined by this Agreement.

3. Program Publicity and Outreach Requirements

The Municipality shall identify the District as a funder in informational literature and signage relating to the Work. Samples of all public involvement/public education documents shall be provided to the District for review prior to being distributed to the public.

A minimum of a one (1) week notice of any public meetings shall be provided to the District. In the event the District is unable to attend and participate, detailed meeting minutes shall be provided within five (5) days of the meeting.

4. Selection of Professional Service Providers by Municipality

The selection of professional service providers to perform Work funded by this Agreement shall be in accordance with the Municipality's ordinances and policies.

5. Reserved

6. Reserved

7. Reserved

8. Procedure for Reimbursement

Each reimbursement request shall include:

- a. An invoice from the Municipality clearly stating the requested reimbursement amount;
- b. All consultant invoices with hourly billing rates, hours worked by individuals with billing backup task entries, consultant expense documentation, and a summary of the status of contract tasks;
- c. No municipal staff expenses will be funded through this Agreement.

Reimbursement requests should be submitted within a reasonable period of time of the costs being incurred. The final reimbursement request shall be submitted upon completion of all Work. All reimbursement requests must be received prior to the expiration of this Agreement.

Reimbursement requests and the supporting documentation of costs shall be submitted through eBuilder. The corresponding deliverables shall be submitted as set forth in Attachment B. Questions should be directed to the District Project Manager (PM):

Jerome Flogel, P.E.
Senior Project Manager II
Milwaukee Metropolitan Sewerage District
260 West Seetho Street.
Milwaukee, WI 53204-1446

Final payment will not be provided until the Work is complete and all deliverables set forth in Attachment B have been received.

9. Changes in Work and Modifications to the Agreement

Any proposed changes to the Work must be submitted to the District, in writing, in advance of the Work being completed. The District will not reimburse for Work that is not included in Attachment A (including all professional services and non-professional services contracts procured through the Work outlined in Attachment A) unless prior written approval has been requested from the District and approval has been obtained through the eBuilder change process.

This Agreement may be modified only in writing signed by both parties or through the eBuilder change process.

10. Responsibility for Work

The Municipality is responsible for overseeing construction and shall provide full time construction inspection for all Work. Each inspector shall be experienced, qualified, and certified for the scope of the Work.

11. Reserved

12. Permits, Certificates and Licenses

The Municipality is solely responsible for ensuring compliance with all federal, state and local laws requiring permits, certificates and licenses required to implement the Work.

13. Insurance

The District shall not provide any insurance coverage of any kind for the Work or for the Municipality. Municipality shall ensure that each contractor and subcontractor have adequate insurance to perform the Work and names the Municipality as an additional insured on its Commercial General Liability Insurance policies.

14. Terminating the Agreement

The District may terminate this Agreement at any time prior to commencement of the Work. After the Work has commenced, the District may terminate the Agreement only for good cause, such as, but not limited to, material breach of agreement by the Municipality. In the event that the District determines that a material breach has occurred, and if District determines in good faith that the breach is curable, the District shall first provide Municipality with notice of the breach and 15 business days in which to either cure the breach or reach a mutually agreeable resolution to the breach; however, in the event that the District determines, in good faith, that the breach cannot be cured or no resolution is reached within the 15 day timeframe, the District may terminate the Agreement. The Municipality may terminate the Agreement at any time but will not receive any payment from the District if the Work is not completed.

15. Exclusive Agreement

This is the entire Agreement between the Municipality and the District regarding reimbursement for Work.

16. Severability

If any part of this Agreement is held unenforceable, the rest of the Agreement will continue in effect.

17. Applicable Law

This Agreement is governed by the laws of the State of Wisconsin.

18. Resolving Disputes

If a dispute arises under this Agreement, the parties agree to first try to resolve the dispute with the help of a mutually agreed-upon mediator in Milwaukee County. Any costs and fees other than attorney fees associated with the mediation shall be shared equally by the parties. If the dispute is not resolved within thirty (30) days after it is referred to the mediator, either party may take the matter to court.

19. Notices

Unless otherwise set forth herein, all notices and other communications in connection with this Agreement shall be in writing and shall be considered given as follows:

- when delivered personally to the recipient's address as stated on this Agreement; or
- three (3) days after being deposited in the United States mail, with postage prepaid to the recipient's address as stated on this Agreement.

