

Monday, February 26, 2024**6:00 PM****McFarland Municipal Center**
5915 Milwaukee St, McFarland
Community Room

AGENDA

The public may attend in-person or remotely through the Zoom webinar or telephone options listed below.

PLEASE CLICK THE LINK BELOW TO JOIN THE ZOOM WEBINAR:

<https://us02web.zoom.us/j/87543994777>

Or by Telephone: +1 (312) 626-6799

Webinar ID: 875 4399 4777

Press *9 to raise/lower hand. Press *6 to mute/unmute.

1. CALL TO ORDER, ROLL CALL.
2. PUBLIC APPEARANCES.
 - a. This is an opportunity for members of the public to address the Public Works and Utilities Committee for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Committee about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Committee should fill out a public comment form and turn into the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Committee for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to public.works@mcfarland.wi.us to be included as part of the meeting.

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.
3. APPROVAL OF MINUTES.
 - a. Motion to approve the minutes of the January 22, 2024 Public Works & Utilities Committee meeting.
4. BUSINESS.
 - a. Public Information Meeting regarding the 2024 Exchange Street project
 - b. Discussion and action to make a recommendation to the Village Board regarding the 2024 Street & Utility Improvements project and authorize the project for bid.
 - c. Discussion and action to make a recommendation to the Village Board regarding the MS4 Annual Report for 2023.
5. SCHEDULE NEXT MEETING DATE.
 - a. Monday, March 25, 2024, at 6:00 p.m.
6. ADJOURNMENT.

Any person who has a qualifying disability as defined by the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible location or format should contact the McFarland Municipal Center at (608)838-3153, 5915 Milwaukee Street, McFarland, Wisconsin, or village.clerk@mcfarland.wi.us by 2:00 p.m. at least 5 business days prior to the meeting so that any necessary arrangements can be made to accommodate each request. If the meeting or request is less than 5 business days from the meeting, requests for accommodations may still be made and reasonable efforts will be made to accommodate each request.

VILLAGE OF MCFARLAND
Public Works & Utilities Committee Minutes

Monday, January 22, 2024 - 6:00 PM

1. CALL TO ORDER, ROLL CALL.

Trustee Wreh called the regular meeting of the Public Works & Utilities Committee to order at 6:00 PM in the Community Room of the Municipal Center. This meeting was also held via Zoom webinar.

Members present: Edward Wreh, Chris Fredrick, Eric Kindschi, Matthew Coan, Marc Nielsen (in attendance; unable to vote due to technology issues)

Members not present: Hilary Brandt, Pauline Boness

Staff Present: Public Works Director Lee Igl, Assistant to the Public Works Director Aimee Irwin, Town & Country staff Brian Berquist and Tim Stieve

2. PUBLIC APPEARANCES.

- a. *This is an opportunity for members of the public to address the Public Works and Utilities Committee for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Committee about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Committee should fill out a public comment form and turn into the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Committee for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to public.works@mcfarland.wi.us to be included as part of the meeting.*

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.

None.

3. APPROVAL OF MINUTES.

- a. *Motion to approve the minutes of the December 20, 2023, Public Works & Utilities Committee meeting.*

Motion by Trustee Wreh, seconded by Fredrick, to approve the minutes of the December 20, 2023, Public Works & Utilities Committee meeting. Motion carries 4 - 0 - 0.

4. BUSINESS.

- a. *Discussion and action to make a recommendation to the Village Board regarding the award of contract for the 2024 Exchange Street project.*

Stieve provided an overview of the bid process through WisDOT. Stieve explained that WisDOT approved the award of contract to James Peterson Sons as the low bidder.

Motion by Trustee Wreh, seconded by Fredrick, to recommend approval to the Village Board regarding the award of contract to James Peterson Songs Inc. of Medford for an amount of \$4,021,987.94 for the reconstruction of Exchange Street including base bid with additional expenses for engineering, construction administration, and contingency for a total project cost in an amount of \$5,093,000. Motion carries 4 - 0 - 0.

b. Discussion and action to make a recommendation to the Village Board regarding the award of contract for the 2024 Lift Station 2 project.

Stieve provided an overview of the bid process and explained that bids opened on December 21, 2023. Stieve stated that while only one bid was received and the bid is comparable to other projects of similar nature that Town & Country is aware of.

- Fredrick asked if other bids were not received due to the level of risk. Stieve stated that bids were not received due to project size.
- Fredrick asked what the risks would be of not awarding the project. Stieve explained that this project market continues to experience price increases and while the project is not immediately needed, the update will be needed eventually for capacity.
- Trustee Wreh expressed his concerns regarding the expenses for the project being over the allocated revenue.
- Igl spoke about the discussions related to project scope reduction and expressed that reducing the scope would not necessarily decrease the total expense for the project.
- Stieve explained that the current steel canister is showing signs of rust and conditions which will warrant necessary replacement eventually, if the project is not moved forward. Berquist added that replacing the canister is estimated at \$300,000 but would only be replaced after a catastrophic event such as a flood.

Motion by Fredrick, seconded by Kindschi, to recommend approval to the Village Board regarding the award of contract to Portzen Construction, Inc. of Dubuque, IA in the amount of \$2,870,575 for the reconstruction of Lift Station #2 including base bid with additional expenses for engineering, construction administration, and contingency for a total project cost in an amount of \$3,564,000. Motion carries 3 - 1 - 0, with Trustee Wreh voting nay.

c. Discussion and action to make a recommendation to the Village Board regarding a proposal from Town & Country Engineering for design and construction engineering for the Lift Station 2 project.

Stieve provided an overview of the amendment to the proposal by Town & Country Engineering for construction engineering related to the Lift Station #2 project.

Motion by Trustee Wreh, seconded by Fredrick, to recommend approval to the Village Board regarding a proposal from Town & Country Engineering for construction engineering for the Lift Station 2 project not to exceed \$165,000. Motion carries 4 - 0 - 0.

5. SCHEDULE NEXT MEETING DATE.

a. Monday, February 26, 2024 at 6:00 p.m.

6. ADJOURNMENT.

Motion by Fredrick, seconded by Trustee Wreh, to adjourn at 6:28 p.m.

Pursuant to law, written notice of this meeting was given to the public and posted on the public bulletin board in accordance with Open Meetings Law.

Respectfully submitted,
Aimee Irwin
Assistant to the Public Works Director

McFarland
SUMMARY SHEET

MEETING DATE: Monday, February 26, 2024

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Lee Igl, Public Works Director

AGENDA ITEM: Public Information Meeting regarding the 2024 Exchange Street project

PREVIOUS ACTION:

The Public Works Committee:

- Recommended approval regarding the State Municipal Agreement (SMA) at their June 9, 2020, meeting.
- Discussed the project and recommended scheduling of a Public Information Meeting on February 16, 2021, at their January 12, 2021, meeting.
- Discussed the project and recommended scheduling of the next Public Information Meeting on October 12, 2021, at their July 13, 2021, meeting.

The Public Utilities Committee:

- Recommended approval regarding the State Municipal Agreement (SMA) at their June 16, 2020, meeting.
- Discussed the project and recommended scheduling of a Public Information Meeting on February 16, 2021, at their January 19, 2021, meeting.

Joint Public Works & Public Utilities Committees:

- A Public Information Meeting was held on February 16, 2021.

The Public Works & Utilities Committee:

- Update and discussion about the project on May 23, 2022. Committee members discussed updates related to driveway concerns on the north and south ends of the project corridor.
- Recommended scheduling of the next Public Information meeting on September 26, 2022, at their August 22, 2022, meeting.
- A Public Information Meeting was held on September 26, 2022.
- Recommended approval to the Village Board regarding the final plan set and authorized the project for bid on October 23, 2023.



- Recommended the award of contract on January 22, 2024.

The Village Board:

- Approved the final plan set and authorized the project for bid on December 21, 2023.

ISSUE SUMMARY:

Exchange Street Reconstruction will occur from Farwell Street to Sleepy Hollow Road in 2024. The project will include a full street reconstruction, addition of on-street bike lanes, a new sidewalk on the northern side of the road, and utility replacements. The Village is receiving grant funding for the project through the WisDOT Surface Transportation Program (STP). This project has been in design and development since 2019. The project has held multiple public information meetings throughout the design process. Regulatory agencies have approved all the project's cultural, historical, and environmental information. Detailed plan development, reporting documentation, and real estate documentation has been ongoing. This plan set was bid in December by WisDOT through their process with the project recommended for award to James Peterson Sons as the low bidder.

FINANCIAL/BUDGET IMPACT:

The 2024 Budget was approved to allocate \$4,872,750 for the contract award to construct the project. Additional funds up to \$225,000 were borrowed in prior years to fund design and consulting efforts.

Revenues - The following revenues have been allocated to fund the project by fund:

\$ 225,000	Capital Projects Fund (2021-2023 Note Issuance - Design and Consultant Services)
\$2,101,250	Capital Projects Fund (2024 Note Issuance)
\$1,177,000	State/Federal through MPO
\$1,039,750	Water Utility (2024/2025 Revenue Bond)
\$ 390,750	Stormwater Utility (2024 Note Issuance)
\$ 164,000	Sewer Utility (2022/2023 Revenue Bond)
\$5,097,750	Total Project Revenue

These are the amounts of monies budgeted for the project based on the engineer's estimate that were accepted in the 2024-2028 Capital Improvement Plan and approved in the 2024 Budget.

Expenses - The following is the cost breakdown for all known or anticipated costs to date:

\$4,021,988	Exchange Street Low Bid
\$ 11,000	Pre-construction Tree Removal
\$ 477,050	Design Engineering/Consulting
\$ 300,000	Construction Administration
\$ 81,890	Temporary Limited Easements (TLEs)
\$ 201,099	Contingency
\$ (27)	Rounding



\$5,093,000 Total Project Expense

The project as bid is projected to be under budget by a small margin as estimated by the Village Engineer with the bid received.

VILLAGE PLAN REFERENCE:

None.

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

No action is required on this item.

ATTACHMENTS:

None

**VILLAGE OF
McFarland
SUMMARY SHEET**

MEETING DATE: Monday, February 26, 2024

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Lee Igl, Public Works Director

AGENDA ITEM: Discussion and action to make a recommendation to the Village Board regarding the 2024 Street & Utility Improvements project and authorize the project for bid.

PREVIOUS ACTION:

None.

ISSUE SUMMARY:

This project involves pavement, street, and utility improvements along Ivywood Trail, Village Public Works Site, and Wisconsin Avenue. The scope of work at these locations is described as follows:

- Work at Ivywood Trail includes pulverizing of existing asphalt, pavement base repairs, spot curb and gutter replacement, and repaving. The project limits are from the intersection of Ivywood Trail and Terminal Drive to the northern termini of Ivywood Trail. The Village will be utilizing LRIP grant funds to help fund a portion of this project. The purpose of the work at this location is to repair failing pavement.
- Work at the Village Public Works site includes pavement removal and replacement, new concrete gutter, hydrant relocation, new pavement area installations, and the construction of a new bulk water filling station. The purpose of this work is to repair failing asphalt pavement, increase parking capacity at the site, and to construct a new bulk water filling station to help with the tracking and automation of bulk water purchases.
- Work at the Wisconsin Avenue location is located at the western termini of the street. This area is a location of recurring and problematic soil erosion at the location where water overtops the curb during high flow storm events and has required Village staff to make repairs sometimes multiple times in a year. The purpose of the work at this location will be to increase the capacity of the street inlets and to reconstruct the area to include a purposeful armored turf area for stormwater overflow during high flow storm events. This area also serves as a public lake access location and this work also includes improvements to the site landscaping and lake access. Work here includes casting adjustments, curb and gutter replacement, grading, turf armoring, and landscaping.

Enclosed are project exhibits and estimates for each portion of the project. Town & Country will provide an overview of the project during the meeting. Staff are recommending approval of the project and authorization for the project to go to bid.



FINANCIAL/BUDGET IMPACT:

Enclosed within the packet are cost estimates from Town & Country Engineering for each portion of the project.

- Ivywood Trail is estimated at an overall project budget of \$185,100.
- The Public Works parking lot is estimated at an overall project budget of \$201,843.
- Wisconsin Avenue Storm Sewer is estimated at an overall project budget of \$40,414.

VILLAGE PLAN REFERENCE:

[Long Range Capital Improvement Plan](#)

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Recommended action:

Motion and second to recommend approval to the Village Board regarding the 2024 Street & Utility Improvements project and to authorize the project for bid.

ATTACHMENTS:

1. Ivywood Trail Resurfacing
2. Ivywood Trail Estimate
3. MC 221 Public Works Parking Lot
4. Public Works Parking Lot Estimate
5. Wisconsin Ave Storm Sewer
6. Wisconsin Avenue Storm Sewer Estimate

2024 Street and Utility Improvements
Village of McFarland
Ivywood Trail Resurfacing

4,473.57 sq yd

N

0

15

30

60

Feet

tc

TOWN & COUNTRY
ENGINEERING, INC.

6264 Nesbitt Road
Madison, WI 53719
(608) 273-3350
www.tcengineers.net

Town & Country Engineering, Inc. makes no representation regarding the accuracy or completeness of this map and its underlying data. Any use or reuse of this map will be at your own risk and without liability or legal exposure to Town & Country Engineering, Inc. Not to be used for utility marking for purposes of Digger's Hotline.