20. No Partnership

This Agreement does not create a partnership relationship nor give the Municipality the apparent authority to make promises binding upon the District. The Municipality does not have the authority to enter into contracts on the District's behalf.

21. Assignment

The Municipality may not assign any rights or obligations under this Agreement without the District's prior written approval.

22. Public Records

If the State of Wisconsin's Open Records Law, Wis. Stat. secs. 19.31 to 19.39, requires disclosure of a record related to this Agreement, then the Municipality and the District will cooperate to produce the record.

Milwaukee Metropolitan Sewerage
District

City of Milwaukee

By:

Kevin L. Shafer, P.E., Executive
Director

Date:

By:

Jerrel Kruschke, P.E. Commissioner of Public
Works

Date:

Approved as to form:

Approved as to form:

Attorney for the District

Attorney for the Municipality

ATTACHMENT A
Municipality Work Plan

City of Milwaukee Funding Agreement M10005MI10
Private Property Infiltration and Inflow Reduction
Attachment A



2023 PPII Work Plan

This checklist / template serves as the standard form for submitting a Work Plan to MMSD as a request to commit funds from your Municipal Funding Allocation Account to a project proposed for reimbursement through the MMSD PPII Reduction-M Program. If approved, the Work Plan will be the basis for a Funding Agreement between the municipality and MMSD. Please complete all fields comprehensively and submit this electronically-fillable-form and supporting document attachments via [MMSD's Municipal Portal](#).

I. CONTACT INFORMATION

Municipality	
Applicant Name: Jerrel Kruschke, P.E.	City of Milwaukee Municipality:
Mailing Address: 841 N. Broadway, Room 821, Milwaukee, WI 53202	
Phone #: 414-286-2400	Email: jkrusc@milwaukee.gov
Primary Contact: Robert Seleen, P.E.	Primary Contact email: rselee@milwaukee.gov
Primary contact phone #: 414-286-2465	
Consultant (if applicable)	
Firm:	Consultant's PM's Name:
Consultant Email:	Consultant Phone number:
Funding Agreement Signatories	
Provide the names and position titles of all municipal staff that will be required to sign the funding agreement. (i.e., mayor, administrator, clerk, attorney etc.)	
Name: Jerrel Kruschke, P.E.	Position Title: Commissioner of Public Works
Name: City Attorney	Position Title: City Attorney
Name:	Position Title:
Name:	Position Title:
Name:	Position Title:

II. PROPOSED SCOPE OF WORK

1. What type of work will be included in this work plan application? Check all applicable.
<input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Investigative <input type="checkbox"/> Construction/Rehab <input type="checkbox"/> Post Project Evaluation <input type="checkbox"/> Training <input type="checkbox"/> Other
2. What is the total value of the request by the municipality for funding through the PPII program for work outlined in this work plan? \$ 150,000.00
3. What is the total number of properties in the project area? 4063
4. What is the assumed number of participating properties? N/A
5. What is your justification for the assumed participation rate?
<input type="checkbox"/> Prioritization of properties based on investigative work <input type="checkbox"/> Assumed percent of total based on previous projects <input type="checkbox"/> Existing ROE agreements <input checked="" type="checkbox"/> Other (Fill in Blank):
6. Provide the scope of work that will be included in this work plan. This should include a detailed description of the work type(s) selected in Section II. Question 1.

Analyze existing flow meter data of six (6) City of Milwaukee sewersheds to evaluate the efficacy of past PPII projects and to prioritize the sewersheds and PPII methods for future work. Please see section A hydraulic assessment computer model will be created for each sewershed that will be calibrated to the rain gauge and flow meter data. A technical memorandum will be written that summarizes the results of the evaluation.

Sewersheds were chosen based on available flow monitoring data as well as comparing sewersheds that have had PPII and I/I reduction projects with sewersheds that have not.

The findings of the flow monitoring study will be used to assess the effectiveness of the various PPII and I/I projects and to prioritize future PPII projects.

7. What entity (e.g., municipality staff, consultant, contractor, District, etc.) is responsible for each scope of work scope listed in Section II. Question 6.

The City of Milwaukee DPW Environmental Engineering staff has selected the sewersheds to analyze. A consultant will be responsible for creating the hydraulic assessment computer model and preparing the technical memorandum.

8. Describe the municipal process(es) for procurement of all professional and non-professional (field work and construction) components of work and the basis for each.

The City of Milwaukee will be utilizing an established Master Contract to complete the study. A minimum of two consultants will be solicited for quotes.