Date: 2/21/2024

Path: J:\JOBS\McFarland\MC-00-00\Mapping\ArcGIS Pro Working Map\McFarland Working Map.aprx

CLIENT NAME:	Village of McFarland
PROJECT NAME:	Long Range CIP
	Various Streets
DATE OF ESTIMATE:	9/9/2023

			Unit Prices															
Street Name	From	To	Length	Avg. Width	Area (syd)	\$ 3.50	\$ 78.00	\$ 0.50	\$ 80.00	\$ 50.00	\$ 45.00	\$ 650.00			13%	10%		
						pulverize	1.75" Binder	Tack	1.5" Surface	Curb R&R (30%)	Base Repair (25%)	Markings	Casting Adj.	Subtotal	Eng	Contingency	Estimated Cost	
Ivywood Trail	Terminal Drive	Termini	1170	36	4680	\$ 16,380.00	\$ 36,732.15	\$ 2,340.00	\$ 32,292.00	\$ 17,550.00	\$ 42,120.00		\$ 3,042.00	\$ 150,456.15	\$ 19,559.30	\$ 15,045.62	\$ 185,100	



tc TOWN & COUNTRY ENGINEERING, INC.	PUBLIC WORKS SITE IMPROVEMENTS		2024 STREET AND UTILITY IMPROVEMENTS Ivywood Trail, Public Works Site, Wisconsin Ave Village of McFarland, Wisconsin	
	6264 Nesbitt Road Madison, WI 53719 (608) 273-3350 www.tcengineers.net		PROJECT NO.: MC 221 DRAWING FILE: MC 221 BASE.DWG DRAWN BY: T.J.S. CHECKED BY: B.R.B. DATE: 2-20-24 REVISIONS: SCALE: 0 5 10 20 SHEET: 1	

STREET IMPROVEMENTS COST ESTIMATE

CLIENT NAME:
PROJECT NAME:

Village of McFarland
Public Works
Resurface Asphalt Parking Lot
February 21, 2024

DATE OF ESTIMATE:

PHYSICAL ASSUMPTIONS:

Existing Parking Lot Area, Sq. Yds.	3095.114
Average Base Repl. Req'd Depth, Inches:	3
2.5" Asphalt Driveway or Parking Area, Sq. Yds:	3095.114
Perimeter requiring Topsoiling, Feet:	300
Width of Topsoiling, Each Side, Feet:	2
Sawcutting Length, Feet:	200
Asphalt Safety Factor:	1.1

COST ASSUMPTIONS:

Bad Subbase Excavation Cost, Per Cu. Yd.:	\$22.00
Bad Subbase Replac. Br. Run Cost, Per Ton:	\$20.00
3/4" Crushed Aggregate Cost, Per Ton:	\$20.00
Parking Lot Pavement Cost, Per Sq. Yd.	\$20.00
Topsoil Restoration Cost, Per Sq. Yd.:	\$3.00
Seeding, Fertilizing & Mulching Cost, Per Sq. Yd.:	\$3.00
Sawcutting Cost, Per Lineal Foot:	\$4.00
Erosion Control Allowance, Lump Sum:	\$1,500.00
Traffic Control Allowance, Lump Sum:	\$1,500.00

Assumptions

1. Ex. gravel base can be regraded and reused

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost
Mobilization, Bonds & Insurances	1 l.s.	\$5,808 l.s.	\$5,808
Removal & Disposal of Existing Asphalt	3095.114 s.y.	\$5.00 /s.y.	\$15,476
Grading of Existing Base Course	3095.114 c.y.	\$4.00 /c.y.	\$12,380
Excavation of Bad Materials Below Ex. Base	258 c.y.	\$22.00 /c.y.	\$5,676
3" Breaker Run Replacement of Bad Subbase	258.5 tons	\$20.00 /ton	\$5,170
3/4" Crushed Aggregate Base Course	258.5 tons	\$20.00 /ton	\$5,170
Sawcutting	200 l.f.	\$4.00 /l.f.	\$800
Asphalt Parking Lot	3404.6254 s.y.	\$20.00 /s.y.	\$68,093
Topsoil Restoration	67 s.y.	\$3.00 /s.y.	\$201
Seeding, Fertilizing & Mulching	67 s.y.	\$3.00 /s.y.	\$201
Erosion Control	1 l.s.	\$1,500.00 l.s.	\$1,500
Signing and Traffic Control	1 l.s.	\$1,500.00 l.s.	\$1,500
Bulk Filling Station and Plumbing Work	1 l.s.	\$30,000.00 l.s.	\$30,000
30" Curb and Gutter	85 l.f.	\$25.00 /l.f.	\$2,125
Hydrant and Valve Relocation	1 l.s.	\$10,000.00 l.s.	\$10,000

CONSTRUCTION SUBTOTAL

Engineering	@	13 %	\$21,333
Contingency	@	10 %	\$16,410

TOTAL

\$201,843

**2024 Street and Utility Improvements
Village of McFarland
Wisconsin Avenue Storm Sewer**

Existing Storm Outfall

Wisconsin Ave

Existing Inlet (Typ.)

Card Ave

N

0 4.25 8.5 17

Feet

tc TOWN & COUNTRY
ENGINEERING, INC.

6264 Nesbitt Road
Madison, WI 53719
(608) 273-3350
www.tcengineers.net

Town & Country Engineering, Inc. makes no representation regarding the accuracy or completeness of this map and its underlying data. Any use or reuse of this map will be at your own risk and without liability or legal exposure to Town & Country Engineering, Inc. Not to be used for utility marking for purposes of Digger's Hotline.

Date: 2/21/2024

Path: J:\JOBS\McFarland\MC-221-M 2024 Street and Utility Improvements\7. Drawings\GIS\2024 Street and Utility Improvements.aprx



Reconstruct
Pedestrian Lake Access
Stairway

Create new low
point and swale in
landscape

PEDESTRIAN
ACCESS ONLY

Raise Casting Rim

Raise Casting Rim

Raise Casting Rim

Create new low point in
top of curb for overflow

Turf Reinforcement
in overflow swale



Ongoing erosion issue

Current Overflow Path



ACCESS ONLY

Existing Pedestrian
Access Steps

Ongoing erosion issue

Current Low Point and
Overflow Path

Storm Sewer Estimate

CLIENT NAME:
PROJECT NAME:
DATE OF ESTIMATE:

Village of McFarland
2024 Street and Utility Improvements
Wisconsin Avenue Storm Sewer
February 21, 2024

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost
12" Dia. Class V RCP Storm Sewer	lin. ft.	\$70.00 /lin. ft.	\$0
15" Dia. Class IV RCP Storm Sewer	lin. ft.	\$75.00 /lin. ft.	\$0
18" Dia. Class III RCP Storm Sewer	lin. ft.	\$72.00 /lin. ft.	\$0
24" Dia. Class III RCP Storm Sewer	lin. ft.	\$85.00 /lin. ft.	\$0
Street Inlets, Including Castings	each	\$2,000.00 each	\$0
Street Inlet Castings	3 each	\$1,500.00 each	\$4,500
Storm Sewer Manhole, Including Castings	each	\$2,400.00 each	\$0
Area Inlets, Including Castings	each	\$1,800.00 each	\$0
12" RCP Apron Endwalls	each	\$1,500.00 each	\$0
15" RCP Apron Endwalls, With Grates	each	\$1,800.00 each	\$0
18" RCP Apron Endwalls, With Grates	each	\$2,400.00 each	\$0
24" RCP Apron Endwalls, With Grates	each	\$3,000.00 each	\$0
Topsoil Restoration, Seeding, Fertilizing & Mulching Allowance	66.66667 sq. yd.	\$5.50 /sq. yd.	\$367
Other Erosion Control	1 lump sum	\$1,500.00 lump sum	\$1,500
Lanscaping and Access Allowance	1 lump sum	\$15,000.00 lump sum	\$15,000
Remove and Replace 30" Curb and Gutter	50 lin. ft.	\$45.00 /lin. ft.	\$2,250
Turf and Slope Reinforcement	1 lump sum	\$7,000.00 lump sum	\$7,000

CONSTRUCTION SUBTOTAL

Basic Design Eng. & Const. Admin.	@ 13 %	\$30,617
Resident Inspection	@ 4 %	\$3,980
Contingency	@ 15 %	\$1,225
		\$4,593

TOTAL

\$40,414

VILLAGE OF
McFarland
SUMMARY SHEET

MEETING DATE: Monday, February 26, 2024

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Lee Igl, Public Works Director

AGENDA ITEM: Discussion and action to make a recommendation to the Village Board regarding the MS4 Annual Report for 2023.

PREVIOUS ACTION:

None.

ISSUE SUMMARY:

Attached is the 2023 draft annual report for our Municipal Separate Storm Sewer System, otherwise known as an MS4 Permit. As part of the report, our Adaptive Management to Achieve TMDL Compliance and the village's stormwater system map are included. This report is a DNR mandate that we have been submitting for several years. The permit governs storm water management practices in the Village and allows our discharge to area waterways. The Village remains compliant with these measures. The report is prepared by the village engineer, village staff and the staff of MAMSWaP and is presented for approval.

Staff are seeking the committee's recommendation for approval to the Village Board. After approval by the Village Board, the report will be electronically submitted to the DNR. The report is required to be completed and submitted by March 31, 2024.

FINANCIAL/BUDGET IMPACT:

None.

VILLAGE PLAN REFERENCE:

None.

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Recommended motion:

Motion, second to recommend approval to the Village Board regarding the 2023 MS4 Annual report as presented.

ATTACHMENTS:

1. MS4 DRAFT 02.22.24
2. AdaptiveManagementPlanSummary 2024



3. McFarland MS4 Program Plan 02.22.24
4. McFarland SWPPP 2024
5. MS4 Map 3-2-22

Submittal of Annual Reports and Other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is **deleted**.

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Form 3400-224(R8/2021)

Reporting Information :

Will you be completing the Annual Report or other submittal type? ☒ Annual Report ☐ Other

Project Name: 2023 Annual Report

County: Dane

Municipality: McFarland Village

Permit Number: S058416

Facility Number: 30905

Reporting Year: 2023

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable? ☐ Yes ☒ No

Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) [Exit Form]
- Complete all required fields on the annual report form and upload required attachments
- Attach the following other supporting documents as appropriate using the attachments tab above
 - Public Education and Outreach Annual Report Summary
 - Public Involvement and Participation Annual Report Summary
 - Illicit Discharge Detection and Elimination Annual Report Summary
 - Construction Site Pollution Control Annual Report Summary
 - Post-Construction Storm Water Management Annual Report Summary
 - Pollution Prevention Annual Report Summary
 - Leaf and Yard Waste Management
 - Municipal Facility (BMP) Inspection Report
 - Municipal Property SWPPP
 - Municipally Property Inspection Report
 - Winter Road Maintenance
 - Storm Sewer Map Annual Report Attachment
 - Storm Water Quality Management Annual Report Attachment

- TMDL Attachment
 - Storm Water Consortium/Group Report
 - Municipal Cooperation Attachment
 - Other Annual Report Attachment
- Attach the following permit compliance documents as appropriate using the attachments tab above
- Storm Water Management Program
 - Public Education and Outreach Program
 - Public Involvement and Participation Program
 - Illicit Discharge Detection and Elimination Program
 - Construction Site Pollutant Control Program
 - Post-Construction Storm Water Management Program
 - Pollution Prevention Program
 - Municipal Storm Water Management Facility (BMP) Inventory
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan
 - Total Maximum Daily Load documents (**If applicable, see permit for due dates.*)
 - TMDL Mapping*
 - TMDL Modeling*
 - TMDL Implementation Plan*
 - Fecal Coliform Screening Parameter *
 - Fecal Coliform Inventory and Map (*S050075-03 general permittees Appendix B B.5.2 – document due to the department by March 31, 2022*)
 - Fecal Coliform Source Elimination Plan (*S050075-03 general permittees Appendix B - document due to the department by October 31, 2023*)
- Sign and Submit form

Municipal Contact Information- Complete

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Note: Compliance items must be submitted using the Attachments tab.

Municipality Information

Name of Municipality McFarland Village

Facility ID # or (FIN): 30905

Updated Information: ☒ Check to update mailing address information

Mailing Address: 5915 Milwaukee St

Mailing Address 2:

City: McFarland Village

State: WI

Zip Code: 53558-0110 xxxxx or xxxxx-xxxx

Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

The "Authorized Representative" or "Authorized Municipal Contact" includes the municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the Department (i.e., Mayor, Municipal Administrator, Director of Public Works, City Engineer).

☐ Select to **create new** primary contact

First Name: Lee

Last Name: Igl

☒ Select to **update** current contact information

Title: Dir. of Public Works

Mailing Address: 5115 Terminal Dr

Mailing Address 2:

City: McFarland

State: WI

Zip Code: 53558-0110 xxxxx or xxxxx-xxxx

Phone Number: 608-838-7287 Ext: xxx-xxx-xxxx

Email: lee.igl@mcfarland.wi.gov

Additional Contacts Information (Optional)

☐ I&E Program

Individual with responsibility for:
(Check all that apply)

- ☐ IDDE Program
- ☐ IDDE Response Procedure Manual
- ☐ Municipal-wide Water Quality Plan
- ☐ Ordinances
- ☐ Pollution Prevention Program
- ☐ Post-Construction Program
- ☐ Winter roadway maintenance

First Name:

Last Name:

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code:

 xxxxx or xxxxx-xxxx

Phone Number:

 Ext: xxx-xxx-xxxx

Email:

Municipal Billing Contact Person (Authorized Representative for MS4 Permit)

☒ Select to **create new** Billing contact

First Name:

Last Name:

☒ Select to **update** current contact information

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code:

 xxxxx or xxxxx-xxxx

Phone Number:

 Ext: xxx-xxx-xxxx

Email:

1. Does the municipality rely on another entity to satisfy some of the permit requirements?

☐ Yes ☒ No

2. Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

☐ Yes ☒ No

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (R8/2021)

Minimum Control Measures- Section 1 : Complete

1. Public Education and Outreach

- Does MS4 conduct any educational efforts or events independently (not with a group) ☒ Yes ☐ No
- How many total educational events were held during the reporting year:
- Were any of the public education and outreach delivery mechanisms conducted during the reporting year active or interactive? ☒ Yes ☐ No
- Please select all storm water topics, target audiences, and delivery mechanisms used in the reporting year

Public Education and Outreach Delivery Mechanisms (Active and Passive)	
Active/Interactive Mechanisms	Passive Mechanisms
☒ Education activities (school presentations, summer camps) ☐ Information booth at event ☒ Targeted group training (contractors, consultants, etc.) ☒ Government event (public hearing, council meeting) ☒ Workshops ☐ Tours ☐ Other:	☒ Passive print media (brochures at front desk, posters, etc.) ☒ Distribution of print media (mailings, newsletters, etc.) via mail or email. ☐ Media offerings (radio and TV ads, press release, etc.) ☒ Social media posts ☐ Signage ☒ Website ☐ Other:

Topics Covered	Target Audience
☒ Illicit discharge detection and elimination ☒ Household hazardous waste disposal/pet waste management/vehicle washing ☒ Yard waste management/pesticide and fertilizer application ☒ Stream and shoreline management ☒ Residential infiltration ☒ Construction sites and post-construction storm water management ☒ Pollution prevention ☒ Green infrastructure/low impact development ☐ Other:	☒ General Public ☒ Public Employees ☒ Residents ☒ Businesses ☒ Contractors ☒ Developers ☒ Industries ☒ Public Officials ☐ Other:

- Will additional information/summary of these education events be attached to the annual report?
☐ Yes ☒ No

If no, please provide additional comment in the brief explanation box below. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Various articles regarding above topics are included in newsletter, posted on the website, and on social media.

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. Permit Activities. Select all of the following topics the Permittee did to engage public participation and involvement.

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☒ MS4 Annual Report ☒ Storm Water Management Program ☒ Storm Water related ordinance ☐ Other: 	☒ General Public ☐ Public Employees ☒ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☒ Public Officials ☐ Other	<u>11-50</u>	☐ Yes ☒ No

b. Volunteer Activities. Select all of the following audiences targeted for volunteer involvement and participation related to storm water.

☐ NA (Individual Permittee)

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	☒ General Public ☐ Public Employees ☒ Residents ☒ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Public Officials ☐ Other	<u>11-50</u>	☒ Yes ☐ No

c. Brief explanation on Public Involvement and Participation reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

The Village published information about and noted resident participation in the Adopt-A-Storm Drain Program

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 3 : Complete

3. Illicit Discharge Detection and Elimination

- a. How many total outfalls does the municipality have?
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?
- c. From the municipality's routine screening, how many were confirmed illicit discharges?
- d. How many illicit discharge complaints did the municipality receive?
- e. From the complaints received, how many were confirmed illicit discharges?
- f. How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)?

(If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)

- g. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.

- | | |
|---|--------------------------------|
| ☒ Verbal Warning | <input type="text" value="0"/> |
| ☒ Written Warning (including email) | <input type="text" value="0"/> |
| ☒ Notice of Violation | <input type="text" value="0"/> |
| ☒ Civil Penalty/ Citation | <input type="text" value="0"/> |

Additional Information:

- h. Brief explanation on Illicit Discharge Detection and Elimination reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 4 : Complete

4. Construction Site Pollutant Control

- a. How many total construction sites with one acre or more of land disturbing construction activity were active at any point in the reporting year?
- b. How many construction sites with one acre or more of land disturbing construction activity did the municipality issue permits for in the reporting year?
- c. How many erosion control inspections did the municipality complete in the reporting year (at sites with one acre or more of land disturbing construction activity)?
- d. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.
- | | |
|---|--------------------------------|
| ☒ Verbal Warning | <input type="text" value="0"/> |
| ☒ Written Warning (including email) | <input type="text" value="0"/> |
| ☒ Notice of Violation | <input type="text" value="0"/> |
| ☒ Civil Penalty/ Citation | <input type="text" value="0"/> |
| ☒ Stop Work Order | <input type="text" value="0"/> |
| ☒ Forfeiture of Deposit | <input type="text" value="0"/> |
| ☐ Other - Describe below | <input type="text"/> |
- e. Brief explanation on Construction Site Pollutant Control reporting . *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*
-

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 5 : Complete

5. Post-Construction Storm Water Management

- a. How many new structural storm water management Best Management Practice (BMP) have received local approval ?
*Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement,
- b. Does the MS4 have procedures for inspecting and maintaining private storm water facilities? ☒ Yes ☐ No
- c. If Yes, how many privately owned storm water management facilities were

inspected in the reporting year ? Inspections completed by private landowners should be included in the reported number.

0

- d. Does the municipality utilize privately owned storm water management BMP in its pollutant reduction analysis? ☐ Yes ☒ No
- e. Does MS4 have maintenance authority on these privately owned BMPs?
- f. How many municipally operated (private) storm water management BMPs were inspected in the reporting year?
- g. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year.
- | | |
|---|--------------------------------|
| ☒ Verbal Warning | <input type="text" value="0"/> |
| ☒ Written Warning (including email) | <input type="text" value="0"/> |
| ☒ Notice of Violation | <input type="text" value="0"/> |
| ☒ Civil Penalty/ Citation | <input type="text" value="0"/> |
| ☒ Forfeiture of Deposit | <input type="text" value="0"/> |
| ☒ Complete Maintenance | <input type="text" value="0"/> |
| ☒ Bill Responsible Party | <input type="text" value="0"/> |
| ☐ Other - Describe below | <input type="text"/> |
- e. Brief explanation on Post-Construction Storm Water Management reporting . *If marked 'Unsure' on any questions above, justify your reasoning. Limit your response to 250 characters and/or attach supplemental information on the attachments page.*

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 6 : Has Missing Items

6. Pollution Prevention

Storm Water Management Best Management Practice Inspections ☐ Not Applicable

- a. Enter the total number of municipally owned or operated (i.e., privately owned BMPs) structural storm water management best management practices.

- b. How many new municipally owned storm water management best management practices were installed in the reporting year?
- c. How many municipally owned (public) storm water management best management practices were inspected in the reporting year?
- d. What elements are looked at during inspections (250 character limit)?
- e. How many of these facilities required maintenance?
- f. Brief explanation on Storm Water Management Best Management Practice inspection reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Public Works Yards & Other Municipally Owned Properties that require a stormwater pollution prevention plan (SWPPP)* ☐ Not Applicable

- g. How many municipal properties require a SWPPP?
- h. How many inspections of municipal properties have been conducted in the reporting year?
- i. Have amendments to the SWPPPs been made?
☐ Yes ☒ No
- j. If yes, describe what changes have been made. Limit response to 250 characters and/or attach supplemental information on the attachment page:
- k. Brief explanation on Storm Water Pollution Prevention Plan reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

* Any municipally owned property that has the potential to generate stormwater pollution should have a SWPPP. For example, if a municipal property stores compost piles, material storage, yard wastes, etc., outside and can contaminate stormwater runoff—a SWPPP is required.

Collection Services - *Street Sweeping Program* ☐ Not Applicable

- l. Did the municipality conduct street sweeping during the reporting year?
☒ Yes ☐ No
- m. If known, how many tons of material was removed?
- n. Does the municipality have a [low hazard exemption](#) for this material? ☐ Yes ☒ No
- o. If street sweeping is identified as a storm water best management practice in the

pollutant loading analysis, was street cleaning completed at the assumed frequency?

- ☒ Yes - Explain frequency Weekly, Yes
- ☐ No - Explain _____
- ☐ Not Applicable

Collection Services - *Catch Basin Sump Cleaning Program* ☐ Not Applicable

- p. Did the municipality conduct catch basin sump cleaning during the reporting year? ☒ Yes ☐ No
- q. How many catch basin sumps were cleaned in the reporting year?
- r. If known, how many tons of material was collected?
- s. Does the municipality have a low hazard exemption for this material? ☐ Yes ☒ No
- t. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?
- ☐ Yes- Explain frequency _____
- ☐ No - Explain _____
- ☒ Not Applicable

Collection Services - *Leaf Collection Program* ☐ Not Applicable

- u. Does the municipality conduct curbside leaf collection? ☐ Yes ☒ No
- v. Does the municipality notify homeowners about pickup? ☒ Yes ☐ No
- w. Where are the residents directed to store the leaves for collection?
- ☐ Pile on terrace ☐ Pile in street ☐ Bags on terrace
- ☒ Other - Describe Residents bring material to the compost site at PW
- x. What is the frequency of collection?
- N/A
- y. Is collection followed by street sweeping? ☐ Yes ☒ No
- z. Brief explanation on Collection Services reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page*
-

Winter Road Management ☐ Not Applicable

*Note: We are requesting information that goes beyond the reporting year, answer the best you can.

- aa. How many lane-miles of roadway is the municipality responsible for doing snow and ice control? (*One mile of a two-way road equals two lane miles.*)
- ab. Provide amount of de-icing products used by month last winter season?
- Solids (tons) (ex. sand, or salt-sand)

Product

Oct

Nov

Dec

Jan

Feb

Mar

<u>Salt</u>	0	50	50	75	0
-------------	---	----	----	----	---

Liquids (gallons) (ex. brine)

	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>
<u>Brine</u>	0	0	250	1250	500	250

ac. Was salt applying machinery calibrated in the reporting year? ☒ Yes ☐ No

ad. Have municipal personnel attended salt reduction strategy training in the reporting year? ☒ Yes ☐ No

<i>Training Date</i>	<i>Training Name</i>	<i># Attendance</i>
8/17/2023	Saltwise Course 2023	3

ae. Brief explanation on Winter Road Management reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page*

Salt use strategies and reduction course for 2023

Internal (Staff) Education & Communication

af. Has the municipality provided an opportunity for internal training or education to staff implementing the municipality's procedures for each of the pollution prevention program element? ☒ Yes ☐ No

If yes, describe what training was provided (250 character limit):

Snow Plow Rodeo, Winter Maintenance Management

ag. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs, procedures and pollution prevention program requirements.

Elected Officials

Newsletter and approval of MS4 Annual Report

Municipal Officials

Newsletter and approval of MS4 Annual Report

Appropriate Staff (such as operators, Department heads, and those that interact with public)

Newsletter and approval of MS4 Annual Report

ah. Brief explanation on Internal Education reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Minimum Control Measures - Section 7 : Complete

7. Storm Sewer System Map

- a. Did the municipality update their storm sewer map this year?

☒ Yes ☐ No

If yes, check the areas the map items that got updated or changed:

☒ Storm water treatment facilities

☒ Storm pipes

☐ Vegetated swales

☐ Outfalls

☐ Other - Describe below

- b. Brief explanation on Storm Sewer System Map reporting. *If you marked Unsure for an question for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

Final Evaluation - Complete**Fiscal Analysis**

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	Budget Reporting Year	Budget Upcoming Year	Source of Funds
---	--------------------------	----------------------------	-----------------

Element: Public Education and Outreach

50558	63539	69066	<u>Storm water utility</u>
-------	-------	-------	----------------------------

Element: Public Involvement and Participation

22092	27764	30179	<u>Storm water utility</u>
-------	-------	-------	----------------------------

Element: Illicit Discharge Detection and Elimination

28656	36014	39146	<u>Storm water utility</u>
-------	-------	-------	----------------------------

Element: Construction Site Pollutant Control

63750	80118	87087	<u>Storm water utility</u>
-------	-------	-------	----------------------------

Element: Post-Construction Storm Water Management

284351	357359	388444	<u>Storm water utility</u>
--------	--------	--------	----------------------------

Element: Pollution Prevention

181783	228456	248328	<u>Storm water utility</u>
--------	--------	--------	----------------------------

Other (describe)

			<u>Select...</u>
--	--	--	------------------

Please provide a justification for a "0" entered in the Fiscal Analysis. *Limit response to 250 characters.*

Water Quality

a: Were there any known water quality improvements in the receiving waters to which the

municipality's storm sewer system directly discharges to?

☐ Yes ☒ No ☐ Unsure If Yes, explain below:

b: Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

☐ Yes ☒ No ☐ Unsure If Yes, explain below:

c: Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

☐ Yes ☒ No ☐ Unsure

d: Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

☒ Yes ☐ No ☐ Unsure

Storm Water Quality Management

a. Has the municipality completed or updated modeling in the reporting year (relating to developed urban area performance standards of s. NR 151.13(2)(b)1., Wis. Adm. Code)? ☐ Yes ☒ No

b. If yes, enter percent reduction in the annual average mass discharging from the entire MS4 to surface waters of the state as compared to implementing no storm water management controls:

Total suspended solids (TSS)

Total phosphorus (TP)

Status of Total Maximum Daily Loads (TMDLs) Implementation

The permittee McFarland Village is subject to the following approved TMDLs: Rock River Basin and/or and/or Beaver Dam Lake

The permittee intends to comply with the following permit requirements to show progress towards meeting the TMDL:

[A.3.2] The Permittee is participating in an approved Adaptive Management Project.

Attach a summary of adaptive management implementation actions for the reporting year, including:

- Most recent estimated pollutant of concern percent reduction levels (i.e. total phosphorus and total suspended solids/ sediment), as compared to no controls by reachshed, within the permittee's MS4 permitted area.
- Pollutant of concern percent reduction levels, as compared to no controls by reachshed, which the permittee intends to ultimately achieve within its own MS4 permitted area (not associated with AM buy-in).
- The financial dollar value contributed to an AM program for the reporting year.
- Identify any additional storm water measures that were initially implemented in the reporting year, which reduce the discharge of pollutants of concern from its MS4 permitted area (not associated with AM buy-in). If available, identify the incremental percent reduction gained by such measures relative to the MS4 permitted area.

Additional Information

Based on the municipality's storm water program evaluation, describe any proposed changes to the

municipality's storm water program. *If your response exceeds the 250 character limit, attach supplemental information on the attachments page.*

Do not close your work until you SAVE.

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Form 3400-224 (R8/2021)

Requests for Assistance on Understanding Permit Programs

Would the municipality like the Department to contact them about providing more information on understanding any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- ☐ Public Education and Outreach
- ☐ Public Involvement and Participation
- ☐ Illicit Discharge Detection and Elimination
- ☐ Construction Site Pollutant Control
- ☐ Post-Construction Storm Water Management
- ☐ Pollution Prevention
- ☐ Storm Water Quality Management
- ☐ Storm Sewer System Map
- ☐ Water Quality Concerns
- ☐ Compliance Schedule Items Due
- ☐ MS4 Program Evaluation

Do not close your work until you **SAVE**.