III. PROJECT AREA CHARACTERISTICS

1. What is the predominant age of the homes in the project area?	<input type="checkbox"/> Pre 1940's	<input checked="" type="checkbox"/> 1940 – 1960	<input type="checkbox"/> 1961-1980	<input type="checkbox"/> 1981-Present																
2. What is the average lot size within the project area?	.14			<input type="checkbox"/> SF <input checked="" type="checkbox"/> Acres																
3. In this area, is it typical that foundation drains are connected?	<input type="checkbox"/> Yes			<input checked="" type="checkbox"/> No																
4. What sewershed(s) or metershed(s) is this project located in?	Sewersheds # MI6106, MI1097, MI3065, MI4014, MI4168, MI5016																			
5. Approximate year sanitary sewer collection system was installed:	1919-2021																			
6. Collection system characteristics in project areas:	<table> <tr> <td>Host Pipe Material(s): Mainlines</td> <td>Mainline</td> <td>Host Pipe Material(s): Laterals</td> <td>Lateral</td> </tr> <tr> <td><input checked="" type="checkbox"/> VCP</td> <td><input type="checkbox"/> Ductile Iron</td> <td><input checked="" type="checkbox"/> VCP</td> <td><input type="checkbox"/> Ductile Iron</td> </tr> <tr> <td><input type="checkbox"/> Cast-Iron</td> <td><input checked="" type="checkbox"/> Concrete</td> <td><input type="checkbox"/> Cast-Iron</td> <td><input checked="" type="checkbox"/> Concrete</td> </tr> <tr> <td><input type="checkbox"/> Asbestos</td> <td><input checked="" type="checkbox"/> PVC</td> <td><input type="checkbox"/> Asbestos</td> <td><input checked="" type="checkbox"/> PVC</td> </tr> </table>				Host Pipe Material(s): Mainlines	Mainline	Host Pipe Material(s): Laterals	Lateral	<input checked="" type="checkbox"/> VCP	<input type="checkbox"/> Ductile Iron	<input checked="" type="checkbox"/> VCP	<input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Cast-Iron	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Cast-Iron	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> PVC
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<input type="checkbox"/> Cast-Iron	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Cast-Iron	<input checked="" type="checkbox"/> Concrete																	
<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> PVC																	
7. Within the project area, is the mainline rehabilitated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			
<p>If "Yes," provide details on the year(s) the work was completed, the type and location of rehabilitation used, and if any rehabilitation of the sanitary sewer laterals within the ROW was completed.</p> <p>The following locations were completed between 2010 through 2022 or are about to be completed during the 2023 construction season:</p> <p>System 1547 (MI1097/MS0104): W. Cleveland Ave. - W. KK River Pkwy. to S. 67th St. (Sanitary Sewer Lining 2017); Area Bounded By: W. Harrison Ave. to W. KK River Pkwy. from S. 60th St. to S. 72nd St. (Sanitary Sewer Lining 2012); Area Bounded By: W. Harrison Ave. to W. KK River Pkwy. from S. 60th St. to S. 72nd St. (Building Sanitary Sewer Lateral Lining 2019); Area Bounded By: W. Harrison Ave. to W. KK River Pkwy. from S. 60th St. to S. 72nd St. (Foundation Drain Disconnection 2022)</p> <p>System 1386 (MI3065/MS0338): Area Bounded By: W. Center St. to W. Burleigh St. from N. 82nd St. to N. 92nd St. (Sanitary Sewer Lining 2010); Area Bounded By: W. Center St. to W. Burleigh St. from N. 82nd St. to N. 92nd St. (Building Sanitary Sewer Lateral Lining 2012); N. 86th St. - W. Center St. to W. Chambers St. (Foundation Drain Disconnection 2014)</p> <p>System 1150 (MI4014/MS0407): Area Bounded By: W. Congress St. to W. Villard Ave. from N. 60th St. to N. 91st St. (Sanitary Sewer Lining 2019)</p> <p>System 1259 (MI5016/MS0541): Area Bounded By: W. Glendale Ave. to W. Congress St. from N. 66th St. to N. 71st St. (Sanitary Sewer Lining and Building Sanitary Sewer Lateral Grouting 2022)</p> <p>System 1779 (MI4168/MS0412): No improvements</p> <p>System 1768 (MI6106/MS0618): No improvements</p>																				

8. Will non-MMSD funded public infrastructure work be contracted or completed with the private property work? Yes No

If "Yes", provide details of the public work.