Form 3400-224(R8/2021)

Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

***Required Item**

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

Storm Sewer System Map

 File Attachment

Adaptive Management Summary

 File Attachment

Attach - Other Supporting Documents

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

Attach - Permit Compliance Documents

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

Missing Information

Draft and Share PDF Report with the permittee's governing body or delegated representatives.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been reviewed by the governing body or delegated representative, return to the MS4 eReporting System to submit the final report to the DNR.

[Draft and Share PDF Report](#)

Form 3400-224(R8/2021)

Complete and Submit Your Application

You have not completed all areas of the application. Please return to the application and complete all missing items.

Contact Information: [Complete](#)

Minimum Control Measures Section 1: [Complete](#)

Minimum Control Measures Section 2: [Complete](#)

Minimum Control Measures Section 3: [Complete](#)

Minimum Control Measures Section 4: [Complete](#)

Minimum Control Measures Section 5: [Complete](#)

Minimum Control Measures Section 6: [Has Missing Items](#)

Minimum Control Measures Section 7: [Complete](#)

Attachments: [Has Missing Items](#)

Final Evaluation: [Complete](#)

Summary of Adaptive Management Participation to Achieve TMDL Compliance

Village of McFarland 2023 Annual Report

This summary documents the Village's progress to date towards meeting the water quality goals required by the Rock River TMDL, and the Village's plan to meet those goals through participation in the Yahara WINS Adaptive Management program. The Village's MS4 permit requires that the following information be included in the annual report:

1. Most recent estimated pollutant of concern percent reduction levels (i.e. total phosphorus and total suspended solids/ sediment), as compared to no controls by reachshed, within the permittee's MS4 permitted area.
2. Pollutant of concern percent reduction levels, as compared to no controls by reachshed, which the permittee intends to ultimately achieve within its own MS4 permitted area (not associated with Adaptive Management buy-in).
3. The financial dollar value contributed to an Adaptive Management program for the reporting year.
4. Identify any additional storm water measures that were initially implemented in the reporting year, which reduce the discharge of pollutants of concern from its MS4 permitted area (not associated with Adaptive Management buy-in). If available, identify the incremental percent reduction gained by such measures relative to the MS4 permitted area.

1. Estimated Pollutant Reduction Levels

The Village's WinSLAMM model is used for estimating the pollutant loading and reduction. The most recent update of the Village's WinSLAMM model was performed in 2016 for the purposes of participation in the adaptive management program. The Village currently achieves a 47% reduction in TSS and a 35% reduction of TP. This meets the permit requirements of 40%/27% TSS and TP reductions respectively. A more detailed summary table of these reductions by watershed is attached in Appendix A.

2. Pollutant Reduction Level Goals

Additional pollutant level reduction goals are set by the Rock River Basin TMDL (Rock River Recovery). Within this TMDL, the Village's MS4 is in the Yahara River and Lake Kegonsa Watershed (LR06) and discharges to Reach 66 (Yahara River, Lake Waubesa, Lake Kegonsa). The Rock River TMDL sets the ultimate reduction level goals of 62%/54% TSS and TP reductions respectively.

The Village intends to continue to make improvements in TSS and TP reduction levels through a combination of efforts, including but not limited to the following:

- Maintenance of existing stormwater system and controls.
- Post-construction stormwater standards set by municipal ordinance for both TSS reduction and volume control for redevelopment sites that exceed the WDNR-set uniform state standards for redevelopment post-construction stormwater management.
- Continued improvement of the Village's leaf management program.
- Continued improvement to the Village's sweeping program where practicable.

3. Adaptive Management Financial Contribution

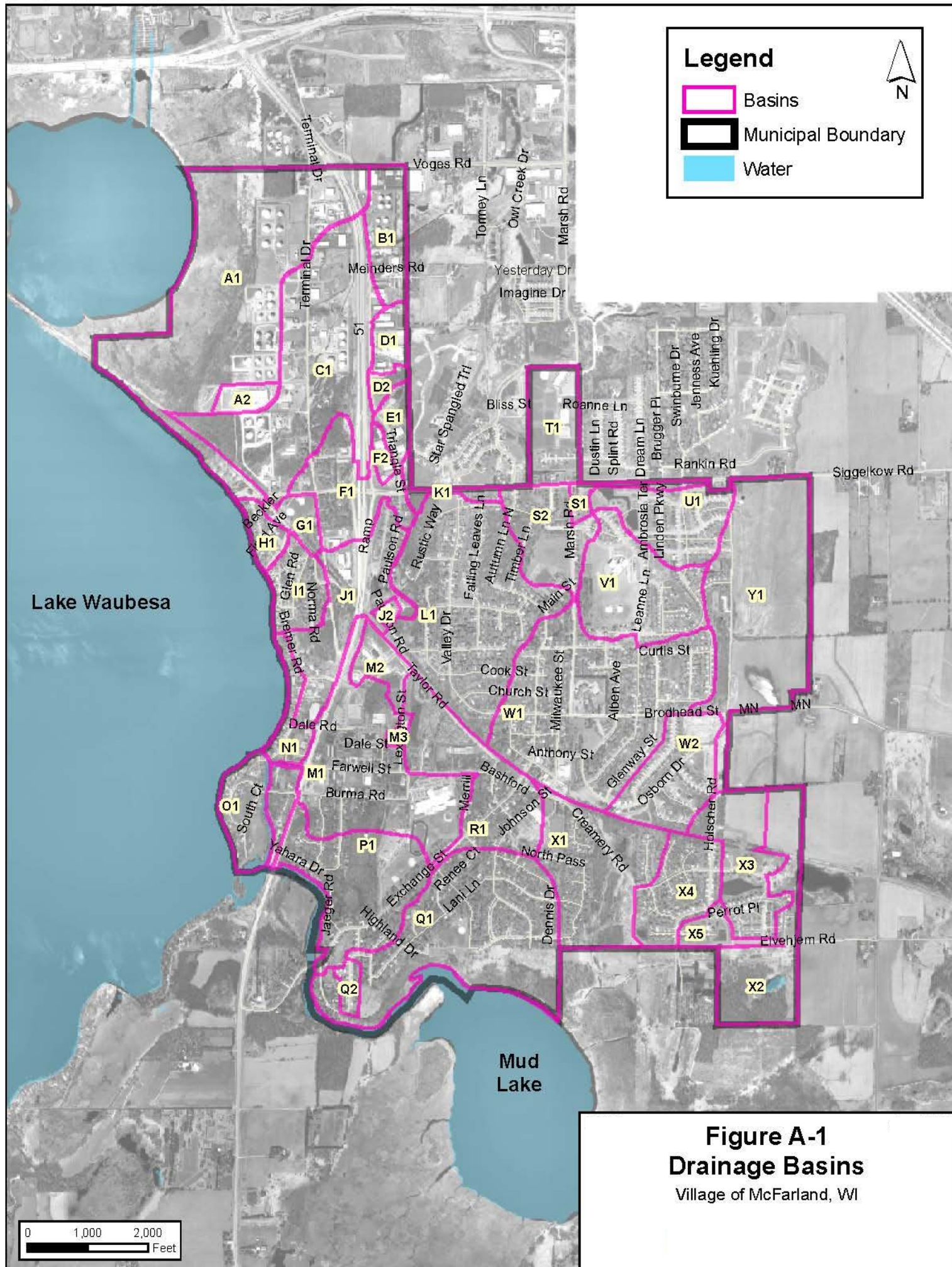
An invoice record of the Village's annual payment to the adaptive management program is attached in Appendix B.

4. New Storm Water Measures

No new municipally-owned storm water measures were installed in the reporting year which would be relevant to the Village's stormwater modeling.

APPENDIX A

Summary of Modeling Results															
Watershed Characteristics			Total Suspended Solids (TSS)			Total Phosphorous			Stormwater BMPs employed*						
Drainage Area (label)	Area (acres)	Primary Land Use	Discharge No Controls (pounds)	Discharge with Controls (pounds)	TSS Control (%)	Discharge no controls (pounds)	Discharge with controls (pounds)	P control (%)	Source Area Control Practice 1	Drainage Area Control Practice 1	Drainage Area Control Practice 2	Drainage Area Control Practice 3	Drainage Area Control Practice 4	Description of BMPs	
A1	62.5	MI	31515.6	21345	32%	58	46.82	20%	SC	CB	OD-Pond (80% efficient)			Wetpond at 84 Lumber	
A2	10.3	LI	6557	2351	64%	58.76	30.87	47%		GS	OD - Pond (55%)			High Track Pond	
B1	26.9	MI, R	16044.6	12073.4	25%	29.3	23.18	21%	SC	CB	OD- Pond (40%)			Voges Road Pond	
C1	74.4	MI	36760	28330	23%	70.86	56.72	20%		GS	OD - Pond (40%)			84 Lumber Pond	
D1	13.8	LI	8023	1933.4	76%	14.786	6.898	53%	SC	CB	GS	OD - Pond (69%)		Commerce Park Pond 4	
D2	6.1	LI	2889	657	77%	5.622	2.678	52%	SC	CB	GS	OD - Pond (70%)		Commerce Park Pond 3	
E1	12.8	LI	7098.6	1199.72	83%	13.242	5.772	56%	SC	CB	OD - Pond (80%)			Commerce Park Pond 2	
F1	34.5	R	11315.8	7860.2	31%	34.26	28.32	17%	SC	CB	OD - Pond (80%)			Storage Shop USA Pond	
F2	5.4	LI	3175.4	547.2	83%	6.016	2.684	55%	SC	CB	OD - Pond (80%)			Commerce Park Pond 1	
G1	12.7	R	2143.8	1792.8	16%	8.946	8.018	10%	SC	CB					
H1	10.9	R	3683.2	3047.4	17%	13.206	11.616	12%	SC	CB					
I1	25.9	R	7102.8	5731.2	19%	27.1	23.62	13%	SC	CB					
J1	52.2	R	17146	14524	15%	52.02	46.56	10%	SC	CB					
J2	2.9	C	1734.2	1399.4	19%	3.694	3.132	15%	SC	CB					
K1	8.5	R	2588.4	2180.6	16%	8.102	7.284	10%	SC	CB					
L1	158.4	R	37190.6	14049.4	62%	149.82	85.88	43%	SC	CB	OD - Pond (80%)			Valley Drive Pond at Church St.	
M1	101.4	R, C	40478.6	20152.2	50%	111.48	68.78	38%	SC	CB	OD- Pond (40%)		OD - Pond (80%)	OD - Pond (37%)	Kwik Trip Pond, Bisbee Dale St Pond, Sediment Lagoon
M2	15.4	C	7119.6	2755.2	61%	17.496	8.868	49%	SC	CB	OD-Pond (53%)		OD-Pond (67%)		Woodland Commons Ponds 1a & 1b
M3	3.0	R	1113.2	914	18%	3.204	2.806	12%	SC	CB					
N1	24.1	R, C	8939.2	4546	49%	26.38	16.482	38%	SC	CB	OD- Pond (80%)		OD Pond (37%)		Burma Condos Pond, Sediment Lagoon
O1	13.3	R	3933.8	3238.6	18%	14.858	13.06	12%	SC	CB					
P1	58.1	R	16045.6	13433.6	16%	60.12	53.6	11%	SC	CB					
Q1	104.9	R	24001.6	20168	16%	100.46	90.22	10%	SC	CB					
Q2	6.9	R	1558.4	252.8	84%	6.274	2.586	59%	SC	CB	OD-Pond (80%)				Meredith Heights Pond
R1	75.3	R	25042.6	11612.8	54%	82.08	45.82	44%		GS	OD- Pond (37%)				Sediment Lagoon
S1	9.2	R	2874	628.4	78%	10.274	4.022	61%		GS	OD-Pond (70%)				Marsh/Siggelkow Pond
S2	32.1	R	7864.2	1972	75%	32.06	15.338	52%	SC	CB	OD-Pond (70%)				Marsh/Siggelkow Pond
T1	37.3	R, O	10356	8347.8	19%	34.12	29.5	14%	SC	CB	OD-Pond (70%)				Marsh/Siggelkow Pond
U1	48.5	R	13655	2262	83%	52.42	21.78	58%	SC	CB	OD - Pond (80%)				Red Oak Addition Pond
V1	73.0	R	23325.6	3882.8	83%	84	32.84	61%	SC	CB	OD - Pond (80%)				Red Oak Addition Pond
W1	178.1	R	50499.2	18440.6	63%	184.4	101.24	45%	SC	CB + one 6'MH		OD- Pond (60%)			Osborn Pond at Osborn/Leanne
W2	52.2	R	12866.2	3656.2	72%	50.36	24.8	51%	SC	CB	OD-Pond (80%)		OD Pond (60%)		Lot 17 Fieldstone Pond, Highland Oaks Regional Pond
X1	54.9	R	13743.4	11194.8	19%	51.82	45.58	12%	SC	CB					
X2	14.5	R, O	2615.4	2120.8	19%	11.188	9.922	11%	SC	CB					
X3	53.1	R	12066	2019.4	83%	49.14	21.26	57%	SC	CB	OD - Pond (80%)				Parkview Estates 1 Pond
X4	43.5	R	9872.6	5975.4	39%	39.76	27.34	31%	SC	CB	GS - (to model Dry Pond)				Countrywood 1998 dry pond with outlet structure
X5	12.1	R	3099.8	505.4	84%	11.762	4.784	59%	SC	CB	OD- Pond (80%)				Parkview Estates 2 Pond
Y1	27.2 Internally Drained - EXCLUDE									Internally drained basin - exclude					
TOTALS	1529		486038	257101	47%	1588	1031	35%							
*Particle sizes routed between control practices															



APPENDIX B

Madison Metro Sewerage Dist.