9. Include with your application, two maps:

- One of the limits of the sewershed(s) or metershed(s) the project is in;
- And one of the project limits.

Both maps shall meet the following requirements.

- Maps shall use a street or aerial view as base map.
- Major street names shall be labeled and legible.
- Limits of the sewershed(s) and/or metershed(s),
- Project limits shall be defined by a bold red line.
- Sanitary and storm system line work shall be shown at a scale appropriate to the scale of the drawing.
- A north arrow and legend shall be included.
- Maps shall be between 5 and 40 scale and to a standard paper size (i.e., 8.5"x11, 11"x17", etc.)
- Maps shall be submitted as PDF electronic files.

IV. PROJECT JUSTIFICATION

1. Has any planning and/or investigative work within the project area been completed to date? (i.e., Flow monitoring, interior home inspections, sewer CCTV, analysis of flooding/backup issues in the area, etc.) Yes No

If "Yes," was the work completed through a previous PPII funding agreement? Yes No

If the answer is "Yes" to both questions, describe the work completed and cite report names and funding agreement reference number(s) the work was completed under.

If completed independent of the PPII program, include the report(s) with this application in electronic format and list the name of the report(s) in this section.

MI05 - Evaluation of Flow Reduction Effectiveness of Past City Projects (Flow Meter Analysis, 2015)

2. Describe how the project area and approach was chosen and prioritized.

Sewersheds were chosen based on prior PPII and/or I/I work within the system and the availability of flow meter data. An additional two sewersheds were included that have similar age sewers and homes but do not have recent improvements to the sewer system in order to compare with the improved systems.

3. What is the status of all project area sewersheds(s)/metershed(s) as related to the District Chapter 3 rules for wet weather performance?

Non-compliant Compliant Inconclusive Not Analyzed

If "Noncompliant," has PPII work been completed to date within the Project Area metershed(s)? If yes, provide details on the scope of work completed and location.

MI1097/MS0104 - Non-compliant

MI3065/MS0338 - Non-compliant

MI4014/MS0407 - Compliant

MI5016/MS0541 - Compliant

MI4168/MS0412 - Compliant

MI6106/MS0618 - Compliant

4. Does the municipality have any permitted (or unpermitted) wet-weather bypass locations in the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>If "Yes," provide approximate frequency and average volume per frequency for over the last ten years.</p> <p>There are a total of three (3) wet-weather bypass pumps that are located near/within the selected sewersheds.</p> <p>Please refer to the attached spreadsheet "Pump run times.xls" for more details.</p>	
5. Does the project area have a history of CSOs or SSOs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>If "Yes," provide the frequency of occurrences over the last ten years.</p> <p>There have been six (6) CSOs/SSOs between the three (3) pumps over the last 10 years. Please refer to the attached spreadsheet "Pump Run Times.xls" for more details.</p>	
6. Does the municipality have recurring basement backup reports in the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>If "Yes", please provide the average annual number of reports in the last ten years and the estimated storm recurrence interval that typically causes basement backups.</p> <p>Out of the 6 City sewersheds that the analysis will cover, there were a total of 61 basement backups reported within the last 10 years. Please see the attached "MAP 2" for backwater locations relative to the PPII work.</p>	
7. Do you have existing pre-project baseline data for this project area, such as metering, lift station run time, bypass pumping, basement backups, etc.?	<input checked="" type="checkbox"/> Yes – go to item 8 <input type="checkbox"/> No – go to item 9
8. Describe and detail information on the pre-project baseline data you have collected including type, location, and date ranges. If a MMSD meter is used as a source for this data, provide meter name and location.	<p>Please refer to "MAP 1" regarding the flow monitor locations within the project sewersheds. The flow monitors' locations and date ranges are as follows:</p> <p>S. 15th Pl. and W. Ohio Ave.: 2023 - Present S. 15th Pl. and W. Oklahoma Ave.: 2023 - Present W. KK River Pkwy. and S. 61st St.: 2017 - Present N. 86th St. and W. Center St.: 2012-Present N. 92nd St. and W. Center St.: 2012-Present N. 77th St. and W. Glendale Ave.: 2018 - Present N. 75th St. and W. Glendale Ave.: 2018 - Present N. 66th St. and W. Congress St.: 2018 - Present N. 53rd St. and W. Silver Spring Dr.: 2022 - Present</p>