1610 Moorland Road
Madison, WI 53713-3398

Number:	RC000004087
Page:	1
Date:	12/1/2022

Sold To:	VILLAGE OF MCFARLAND ALLAN COVILLE 5915 MILWAUKEE ST PO BOX 110 MCFARLAND, WI 53558
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Reference - P.O. No.	Customer No.	Salesperson	Ship Via	Terms Code
	AMVMCFARLAND			WINS

	Description/Comments	Amount												
	Yahara Watershed Adaptive Mgmt	14,770.00												
	<table><tr><th>Due Date</th><th>Amount Due</th><th>Disc. Date</th><th>Disc. Amount</th></tr><tr><td>2/28/2023</td><td>7,385.00</td><td></td><td>0.00</td></tr><tr><td>6/30/2023</td><td>7,385.00</td><td></td><td>0.00</td></tr></table>	Due Date	Amount Due	Disc. Date	Disc. Amount	2/28/2023	7,385.00		0.00	6/30/2023	7,385.00		0.00	
Due Date	Amount Due	Disc. Date	Disc. Amount											
2/28/2023	7,385.00		0.00											
6/30/2023	7,385.00		0.00											

Remit To:

Madison Met. Sewerage District
1610 Moorland Road
Madison, WI 53713
USA

Total amount	14,770.00
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1% Interest per month after 30 days

Invoice

Village of McFarland MS4 Program Plan

Published: February 2024

1.0 INTRODUCTION

As an operator of a municipal separate storm sewer system (MS4), the Village is required to meet certain regulatory requirements with the aim of preventing polluted storm water runoff from entering local streams, rivers, and lakes. An MS4 is a conveyance or system of storm drains, pipes, ditches, etc., designed to collect or convey stormwater. Requirements are listed in WPDES Permit No. WI-S058416-4 (“MS4 Permit”), dated July 1, 2019, which was issued to 17 central Dane County communities, Dane County and UW-Madison, including the Village of McFarland. The goal of the municipal stormwater discharge program is to reduce adverse impacts to water quality in our lakes and streams from urban sources of stormwater runoff.

1.1 Plan Purpose

The purpose of this plan is to meet the following requirement, listed in Section 3 of the Village’s MS4 Permit: “The co-permittee shall have a written stormwater management program that describes in detail how the co-permittee intends to comply with the permit’s requirements for each minimum control measure.”

1.2 Plan Organization

This plan has been organized to show compliance with each minimum control measure. The following sections are included in this plan:

- ▶ Section 2.0: Introduction
- ▶ Section 3.0: Public Education and Outreach
- ▶ Section 4.0: Public Involvement and Participation
- ▶ Section 5.0: Illicit Discharge Detection and Elimination
- ▶ Section 6.0: Construction Site Pollutant Control
- ▶ Section 7.0: Post Construction Stormwater Management
- ▶ Section 8.0: Pollution Prevention

2.0 PUBLIC EDUCATION AND OUTREACH

The Village of McFarland is required to maintain a public education and outreach program to increase the awareness of storm water pollution impacts on waters of the state and to encourage changes in public behavior to reduce such impacts.

The Village of McFarland is a member of the Madison Area Municipal Storm water Partnership (MAMSWaP). The group pools resources in order to work cooperatively on storm water information, education and outreach. The materials and products that result from this joint effort are expressly developed for the Parties to partially fulfill their information and education permit obligations. As discussed in **Section 3.1.2** of the MS4 Permit, the Village is required to participate in the implementation of the most recent MAMSWaP 5-Year Information and Education Plan, and assists in the development of an annual work plan for the following calendar year. This plan is attached at the end of this section.

In addition, the Village is required to have its own individual annual public education and outreach plan, which is attached to the end of this section.

The Village shall address the eight topics listed below at least once during the permit term, with a minimum of six topics being addressed each year:

1. Illicit Discharge Detection and Elimination
2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing
3. Yard Waste Management/Pesticide and Fertilizer Application
4. Stream and Shoreline Management
5. Residential Infiltration
6. Construction Sites and Post-Construction Storm Water Management
7. Pollution Prevention
8. Green Infrastructure/Low Impact Development

The Village should provide at least four public education delivery mechanisms each year, at least two of which would be considered an active/interactive mechanism (see **Section 3.1.5 of the MS4 Permit** for a list of active and inactive delivery mechanisms). The Village may take credit for active mechanisms organized by MAMSWaP as long as the Village uses its resources to advertise the event.

MADISON AREA MUNICIPAL STORMWATER PARTNERSHIP

2024 ANNUAL INFORMATION AND EDUCATION WORK PLAN

DISTRIBUTED TO PARTNERSHIP MEMBERS ON DECEMBER 15TH, 2023

The Madison Area Municipal Stormwater Partnership (MAMSWaP), under the auspices of a five-year memorandum of understanding through 2024, currently consists of 21 entities that have agreed to jointly implement stormwater outreach to reduce negative stormwater impacts. Members include the Cities of Fitchburg, Madison, Monona, Middleton, Stoughton, Sun Prairie and Verona; the Villages of Cottage Grove, Cross Plains, DeForest, Maple Bluff, McFarland, Shorewood Hills, Waunakee and Windsor; the Towns of Burke, Blooming Grove, Middleton, Westport; Dane County and the University of Wisconsin–Madison.

The MAMSWaP Information and Education (I&E) Committee assists the Dane County Stormwater Education Coordinator (SWEC) with development and implementation of projects and plans. Regular participation on the I&E Committee has included representatives from the Cities of Madison and Stoughton, Village of DeForest, Town of Burke, Dane County, Madison Metropolitan Sewerage District (MMSD), Wisconsin Department of Natural Resources (WDNR), AECOM, and the University of Wisconsin – Madison.

The MAMSWaP Annual I&E Work Plan seeks to meet or exceed the minimum requirements and elements outlined in the current WPDES Permit Number WI-S058416-4 (effective July 1, 2019 – June 30, 2024 and continuing until permit re-issuance); and, WPDES Permit Number WI-S050075-03 (effective May 1, 2019 - April 30, 2024 and continuing until permit re-issuance) for the Village of Cross Plains, by developing and implementing a coordinated, regional outreach effort using consistent messages among and between communities to reduce the quantity and improve the quality of urban stormwater runoff and identify and eliminate illicit discharges. The permit requires that the information and education plan establish measurable goals for the topic areas listed in Table 1 below. Each co-permittee shall address all eight topics at least once during the permit term with a minimum of six topics each year.

Table 1. Public Education and Outreach Topic Areas and Descriptions

#	Topic Area	Description
3.1.4.1	Illicit Discharge Detection and Elimination	Promote detection and elimination of illicit discharges and water quality impacts associated with such discharges from municipal separate storm sewer systems.
3.1.4.2	Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing	Inform and educate the public about the proper management of materials that may cause storm water pollution from sources including automobiles, pet waste, household hazardous waste and household practices.

3.1.4.3	Yard Waste Management/Pesticide and Fertilizer Application	Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides.
3.1.4.4	Stream and Shoreline Management	Promote the management of streambanks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways.
3.1.4.5	Residential Infiltration	Promote infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks.
3.1.4.6	Construction Sites and Post-Construction Storm Water Management	Inform and educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install and maintain the practices.
3.1.4.7	Pollution Prevention	Identify businesses and activities that may pose a storm water contamination concern and educate those specific audiences on methods of storm water pollution prevention.
3.1.4.8	Green Infrastructure/Low Impact Development	Promote environmentally sensitive land development designs by developers and designers, including green infrastructure and low impact development.

Municipal Responsibilities

It is not enough for municipalities to merely be an actively paying contributor to the Partnership. There are specific actions each municipality must do. For example, while MAMSWaP has created a useful website, each municipality needs to link to www.ripple-effects.com. Other examples include:

- using provided articles and other information in municipal newsletters or utility bill inserts,
- promoting MAMSWaP campaigns, events and trainings,
- providing information on municipal web sites,
- issuing press releases to local newspapers,
- implementing a local Adopt A Storm Drain program, and
- promoting the storm drain marking program.

Municipalities must document in their reports to DNR how they have implemented outreach campaigns and used the materials developed by the I&E Committee.

Additional Activities and Ongoing Tasks

There are some administrative tasks and ongoing programs that must be performed every year that are essential to the program and need to be accounted for in the annual work plan. The following is a partial list of those tasks:

1. Quarterly reporting to member municipalities
2. Annual reporting to DNR.
3. Billing municipalities and tracking payments.
4. Developing annual work plans.
5. Updating and maintaining the www.ripple-effects.com website.
6. Continuing to be an active partner of WI Salt Wise.
7. Continuing to promote North American Stormwater and Erosion Control Association Wisconsin Chapter events.
8. Developing and distributing outreach tools and articles to municipalities, friends groups, community groups and neighborhood association newsletters.
9. Developing and providing presentations (PowerPoint, demonstrations, etc.) focused on audience interests/concerns.
10. Continuing to maintain and use existing list serves and distribution lists to disseminate info.
11. Continuing to provide organizations and community groups assistance and partnering with projects (presentations, displays etc. for communities).
12. Continuing to promote and support storm drain marking programs with supplies and other materials.
13. Promoting stormwater education materials and curriculum.
14. Publicizing training for building inspectors, contractors and staff.
15. Publicizing the availability of the Dane County Erosion Control and Stormwater Management Manual.
16. Promoting use of the Enviroscope model and Rainfall Simulator.
17. Continuing to coordinate outreach with partners such as Madison Metropolitan Sewerage District, Clean Sweep and others.
18. Continuing to actively participate in the Statewide Stormwater Collaborative group to learn from other stormwater groups across the state and discover possible projects to partner on.

Acknowledgments

The Madison Area Municipal Stormwater Partnership's 2024 Annual Information and Education Work Plan was developed by the MAMSWaP I&E Committee. Committee member expertise, input and municipal cooperation was crucial for plan development and will continue to play an integral role in addressing stormwater runoff in Dane County. Thank you to everyone who helped.

I&E Committee Members Contributing to the 2024 Annual I&E Work Plan

Jeremy Balousek, Dane County Land and Water Resources Department

Judd Blau, Village of DeForest

Christal Campbell, Dane County Land and Water Resources Department

Sue Eddy, City of Stoughton

Rick Eilertson, AECOM

Phil Gaebler, City of Madison

Claudia Guy, Dane County Land and Water Resources Department
Greg Hall, Village of DeForest
Jon Jackson, UW-Madison
Kathy Lake, Madison Metropolitan Sewerage District
Hannah Mohelnitzky, City of Madison
Rodney Scheel, City of Stoughton
PJ Lentz, Town of Burke

For more information, visit www.ripple-effects.com or contact Christal Campbell at 608-228-4493 or campbell.christal@countyofdane.com.

WPDES Permit (MAMSWaP) 2024 Annual Information and Education Work Plan for _____Dane County, WI

Topic Areas Covered: _____

Active Delivery Mechanisms Used*: _____

** Per guidance from Eric R, MAMSWaP members may take credit for active mechanisms organized by MAMSWaP as long as they promote those activities.*

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed ¹
Storm Drain Mural Program	Residential Educational	a. Nov-Dec 2023 b. Dec 2023-Jan 2024 c. Feb 2024 d. Mar-Aug 2024 e. Jun-Aug 2024 f. Jun-Aug 2024	a. Update and post Storm Drain Mural Grant on Ripple Effects web site. b. Promote Storm Drain Mural Grants. c. Rank and select 2-3 applications for new murals and 8-9 repainted murals. d. Work with municipalities, partner groups (schools, communities groups, etc.), and local artist to design and paint storm drain murals. e. Provide partner groups with articles to promote new murals locally. f. Add new storm drain murals to Storm Drain Mural Project map.	☐ Promote program and encourage partner groups to apply. ☐ Help locate suitable storm drain mural sites. ☐ Approve storm drain mural design.	1. Illicit Discharge Detection and Elimination 7. Pollution Prevention
Illicit Discharge Reporting Program	Residential Public Sector Private Sector	a. Jan-Mar 2024 b. Apr-May 2024	a. Work with City of Madison Dane County Public Health to create BMP fact sheets for contractors and businesses within sectors prone to engaging in unauthorized discharges. b. Mail or email local businesses of concern directly and share illicit discharge ordinance and BMP information.	☐ Share BMP fact sheets with local businesses directly from the municipality (or, alternatively, provide addresses of relevant businesses to the Stormwater Education Coordinate (SWEC) to be sent out from MDCPH/DCLWRD).	1. Illicit Discharge Detection and Elimination 7. Pollution Prevention
WI Stormwater Week	Residential Public Sector Educational	a. Jan 2023-Aug 2024 b. Apr-Aug 2024 c. Apr-Aug 2024	a. Participate on statewide Stormwater Collaborative Group planning team. b. Develop outreach resources to promote Stormwater Week. c. Plan and hold at least one local outreach event during Stormwater Week (potentially, a downspout garden kit sale).	☐ Promote stormwater related messages and events using provided outreach tools during WI Stormwater Week. ☐ Host a local stormwater related event during WI Stormwater Week	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing 3. Yard Waste Management/Pesticide and Fertilizer Application 5. Residential Infiltration 7. Pollution Prevention

1. From Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Clean Sweep Local Collection Event	Residential	a. Jan-Apr 2024 b. Jan 2024 c. Jan-Feb 2024 d. Mar-Apr 2024	a. Partner with Dane County Waste and Renewables and participating communities to plan a municipal Clean Sweep Hazardous Waste Collection Event at the Clean Sweep facility. b. Create a registration and voucher system for residents. c. Create outreach tools for participating communities. d. Hold Hazardous Waste Collection Events. ***This is limited to four municipalities located in proximity to the Clean Sweep facility. Contact the SWEC, if interested.***	☐ Promote Clean Sweep Hazardous Waste Collection Event using provided outreach tools (only open to residents of selected communities).	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal 7. Pollution Prevention
Stormwater Pollution/ Prevention Education Tools	Residential Educational	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024 d. Apr-Oct 2024	a. Promote stormwater ed. tools to groups and educators. b. Use stormwater ed. tools in at least 5 presentations, in-person or virtual. c. Check out stormwater ed. tools to at least 5 educators/groups. d. Prepare and maintain rainfall simulator samples. <i>Educational tools include: Rainfall Simulator, Enviroscape, Stormwater Animation, Lawns and Water Quality video, Stormwater Pollution and Solutions video and Storm Drain Marking</i>	☐ Promote stormwater ed. tools to local partners, groups and educators. ☐ Post links to virtual resources on municipal web site. ☐ Check out the Enviroscape or Rainfall Simulator to use at local event(s) or presentation(s). ☐ Provide SWEC with a local presentation opportunity along with contact information. ***Limited to 10 SWEC-led presentations per year for all MAMSWaP partners***	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing 3. Yard Waste Management/Pesticide and Fertilizer Application 4. Stream and Shoreline Management 5. Residential Infiltration 7. Pollution Prevention
Leaf-free Streets for Clean Waters	Residential Educational Private Sector	a. Sept 2024 b. Sept-Oct 2024 c. Oct-Nov 2024 d. Oct-Nov 2024	a. Update and distribute Leaf-free Streets for Clean Waters Toolkit to municipalities and groups. b. Print leaf-free streets signs for municipalities, as requested. c. Promote actions and rain alert system through social media, flyers, newsletter articles, signs, presentations, newspaper and online advertising. d. Monitor weather and issue email/text rain alerts.	☐ Promote Leaf-free Streets program, encourage residents to remove street leaves before the rain and sign up for rain alerts using provided outreach toolkit. ☐ Make signs available to residents. ☐ Engage local groups in heavy street tree areas and reward good practices.	3. Yard Waste Management/Pesticide and Fertilizer Application

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Plant Dane Native Plant Program	Residential Educational Private Sector	a. Nov 2023-Jan 2024 b. Feb 2024 c. Feb-Mar 2024 d. Feb-Mar 2024 e. May-Jun 2024	a. Work with Agrecol to update plant list/order system. b. Launch Plant Dane online order site. c. Update and distribute Plant Dane Toolkit to municipalities and groups. d. Sell at least 20,000 native plants through Plant Dane. e. Distribute native plant orders/donations.	☐ Promote Plant Dane program and encourage residents and groups to plant native plants and build rain gardens using provided campaign tools. ☐ Volunteer to hand out plants during a Plant Dane pickup event.	4. Stream and Shoreline Management 5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Free Native Plants for School and Community Projects (FNPSCP) Program		a. Nov- Dec 2023 b. Dec 2023-Jan 2024 c. Feb-Mar 2024 d. May-Jun 2024	a. Update and post FNPSCP Grant Application. b. Promote and review FNPSCP Grants. c. Solicit and collect donations for at least 10 FNPSCPs. d. Distribute native plant donations.	☐ Promote FNPSCP program to local schools, groups, non-profits, neighborhood associations, etc. and encourage groups to apply. ☐ Assist groups with planning and installation of gardens. ☐ Promote local projects and encourage local residents and groups to donate plants through Plant Dane orders system.	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Rain Garden Coaching Session / Workshop	Residential Educational General Public	a. Feb-Mar 2024 b. Feb-Mar 2024 c. Feb-Mar 2024 d. May-Jul 2024	a. Plan and host rain garden coaching session or workshop with at least 20 people. b. Promote rain garden coaching sessions. c. Coordinate registrations and create customized tools for each participant. d. Offer and process plant reimbursements for participants located in MAMSWaP communities.	☐ Promote the Rain Garden Workshop and encourage residents to sign up. ☐ Volunteer to be a trainer at the Rain Garden Workshop.	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Adopt A Storm Drain Program (AASD)	Residential Educational	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024 d. Jan-Dec 2024 e. Jan-Dec 2024 f. Jan-Dec 2024	a. Coordinate with Dane County Information Management to maintain and improve AASD website. b. Assist volunteers with web issues. c. Supply municipalities with cleaning kit materials. d. Develop outreach tools and promote program. e. Develop and distribute volunteer newsletter, the Storm Drain Scoop, 3-4x/year. f. Work with partner communities interested in joining the program.	☐ Participate in program and provide storm drain location data to Dane County. ☐ Distribute cleaning kits to local volunteers. ☐ Promote program locally using campaign tools through newsletters, local newspaper, mailings, web site, meetings, social media, etc. ***Contact SWEC, if interested.***	1. Illicit Discharge Detection and Elimination 3. Yard Waste Management/Pesticide and Fertilizer Application 7. Pollution Prevention
NASECA Trainings	Construction Professionals Public Sector	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024	a. Promote NASECA Trainings. b. Provide discounts to attend trainings for MAMSWaP communities.	☐ Promote NASECA Trainings to local construction professionals and municipal staff	6. Construction Sites and Post-Construction Storm Water Management

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
			c. Encourage municipal staff and contractors to attend NASECA events.	and encourage attendance through MAMSWaP provided discounts.	
WI Salt Wise Program and Salt Certification Trainings	Residential Private Sector Public Sector	a. Jan-Dec 2024 b. Jan-Mar 2024, Sept-Dec 2024 c. Sept-Dec 2024 d. Sept-Dec 2024	a. Participate on WI Salt Wise Steering Committee and attend meetings. b. Collaborate with WI Salt Wise partners to promote, develop and distribute resources to reduce winter salt use. c. Partner with WI Salt Wise to hold one in-person salt related training (certification or specialized training) in Dane County with at least 20 participants. d. Contract with Bolton and Menks to lead one virtual salt certification training.	☐ Promote Salt Wise resources and practices to businesses, residents, schools, organizations, and facility managers using WI Salt Wise campaign tools. ☐ Provide Salt Wise Coordinator with a local presentation opportunity along with contact information (school district, local company, etc). **Limited to 2 WI Salt Wise-led presentations per year for all MAMSWaP partners*** ☐ Send municipal staff to Salt Certification Trainings. ☐ Promote Salt Certification Trainings to municipal and private winter maintenance professionals and facilities managers. ☐ Partner with Salt Wise to host a salt related training in your community and actively participate by sharing local efforts with group to reduce salt use. ***Limited to one MAMSWaP partner per year***	7. Pollution Prevention
Rain Barrel Sale	Residential	a. Mar-Apr 2024 b. Apr-Oct 2024 c. Apr-Oct 2024 d. Apr-Oct 2024 e. Apr-Oct 2024	a. Develop outreach tools to promote program. b. Order rain barrels and maintain supply. c. Maintain online order system to sell rain barrels. d. Collect and process reimbursement requests for residents in MAMSWaP communities. e. Partner with City of Middleton and Village of Deforest to store and distribute barrels.	☐ Promote use of rain barrels and purchase of discounted rain barrels using MAMSWaP outreach tools.	5. Residential Infiltration
Lawn Care Calendar	Residential	a. Feb-Mar 2024 b. Mar-April 2024 c. April 2024	a. Partner with UW to create lawn care calendar. b. Create outreach tools for partners. c. Publish and promote lawn care calendar.	☐ Promote use of final lawn care calendar using MAMSWaP outreach tools.	3. Yard Waste Management/Pesticide and Fertilizer Application 5. Residential Infiltration

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Stormwater Facility Interpretive Signage	General Public	a. Dec 2023-May 2024 b. May-Aug 2024	a. Work with local artist to create stormwater facility illustrations. b. Create signage templates for different types of stormwater facilities. c. Post signage at Dane County Parks with stormwater facilities.	☐ Use provided illustrations/templates to develop educational signage for municipal stormwater facilities.	8. Green Infrastructure/Low Impact Design
Green Infrastructure Demo Projects	General Public	a. April-Oct 2024 b. April-Aug 2024 c. Sept-Oct 2024	a. Work with selected MAMSWaP communities to create demo downspout gardens. b. Create signage for demo gardens. c. Provide plants and a printed sign for demo gardens.	☐ Provide SWEC with potential location(s) for a demo downspout garden. ☐ Provide input on draft signage. ☐ Install plants and signage, provided by SWEC. ***Contact SWEC, if interested.***	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
5-year Stormwater Outreach Survey	General Public	a. Nov-Dec 2023 b. Dec 2023 c. Feb-Mar 2024 d. Apr-May 2024 e. Jun-Jul 2024 f. Aug 2024	a. Work with consultant to update 2018/2019 survey. b. Send draft survey to I&E Team for input. c. Distribute online partner survey to local environmental or water related groups. d. Work with consultant to analyze results and develop draft survey report. e. Provide draft survey report to I&E Team for input. f. Present results to MAMSWaP Large Group.	☐ Help distribute and encourage completion of online survey to local environmental or water related groups.	ALL
Check-in Meetings with MAMSWaP Communities	MAMSWaP Communities	a. July-Sep 2024	a. Coordinate meetings with individual MAMSWaP communities to discuss what's been working/not working, and gather input on future programs/activities.	☐ Coordinate with SWEC and attend check-in meeting.	ALL
MAMSWaP I&E 5-Year Plan	MAMSWaP Communities	a. Sep-Oct 2024	a. Develop draft 5-Year Plan using input from Check-in Meetings and Stormwater Outreach Survey results. b. Provide 5-Year Plan to I&E Team for input. c. Provide 5-Year Plan to MAMSWaP Large Group for input and finalization.	☐ Provide input on draft 5-Year Plan.	ALL

*from Table 1 of WPDES WI-S058416-04

WPDES Permit (MAMSWaP) 2024 Annual Information and Education Work Plan for Village of McFarland, Dane County, WI

Topic Areas Covered: As indicated below

Active Delivery Mechanisms Used*: As indicated below and in MAMSWaP workplan

* Per guidance from Eric R, MAMSWaP members may take credit for active mechanisms organized by MAMSWaP as long as they promote those activities.

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed ¹
Storm Drain Mural Program	Residential Educational	a. Nov-Dec 2023 b. Dec 2023-Jan 2024 c. Feb 2024 d. Mar-Aug 2024 e. Jun-Aug 2024 f. Jun-Aug 2024	a. Update and post Storm Drain Mural Grant on Ripple Effects web site. b. Promote Storm Drain Mural Grants. c. Rank and select 2-3 applications for new murals and 8-9 repainted murals. d. Work with municipalities, partner groups (schools, communities groups, etc.), and local artist to design and paint storm drain murals. e. Provide partner groups with articles to promote new murals locally. f. Add new storm drain murals to Storm Drain Mural Project map.	☒ Promote program and encourage partner groups to apply. ☐ Help locate suitable storm drain mural sites. ☐ Approve storm drain mural design.	1. Illicit Discharge Detection and Elimination 7. Pollution Prevention
Illicit Discharge Reporting Program	Residential Public Sector Private Sector	a. Jan-Mar 2024 b. Apr-May 2024	a. Work with City of Madison Dane County Public Health to create BMP fact sheets for contractors and businesses within sectors prone to engaging in unauthorized discharges. b. Mail or email local businesses of concern directly and share illicit discharge ordinance and BMP information.	☐ Share BMP fact sheets with local businesses directly from the municipality (or, alternatively, provide addresses of relevant businesses to the Stormwater Education Coordinate (SWEC) to be sent out from MDCPH/DCLWRD).	1. Illicit Discharge Detection and Elimination 7. Pollution Prevention
WI Stormwater Week	Residential Public Sector Educational	a. Jan 2023-Aug 2024 b. Apr-Aug 2024 c. Apr-Aug 2024	a. Participate on statewide Stormwater Collaborative Group planning team. b. Develop outreach resources to promote Stormwater Week. c. Plan and hold at least one local outreach event during Stormwater Week (potentially, a downspout garden kit sale).	☒ Promote stormwater related messages and events using provided outreach tools during WI Stormwater Week. ☒ Host a local stormwater related event during WI Stormwater Week	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing 3. Yard Waste Management/Pesticide and Fertilizer Application 5. Residential Infiltration 7. Pollution Prevention

1. From Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Clean Sweep Local Collection Event	Residential	a. Jan-Apr 2024 b. Jan 2024 c. Jan-Feb 2024 d. Mar-Apr 2024	a. Partner with Dane County Waste and Renewables and participating communities to plan a municipal Clean Sweep Hazardous Waste Collection Event at the Clean Sweep facility. b. Create a registration and voucher system for residents. c. Create outreach tools for participating communities. d. Hold Hazardous Waste Collection Events. ***This is limited to four municipalities located in proximity to the Clean Sweep facility. Contact the SWEC, if interested.***	☒ Promote Clean Sweep Hazardous Waste Collection Event using provided outreach tools (only open to residents of selected communities).	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal 7. Pollution Prevention
Stormwater Pollution/ Prevention Education Tools	Residential Educational	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024 d. Apr-Oct 2024	a. Promote stormwater ed. tools to groups and educators. b. Use stormwater ed. tools in at least 5 presentations, in-person or virtual. c. Check out stormwater ed. tools to at least 5 educators/groups. d. Prepare and maintain rainfall simulator samples. <i>Educational tools include: Rainfall Simulator, Enviroscape, Stormwater Animation, Lawns and Water Quality video, Stormwater Pollution and Solutions video and Storm Drain Marking</i>	☒ Promote stormwater ed. tools to local partners, groups and educators. ☒ Post links to virtual resources on municipal web site. ☐ Check out the Enviroscape or Rainfall Simulator to use at local event(s) or presentation(s). ☐ Provide SWEC with a local presentation opportunity along with contact information. ***Limited to 10 SWEC-led presentations per year for all MAMSWaP partners***	1. Illicit Discharge Detection and Elimination 2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing 3. Yard Waste Management/Pesticide and Fertilizer Application 4. Stream and Shoreline Management 5. Residential Infiltration 7. Pollution Prevention
Leaf-free Streets for Clean Waters	Residential Educational Private Sector	a. Sept 2024 b. Sept-Oct 2024 c. Oct-Nov 2024 d. Oct-Nov 2024	a. Update and distribute Leaf-free Streets for Clean Waters Toolkit to municipalities and groups. b. Print leaf-free streets signs for municipalities, as requested. c. Promote actions and rain alert system through social media, flyers, newsletter articles, signs, presentations, newspaper and online advertising. d. Monitor weather and issue email/text rain alerts.	☒ Promote Leaf-free Streets program, encourage residents to remove street leaves before the rain and sign up for rain alerts using provided outreach toolkit. ☒ Make signs available to residents. ☐ Engage local groups in heavy street tree areas and reward good practices.	3. Yard Waste Management/Pesticide and Fertilizer Application