9. Do you plan on collecting pre-project baseline data as part of this project?	<input type="checkbox"/> Yes – go to item 10 <input checked="" type="checkbox"/> No – go to item 11
10. Describe the pre-project data that will be collected to provide a baseline for improvement. If you intend to use or request MMSD portable meters, list the quantity, expected time frame installation and monitoring period.	
11. How do you intend to report project performance results? Please select all that apply.	
<input type="checkbox"/> Flow Metering <input type="checkbox"/> Reduced CSO/SSO <input type="checkbox"/> Identify I/I Sources <input type="checkbox"/> Participation Rates <input type="checkbox"/> Reduced Basement Backup Reports <input checked="" type="checkbox"/> Other: Please provide quantitative and/or qualitative measures for success as they relate to the selected project performance metrics. A report will be prepared by the consultant that summarizes the results of the analysis, including percent reductions in flow that resulted from the PPII and I/I work done to the systems.	

V. SCHEDULE

Include a schedule of the work with all major tasks and milestone dates for completion including:

- District and municipal administrative approvals
- Local board/council approvals
- Work task(s) start and finish
- Public outreach
- Key deliverables
- Reimbursement requests

The schedule needs to be realistic and achievable based on District approval timelines, local approval timelines, bidding process timelines, work production rates, and weather-related considerations. Identify and highlight any milestone dates by which the municipality is requesting the District to meet to keep your schedule (e.g., local council or board agenda deadlines). Provide the schedule in PDF format.

VI. FINANCIALS

1. Include a comprehensive cost estimate broke down to the task level which includes costs for: all internal municipal staff time which is being requested to be reimbursed, professional services including hours estimates and rates, construction costs by estimated units and estimated unit costs, inspection services, public outreach, and staff training. Attach an Excel version of the estimate to the application when submitting.

Please reference ([Chapter 9 - MMSD Standard Forms, PPII Muni Resource Webpage](#)) the *MMSD Engineer's Cost Estimate Template* for an example or to submit with this work plan.

2. Are other funding sources, besides MMSD PPII funds, contributing to the total project Yes No cost? i.e., municipal funds, grant funding, property owner cost share, etc.

If "Yes," list all addition funding sources, the specific work which will be covered by an additional funding source, and the value.

3. Explain the means and methods for segregating the cost (MMSD reimbursable costs and public work costs).

All costs for the flow meter analysis will be reimbursable by MMSD.

4. What department/individual/entity will be submitting and processing the reimbursement requests?
Please include the name and contact information.

City of Milwaukee/ DPW -Infrastructure Services Division/ Administration department

Name: Dennis Ancevic
Email: dancev@milwaukee.gov

5. MMSD requires all invoicing to be submitted via e-Builder. Will e-Builder training be Yes No necessary for the department/individual/entity that will be submitting and processing the reimbursement requests?

VII. PUBLIC OUTREACH

1. In regard to this work plan, have you completed any prior public outreach work in this project area (e.g., mailings, public meetings, door knocking, etc.) Yes – go to item 2 No – go to item 3