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Plant Dane Native Plant Program	Residential Educational Private Sector	a. Nov 2023-Jan 2024 b. Feb 2024 c. Feb-Mar 2024 d. Feb-Mar 2024 e. May-Jun 2024	a. Work with Agrecol to update plant list/order system. b. Launch Plant Dane online order site. c. Update and distribute Plant Dane Toolkit to municipalities and groups. d. Sell at least 20,000 native plants through Plant Dane. e. Distribute native plant orders/donations.	☒ Promote Plant Dane program and encourage residents and groups to plant native plants and build rain gardens using provided campaign tools. ☐ Volunteer to hand out plants during a Plant Dane pickup event.	4. Stream and Shoreline Management 5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Free Native Plants for School and Community Projects (FNPSCP) Program		a. Nov- Dec 2023 b. Dec 2023-Jan 2024 c. Feb-Mar 2024 d. May-Jun 2024	a. Update and post FNPSCP Grant Application. b. Promote and review FNPSCP Grants. c. Solicit and collect donations for at least 10 FNPSCPs. d. Distribute native plant donations.	☒ Promote FNPSCP program to local schools, groups, non-profits, neighborhood associations, etc. and encourage groups to apply. ☐ Assist groups with planning and installation of gardens. ☒ Promote local projects and encourage local residents and groups to donate plants through Plant Dane orders system.	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Rain Garden Coaching Session / Workshop	Residential Educational General Public	a. Feb-Mar 2024 b. Feb-Mar 2024 c. Feb-Mar 2024 d. May-Jul 2024	a. Plan and host rain garden coaching session or workshop with at least 20 people. b. Promote rain garden coaching sessions. c. Coordinate registrations and create customized tools for each participant. d. Offer and process plant reimbursements for participants located in MAMSWaP communities.	☒ Promote the Rain Garden Workshop and encourage residents to sign up. ☐ Volunteer to be a trainer at the Rain Garden Workshop.	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
Adopt A Storm Drain Program (AASD)	Residential Educational	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024 d. Jan-Dec 2024 e. Jan-Dec 2024 f. Jan-Dec 2024	a. Coordinate with Dane County Information Management to maintain and improve AASD website. b. Assist volunteers with web issues. c. Supply municipalities with cleaning kit materials. d. Develop outreach tools and promote program. e. Develop and distribute volunteer newsletter, the Storm Drain Scoop, 3-4x/year. f. Work with partner communities interested in joining the program.	☒ Participate in program and provide storm drain location data to Dane County. ☒ Distribute cleaning kits to local volunteers. ☒ Promote program locally using campaign tools through newsletters, local newspaper, mailings, web site, meetings, social media, etc. ***Contact SWEC, if interested.***	1. Illicit Discharge Detection and Elimination 3. Yard Waste Management/Pesticide and Fertilizer Application 7. Pollution Prevention
NASECA Trainings	Construction Professionals Public Sector	a. Jan-Dec 2024 b. Jan-Dec 2024 c. Jan-Dec 2024	a. Promote NASECA Trainings. b. Provide discounts to attend trainings for MAMSWaP communities.	☒ Promote NASECA Trainings to local construction professionals and municipal staff	6. Construction Sites and Post-Construction Storm Water Management

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
			c. Encourage municipal staff and contractors to attend NASECA events.	and encourage attendance through MAMSWaP provided discounts.	
WI Salt Wise Program and Salt Certification Trainings	Residential Private Sector Public Sector	a. Jan-Dec 2024 b. Jan-Mar 2024, Sept-Dec 2024 c. Sept-Dec 2024 d. Sept-Dec 2024	a. Participate on WI Salt Wise Steering Committee and attend meetings. b. Collaborate with WI Salt Wise partners to promote, develop and distribute resources to reduce winter salt use. c. Partner with WI Salt Wise to hold one in-person salt related training (certification or specialized training) in Dane County with at least 20 participants. d. Contract with Bolton and Menks to lead one virtual salt certification training.	☒ Promote Salt Wise resources and practices to businesses, residents, schools, organizations, and facility managers using WI Salt Wise campaign tools. ☐ Provide Salt Wise Coordinator with a local presentation opportunity along with contact information (school district, local company, etc). **Limited to 2 WI Salt Wise-led presentations per year for all MAMSWaP partners*** ☐ Send municipal staff to Salt Certification Trainings. ☐ Promote Salt Certification Trainings to municipal and private winter maintenance professionals and facilities managers. ☐ Partner with Salt Wise to host a salt related training in your community and actively participate by sharing local efforts with group to reduce salt use. ***Limited to one MAMSWaP partner per year***	7. Pollution Prevention
Rain Barrel Sale	Residential	a. Mar-Apr 2024 b. Apr-Oct 2024 c. Apr-Oct 2024 d. Apr-Oct 2024 e. Apr-Oct 2024	a. Develop outreach tools to promote program. b. Order rain barrels and maintain supply. c. Maintain online order system to sell rain barrels. d. Collect and process reimbursement requests for residents in MAMSWaP communities. e. Partner with City of Middleton and Village of Deforest to store and distribute barrels.	☒ Promote use of rain barrels and purchase of discounted rain barrels using MAMSWaP outreach tools.	5. Residential Infiltration
Lawn Care Calendar	Residential	a. Feb-Mar 2024 b. Mar-April 2024 c. April 2024	a. Partner with UW to create lawn care calendar. b. Create outreach tools for partners. c. Publish and promote lawn care calendar.	☒ Promote use of final lawn care calendar using MAMSWaP outreach tools.	3. Yard Waste Management/Pesticide and Fertilizer Application 5. Residential Infiltration

*from Table 1 of WPDES WI-S058416-04

Program/ Activity	Audience	Timing	MAMSWaP Activities	Individual Municipality Activities (Check all that will be completed in 2024)	Public Education and Outreach Topic(s) Addressed*
Stormwater Facility Interpretive Signage	General Public	a. Dec 2023-May 2024 b. May-Aug 2024	a. Work with local artist to create stormwater facility illustrations. b. Create signage templates for different types of stormwater facilities. c. Post signage at Dane County Parks with stormwater facilities.	☐ Use provided illustrations/templates to develop educational signage for municipal stormwater facilities.	8. Green Infrastructure/Low Impact Design
Green Infrastructure Demo Projects	General Public	a. April-Oct 2024 b. April-Aug 2024 c. Sept-Oct 2024	a. Work with selected MAMSWaP communities to create demo downspout gardens. b. Create signage for demo gardens. c. Provide plants and a printed sign for demo gardens.	☐ Provide SWEC with potential location(s) for a demo downspout garden. ☐ Provide input on draft signage. ☐ Install plants and signage, provided by SWEC. ***Contact SWEC, if interested.***	5. Residential Infiltration 7. Pollution Prevention 8. Green Infrastructure/Low Impact Development
5-year Stormwater Outreach Survey	General Public	a. Nov-Dec 2023 b. Dec 2023 c. Feb-Mar 2024 d. Apr-May 2024 e. Jun-Jul 2024 f. Aug 2024	a. Work with consultant to update 2018/2019 survey. b. Send draft survey to I&E Team for input. c. Distribute online partner survey to local environmental or water related groups. d. Work with consultant to analyze results and develop draft survey report. e. Provide draft survey report to I&E Team for input. f. Present results to MAMSWaP Large Group.	☒ Help distribute and encourage completion of online survey to local environmental or water related groups.	ALL
Check-in Meetings with MAMSWaP Communities	MAMSWaP Communities	a. July-Sep 2024	a. Coordinate meetings with individual MAMSWaP communities to discuss what's been working/not working, and gather input on future programs/activities.	☒ Coordinate with SWEC and attend check-in meeting.	ALL
MAMSWaP I&E 5-Year Plan	MAMSWaP Communities	a. Sep-Oct 2024	a. Develop draft 5-Year Plan using input from Check-in Meetings and Stormwater Outreach Survey results. b. Provide 5-Year Plan to I&E Team for input. c. Provide 5-Year Plan to MAMSWaP Large Group for input and finalization.	☒ Provide input on draft 5-Year Plan.	ALL

*from Table 1 of WPDES WI-S058416-04

3.0 PUBLIC INVOLVEMENT AND PARTICIPATION

The purpose of the public involvement and participation program is to notify the public of activities required by this permit and to encourage input and participation from the public regarding these activities.

The Village is required to provide a minimum of one opportunity annually for the public to provide input on each of the following permit activities: annual report, storm water management program, and if applicable, adoption or amendment of storm water related ordinances. The Village provides the annual report to the Public Utilities Committee and the Village Board. The annual report is also available for the public to view upon request at the Village Offices.

The Village meets the requirements of **Section 3.2.3** by providing at least one public involvement and participation program a year, which can include events such as storm drain stenciling, waterway cleanups, and public workshops.

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION

As discussed in **Section 3.3.1**, the Village is required to have an illicit discharge ordinance. The Village's illicit discharge ordinance can be found in Section 47-337 - Illicit Discharges. The Village's Code of Ordinance can be accessed online at the location below:
<https://www.mcfarland.wi.us/342/Ordinances>

Section 3.3.2 requires the Village to perform illicit discharge detection and elimination (IDDE) field screening. During the permit term, the Village plans to inspect all major outfalls annually and all minor outfalls at least once during the permit term. The Village has a total of 2 major outfalls and 17 minor outfalls which discharge to waters of the state. If there is any suspected illicit activity, field screening will be located downstream of the suspected activity. Given the total number of outfalls the Village is responsible for screening, it is possible for the Village to screen all outfalls at least once during the permit term and more likely multiple times during the permit term. Field screening will be conducted according to the guidelines put forth in WDNR's Illicit Discharge Detection and Elimination guidance, which is attached to this document following this section. At outfall locations that tend to be perpetually wet, screening will be conducted at a typically dry upstream location.

Section 3.3.3 requires the Village to have written procedures for responding to known or suspected illicit discharges. Some response to this requirement is detailed in Village Ordinances 47-337 to 47-340. In the event that an illicit discharge or suspected illicit discharge becomes known to the Village, the Village shall investigate the event as soon as possible. The investigation efforts will include:

- a. Attempting to locate the source of the spill or discharge
- b. Prevention of further discharge or containment of the discharge
- c. Recording details of the event including date of discovery, dates of any action taken, location, follow-up actions taken, and sources (if known)
- d. Providing notification to the WDNR immediately in accordance with NR 706, Wis. Adm. Code if a spill or release of a hazardous substance is detected that has or may discharge to waters of the state. The Department shall be notified via the 24-hour toll free spill hotline at 1-800- 943-0003.
- e. Sampling of discharge in accordance with WDNR's Illicit Discharge Detection and Elimination guidance

Section 3.3.6 requires the Village to provide the name, title and phone number of the individual(s) responsible for responding to reports of illicit discharges and spills. The Village contact is Jim Hessling, Director of Public Works, 608-383-7287.



WISCONSIN DEPARTMENT OF NATURAL RESOURCES NOTICE OF FINAL GUIDANCE & CERTIFICATION

Pursuant to ch. 227, Wis. Stats., the Wisconsin Department of Natural Resources has finalized and hereby certifies the following guidance document.

DOCUMENT ID

WT-19-0027-C EGAD: 3800-2012-01

DOCUMENT TITLE

Illicit Discharge Detection and Elimination

PROGRAM/BUREAU

Storm Water Program/Watershed Management Bureau

STATUTORY AUTHORITY OR LEGAL CITATION

Section NR 216.07(3), Wisconsin Administrative Code

DATE SENT TO LEGISLATIVE REFERENCE BUREAU (FOR PUBLIC COMMENTS)

09/02/2019

DATE FINALIZED

10/07/2019

DNR CERTIFICATION

I have reviewed this guidance document or proposed guidance document and I certify that it complies with sections 227.10 and 227.11 of the Wisconsin Statutes. I further certify that the guidance document or proposed guidance document contains no standard, requirement, or threshold that is not explicitly required or explicitly permitted by a statute or a rule that has been lawfully promulgated. I further certify that the guidance document or proposed guidance document contains no standard, requirement, or threshold that is more restrictive than a standard, requirement, or threshold contained in the Wisconsin Statutes.

Signature

09/30/2019

Date



BUREAU OF WATERSHED MANAGEMENT PROGRAM GUIDANCE

Storm Water Management Program

Wisconsin Department of Natural Resources
101 S. Webster Street, P.O. Box 7921
Madison, WI 53707-7921

Illicit Discharge Detection and Elimination

March 2012

3800-2012-01

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

DATE: March 15, 2012

TO: SW Program Staff

FROM: Pam Biersach – Bureau Director
Bureau of Watershed Management 

SUBJECT: Program Guidance #3800-2012-01

Illicit Discharge Detection and Elimination

**March 2012
3800-2012-01**

This document is intended solely as guidance, and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations, and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

A. Statement of Problem Being Addressed

Limited information is available to assist municipalities with the development of an effective program to determine the presence of illicit discharges from storm sewer system outfalls.