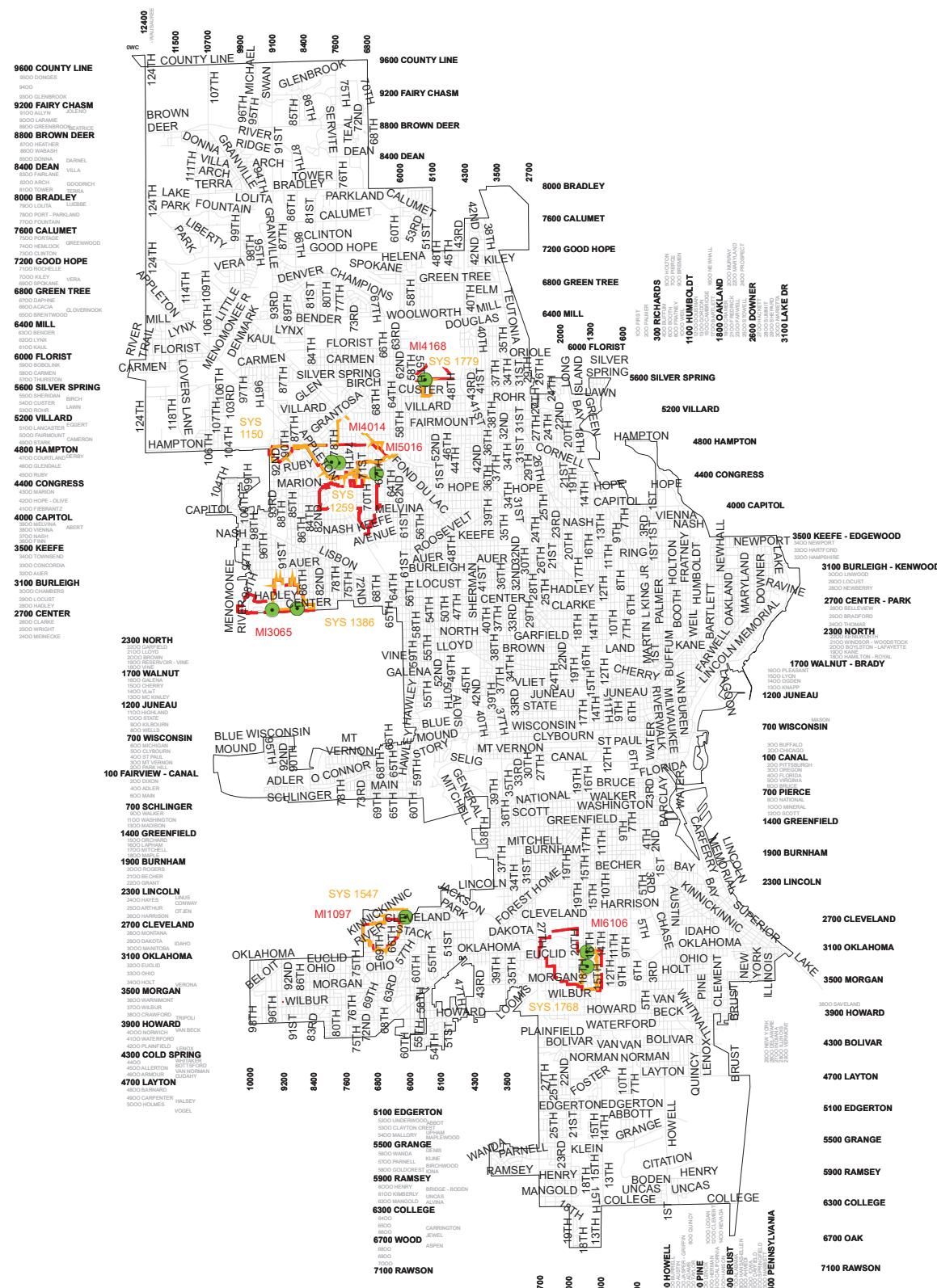
2. Describe in detail the pre-project public outreach work you have completed to date, including the method and entity responsible.

3. Describe in detail your public outreach approach for this project (Examples of public outreach include, but are not limited to; mailings, websites, social media, canvassing, public meetings, etc.). Please include:

- What entity/individuals/departments will be responsible for the public outreach. If a specific person or entity is responsible for public outreach, include the name and contact information.
- The timing and anticipated level of effort that is anticipated to be necessary for the public outreach effort.
- Any venues and/or communication platforms that will be used. Please consider what channels of communication your municipality already utilizes to communicate with residents.

Since this work will not impact any homes or businesses, public outreach will not be conducted as part of this project.

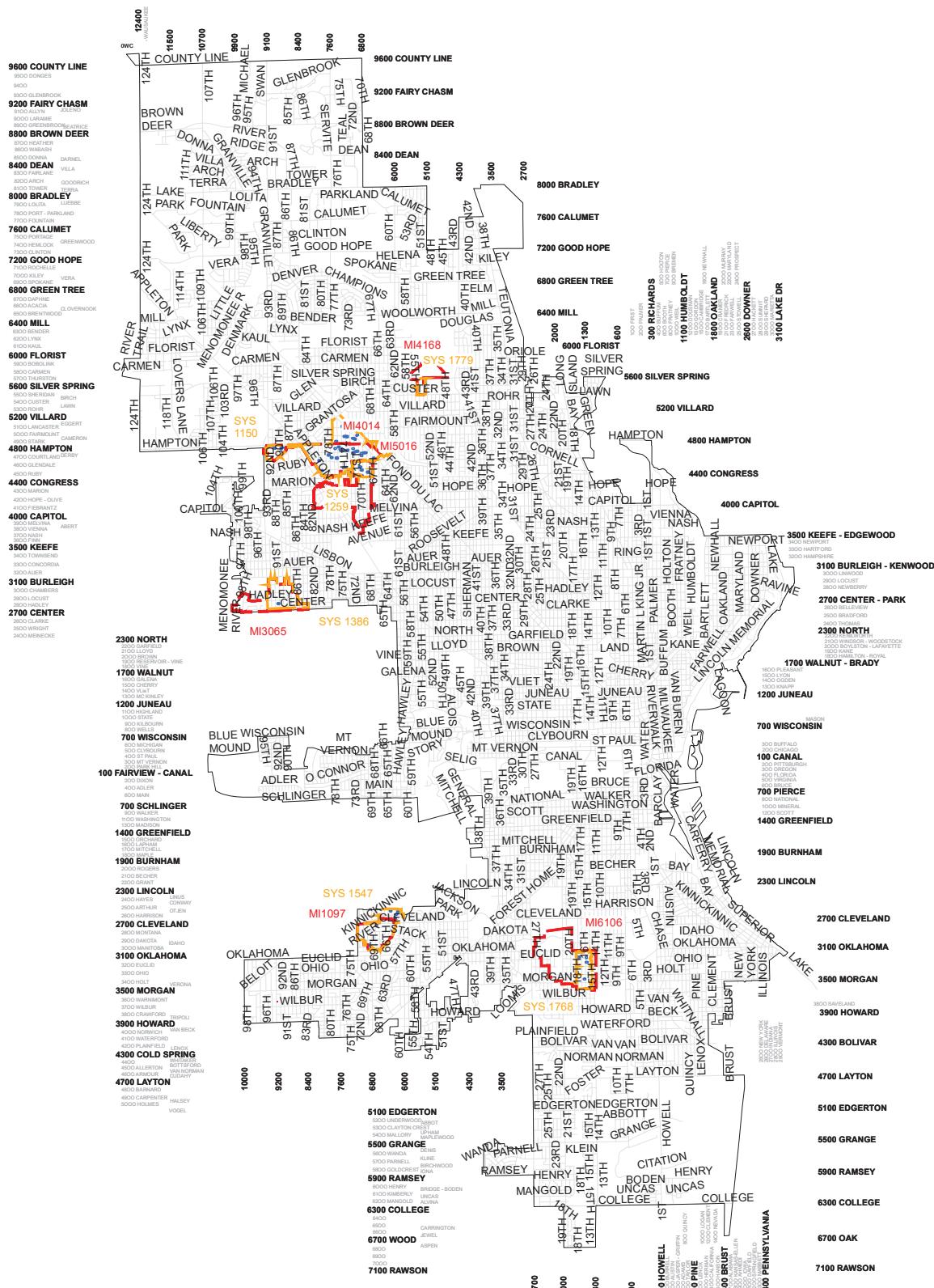
PPII - Flow Meter Analysis



LEGEND

- Sanitary Flow Meter
- City Sewershed
- MMSD Sewershed

PPII - Flow Meter Analysis



LEGEND

ID	PERMIT_NO	LOCATION	DATE_START	DATE_STOP	VOLUME	TIMESTAMP	Rain_Gauge	Reason	ReasonType	Rnfil_Amt	Dnr_Init	Dnr_Annual
558 234		N 076th St (W/S) & W Glendale St	18-Jun-18	21-Aug-18	21885	3:40:00 PM	3:53:00 PM	JUNE 18, 2018 STORM	PRECIPITATION	4	22-Jun-18	4
570 234		N 076th St (W/S) & W Glendale St	20-Aug-18	20-Aug-18	8891	10:15:00 PM	10:50:00 PM	AUGUST 20-21, 2018 STORM	PRECIPITATION	2.9	24-Aug-18	2.9
572 233		N 66TH ST & W RUBY AVE	20-Aug-18	20-Aug-18	15449	10:15:00 PM	10:50:00 PM	AUGUST 20-21, 2018 STORM	PRECIPITATION	2.9	24-Aug-18	2.9
565 234		N 076th St (W/S) & W Glendale St	26-Aug-18	27-Aug-18	84259	11:35:00 PM	12:05:00 AM	AUGUST 26-27, 2018 STORM	PRECIPITATION	3.3	31-Aug-18	3.3
592 234		N 76th St (W/S) & W Glendale St	17-May-20	17-May-20	89183	3:55:00 PM	4:47:00 PM	MAY 17, 2020 STORM	PRECIPITATION	4.1	22-May-20	4.1
598 234		N 76th St (W/S) & W Glendale St	08-Aug-21	08-Aug-21	21885	2:25:00 AM	2:38:00 AM	AUGUST 7-8, 2021 STORM	PRECIPITATION	4.1	13-Aug-21	4.1

Engineer's Estimate - Total Project Costs

Project Name:	City of Milwaukee Flow Meter Analysis						Date: 9/28/2023	
Project Location:	Various Sewersheds in the City of Milwaukee						Estimate By: EB	
EXAMPLE								
NO.	ITEM	UNITS	QUANTITY	UNIT COST	ITEM COST	% MMSD Cost Share	Value of Reimbursement	Basis of Estimate
1	ex. Senior engineer	Hours	120	\$ 160.00	\$ 19,200.00	50.00%	\$ 9,600.00	Hourly Rates x LOE
2	ex. Construction Inspection	LS	1	\$ 5,000.00	\$ 5,000.00	100.00%	\$ 5,000.00	20% of Construction estimate
Section 1: Engineering Costs								
NO.	ITEM	UNITS	QUANTITY	UNIT COST	ITEM COST	% MMSD Cost Share	Value of Reimbursement	Basis of Estimate
1	Senior Engineer	Hours	100	\$ 200.00	\$20,000.00	100%	\$20,000.00	Hourly Rates x LOE
2	Design Engineer	Hours	1000	\$ 130.00	\$130,000.00	100%	\$130,000.00	Hourly Rates x LOE
3					\$0.00		\$0.00	
4					\$0.00		\$0.00	
5					\$0.00		\$0.00	
6					\$0.00		\$0.00	
7					\$0.00		\$0.00	
8					\$0.00		\$0.00	
9					\$0.00		\$0.00	
10					\$0.00		\$0.00	
11					\$0.00		\$0.00	
12					\$0.00		\$0.00	
<i>Total of Section 1</i>					\$150,000.00	<i>Section 1 MMSD \$ Reimbursement</i>	\$150,000.00	
Section 2: Construction Costs								
NO.	ITEM	UNIT	QUANTITY	UNIT COST	ITEM COST	% MMSD Cost Share	Value of Reimbursement	Basis of Estimate
1					\$0.00		\$0.00	
2					\$0.00		\$0.00	
3					\$0.00		\$0.00	
4					\$0.00		\$0.00	
5					\$0.00		\$0.00	
6					\$0.00		\$0.00	
7					\$0.00		\$0.00	
8					\$0.00		\$0.00	
9					\$0.00		\$0.00	
10					\$0.00		\$0.00	
11					\$0.00		\$0.00	
12					\$0.00		\$0.00	
<i>Total of Section 2</i>					\$0.00	<i>Section 2 MMSD \$ Reimbursement</i>	\$0.00	
Section 3: Totals								
<i>Total Project Costs (Section 1 + 2)</i>					\$150,000.00	<i>Total MMSD \$ Reimbursement</i>	\$150,000.00	
Requested Value of Funding Agreement: This value should be rounded to a significant digit appropriate to the current phase of the project (conceptual, planning, design, pre-construction, etc) and should equal the value entered in Work Plan Application Section II, Question 2 \$150,000.00								
Assumptions and Notes:								

FLOW METER ANALYSIS

VARIOUS SEWERSHEDS IN THE CITY OF MILWAUKEE

Activity	Date
Complete Funding Agreement	12/1/2023
Solicit Quotes from Consultants	12/1/2023
Award Contract	1/15/2024
Draft Report from Consultant for City Review	9/1/2023
Final Report to MMSD	12/1/2023

ATTACHMENT B
Funding Agreement Deliverables

Pre-Planning/Investigative Deliverables (To be submitted as indicated prior to beginning of construction):

1. A minimum of a one (1) week notice of any project meetings shall be provided to the District SPM via email. In the event the District is unable to attend and participate, detailed meeting minutes shall be provided within five (5) days of the meeting.
2. Consultant solicitation and results.
3. Copy of fully executed consultant agreement.

Planning/Investigative Deliverables (To be submitted as indicated and will be reviewed with any reimbursement request):

4. A minimum of a one (1) week notice of any project meetings shall be provided to the District PM via email. In the event the District is unable to attend and participate, detailed meeting minutes shall be provided within five (5) days of the meeting.

Post-Planning/Investigative Deliverables (To be submitted prior to final reimbursement being processed):

5. Final technical memorandum with private property recommendations and project presentations.