B. Background

State and federal storm water discharge regulations require permitted municipal separate storm sewer systems (MS4s) to develop, implement and enforce a program to detect and remove illicit connections and discharges to the MS4. In Wisconsin, this requirement is established in s. NR 216.07(3), Wis. Adm. Code. The program must include routine dry weather field screening at storm sewer system outfalls and procedures for locating the source of known or suspected illicit discharges. If flow is observed, a combination of sensory observations and indicator parameter sampling must be used to determine the presence of illicit discharges and assist in the tracking, location and elimination of sources.

C. Discussion

Section NR 216.07(3)(i), Wis. Adm. Code, requires that field screening is conducted at all major outfalls and any additional outfalls designated by the municipality or Department. Field screening must include the following when flow is observed:

- Narrative descriptions of color, odor, turbidity, oil sheen, surface scum, flow rate and other relevant observations.
- Sampling for pH, total chlorine, total copper, total phenol and detergents unless Department



approval has been obtained for alternative parameters such as ammonia, potassium or bacteria.

The combination of sensory and indicator parameters is intended to provide insight regarding the presence and potential sources of illicit discharges. However, ch. NR 216, Wis. Adm. Code does not identify specific discharge limits, action levels or other criteria that should be used to determine if an illicit discharge is either present or absent. In addition, ch. NR 216, Wis. Adm. Code does not address the following:

- Selection of outfalls for on-going field screening after the initial major outfall field screening has been completed.
- Frequency and timing of outfall field screening activities.
- Outfalls with baseflow consisting of groundwater and other non-illicit discharges.
- Submerged, enclosed, or otherwise inaccessible outfalls.
- Outfalls from pumped storm water systems.
- Outfalls from swale conveyance systems and storm water treatment practices.
- Proper documentation and evaluation of outfall field screening activities.

The purpose of this guidance document is to provide supplemental information that can be used by MS4 owners and operators to maximize the efficiency and effectiveness of illicit discharge detection and elimination programs.

D. Guidance

Outfall Selection

Currently, MS4 permits include a requirement that field screening is initially conducted at all major outfalls¹. However, a more targeted approach to illicit discharge detection and elimination (IDDE) is recommended. Outfalls should be prioritized based on illicit discharge potential in the contributing drainage area rather than solely on pipe or drainage area size. Outfalls selected for on-going field screening based on illicit discharge potential are considered “priority outfalls”. Contributing drainage area characteristics or land uses that should be considered when selecting priority outfalls include:

- History of known or suspected illicit discharges reported within the last five years
- Sections of storm sewer and/or sanitary sewer infrastructure that have exceeded or are approaching their design/useful life.
- Contributing drainage areas with 80 or more percent imperviousness.

¹ “Major outfall” means a municipal separate storm sewer system outfall that meets one of the following criteria:

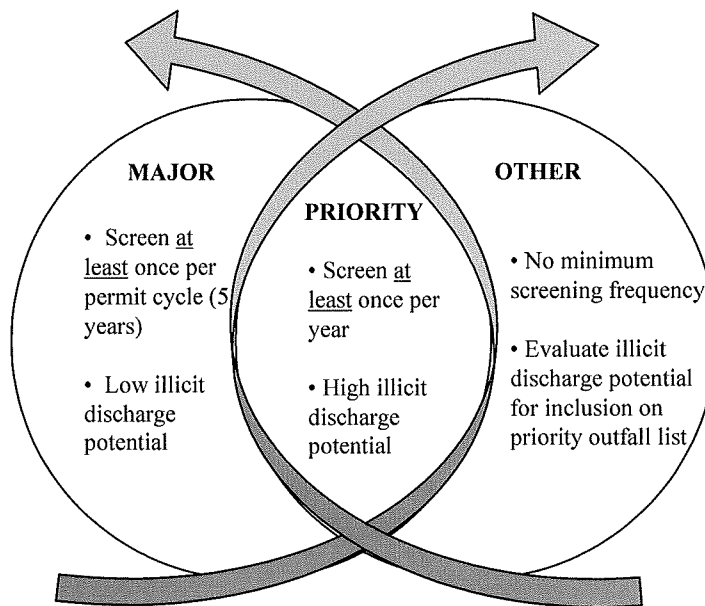
- (a) A single pipe with an inside diameter of 36 inches or more, or from an equivalent conveyance which is associated with a drainage area of more than 50 acres.
- (b) A single pipe with an inside diameter of 12 inches or more, or from an equivalent conveyance which receives storm water runoff from lands zoned for industrial activity with 2 or more acres of industrial activity.

- Business or industrial parks with frequent changes in property ownership or operations.
- Schools or other institutional facilities.
- Commercial or industrial operations that generate wastewater or wash water including food processing, metal plating or machining shops, auto and scrap recyclers, commercial car washes and chemical manufactures or users.

Frequency

The recommended approach to outfall field screening frequency is depicted in Figure 1. All priority outfalls should be screened at least once per year. In some cases, it may be appropriate to conduct more than one field screening per year at a particular priority outfall depending on initial screening results or illicit discharge potential. All other major outfalls not identified as priority outfalls should be screened at least once during each MS4 permit cycle (i.e., 5 years). The priority outfall list should be reviewed and modified if necessary during an annual program evaluation.

Figure 1 - Outfall Field Screening Frequency



Timing

Outfall field screening must be conducted during dry weather periods to minimize potential interference from non-illicit sources including runoff and groundwater. In general, field screening should not be conducted within 48 hours after a precipitation event that produces runoff. However, it may be necessary to wait longer than 48 hours after precipitation events depending on contributing drainage area characteristics, the presence of extended discharges from stormwater facilities or the size of the event. Field screening during periods of high groundwater, such as the early spring, should be avoided. However, spring or fall screening may be necessary if outfall access is significantly obstructed by vegetation.

Sensory Parameters

Obvious illicit discharges can potentially be identified by color, odor or other physical characteristics such as sheen or foam. However, proper interpretation of sensory observations can be complicated by the fact that some sources are naturally occurring (e.g., iron bacteria) or non-illicit (e.g., dye testing).

Chapter 11 of the Center for Watershed Protection's guidance manual for illicit discharge detection and elimination includes photos of common physical indicators for illicit and non-illicit sources. The entire manual can be downloaded from the USEPA website at http://www.epa.gov/npdes/pubs/idde_manualwithappendices.pdf

Indicator Parameters

Indicator parameter sampling is necessary to confirm sensory observations or distinguish illicit from non-illicit discharges. The following parameters are recommended for all observed discharges: **Ammonia, Detergents, pH and Total Chlorine**. Based on MS4 or outfall specific conditions, the following additional parameters should be considered:

- **Total Copper** in areas where industrial facilities that use or manufacture copper-based products are present.
- **Phenol** in areas where industrial facilities that utilize phenol in processes or products are present.
- **Potassium** when discharges of industrial wastewater or sanitary sewage are suspected.
- **Fluoride** when discharges with a drinking water supply component are suspected.
- **E. coli or Bacteriodes** when discharges of sanitary sewage are suspected.

The recommended parameters for all observed discharges are a deviation from the parameter lists identified in ch. NR 216, Wis. Adm Code and MS4 permits. Permitted MS4s should submit modified parameter list proposals to the Department for approval prior to implementation.

Test Methods

In order to provide relatively rapid results, indicator parameters should be analyzed using field test kits. However, field test kits should be used by staff with appropriate training and experience. Laboratory analysis is necessary for some parameters (e.g., E. coli, Bacteriodes) and recommended in cases where enforcement action may be necessary to eliminate illicit discharges or connections.

Action Levels

Recommended action levels for indicator parameters are found in Table 1. Sample results above these levels suggest the presence of an illicit discharge is likely. However, illicit discharges or connections should not be automatically ruled out in cases where parameters are detected below the recommended action levels. In some instances, illicit discharges can be masked by non-illicit sources depending on the time of the year, recent precipitation events, or other conditions, especially at outfalls with large

contributing drainage areas. With this in mind, the recommended action levels should be considered as starting points for decision making. Ultimately, identifying outliers to expected or past levels may be more important when determining if further investigation should be initiated. To determine when an outlier has been detected, each MS4 should maintain a database (or equivalent record) of indicator parameter test results for individual outfalls or groups of outfalls.

TABLE 1 – Indicator Parameters Action Levels

Parameter	Action Level	Illicit Sources	Non-Illicit Sources
Ammonia	0.1 mg/l	Sanitary sewage and industrial wastewater	Pets, wildlife and potentially WPDES permitted discharges
Detergents	0.5 mg/l	Industrial cleansers, commercial wash water and sanitary sewage	Residential car washing
pH	Less than 6 or greater than 9	Industrial wastewater and concrete truck wash-out	Groundwater and WPDES permitted discharges
Total Chlorine	Detection or positive test unless associated with a WPDES permitted discharge at background water supply levels	Industrial wastewater, swimming pools and sanitary sewage	WPDES permitted discharges
Total Copper	0.1 mg/l	Copper-based product use and manufacturing	WPDES permitted discharges
Phenol	Detection or positive test	Chemical, textile, paint, resin, tire, plastic, electronics and pharmaceutical manufacturing	None
Fluoride	Detection above background groundwater or water supply levels	Commercial and industrial wastewaters with a water supply component	Groundwater and WPDES permitted discharges
Potassium	10 mg/l	Sanitary sewage and industrial wastewater	Groundwater and WPDES permitted discharges
E. coli	10,000 MPN/100 mL	Sanitary sewage	Wildlife and pets
Human Bacteriodes	Detection or positive test	Sanitary sewage	None

Additional considerations for some of the indicator parameters are as follows:

- Field test methods for **detergents** are generally considered qualitative (i.e., positive or negative) tests. Some detergent test methods produce bubbles or a gel like substance that can be misinterpreted as a positive test for detergents. In addition, specific detergent test methods, such as the MBAS method, may not be capable of detecting all classes of detergents. Another potential

issue with detergent testing is distinguishing non-illicit discharges associated with residential car washing from illicit discharges.

- **Chlorine** residuals are typically short lived in the environment. Detection of chlorine at an outfall generally indicates a source that is relatively close to the outfall. However, chlorine detected at an outfall can be from an illicit or non-illicit source if chlorinated municipal drinking water supply is a component of the discharge (see “Non-Illicit Sources”).
- Leaching of **copper** from plumbing systems can be a source of copper even in areas where copper-based product use or manufacturing does not occur.
- Municipal drinking water supply systems that add **fluoride** typically maintain levels between 1 and 1.5 mg/l.
- **E. coli** is a commonly used sanitary sewage indicator. However, dry weather flow outfall monitoring in Wisconsin and other states indicates that E. coli levels are highly variable and can be produced by naturally occurring, non-illicit sources in the environment such as raccoons in storm sewers. Elevated dry weather E. coli levels in conjunction with detection of other indicator parameters (e.g., detergents, total chlorine) may be more indicative of the presence of sanitary sewage.
- The ratio of human **Bacteriodes** to total Bacteriodes may be particularly useful in determining sanitary sewage sources. However, the availability of Bacteriodes testing may be limited.

Non-Illicit Sources

Indicator parameters can be detected from non-illicit sources such as groundwater inflows, non-contact cooling water discharges or other WPDES permitted discharges from commercial and industrial facilities:

- **Groundwater:** Flow rates associated with groundwater inflows can vary seasonally due to fluctuations in groundwater elevations. Groundwater inflows are typically highest in the early spring and lowest in the late summer. In some areas, groundwater inflows will also include natural levels of fluoride. Baseline conditions for outfalls with groundwater inflows can be established by documenting seasonal flow rates and/or fluoride levels over time. If baseline conditions have been established for an outfall, sampling for other indicator parameters can be avoided if flow rates and/or fluoride levels are consistent with the established baseline values.
- **Permitted Facilities:** In some areas, WPDES permitted industrial facilities are allowed to discharge wastewater to MS4s as long as discharge limits are met. These discharges can produce continuous or nearly continuous flows at outfalls. WPDES permitted discharges are considered non-illicit but can include one or more of the indicator parameters at detectable levels. In many cases, municipal drinking water supply is a component of WPDES permitted discharges and it may be difficult to distinguish non-illicit from illicit sources in these areas. However, establishing baseline flow rates and parameter levels for outfalls with WPDES permitted discharges is recommended. If necessary, the Department can assist in the identification and characterization of WPDES permitted discharge, including discharge limits.

The Department maintains a listing of current WPDES permit holders online:

- **WPDES Wastewater Permittees**
<http://dnr.wi.gov/org/water/wm/ww/permlists.htm>
- **WPDES Industrial Storm Water Permittees**
<http://dnr.wi.gov/runoff/stormwater/industrial/>

Submerged & Enclosed Outfalls

It may be difficult or impossible to conduct outfall field screening activities at outfalls that are fully or partially submerged by receiving waters or located within enclosed waterways. For these cases, field screening activities should be conducted at appropriate upstream manholes. On-site illicit connection inspections should be considered for any high risk facilities that can potentially discharge to the MS4 between the outfall and field screening manholes. Another option to consider is televising the storm sewer segments located between field screening manholes and the outfall.

Physically Interconnected Systems

One MS4 that discharges directly to a second MS4 is considered physically interconnected. The point of interconnection is considered an outfall from the upstream or discharging MS4. Although field screening activities should be conducted by the upstream MS4 at the point of interconnection, it may be appropriate for interconnected MS4s to coordinate and potentially consolidate field screening activities.

Pump Stations

For pumped storm water systems, field screening activities should be conducted at appropriate manholes located upstream from the pump station or intake. If the first upstream manhole from the pump station is submerged, the pump should be operated if possible to remove accumulated water from the storm sewer system prior to conducting field screening activities.

Swales Conveyance Systems

For swale conveyance systems, it may be appropriate to conduct a visual or “windshield” survey within the swale area in conjunction with or as an alternative to field screening at the outfall. Locations where piped systems discharge to swales should be targeted during windshield surveys.

Storm Water Practices

Wet detention basins and other storm water treatment practices can potentially mask the presence of illicit discharges from the storm sewer system. Field screening activities should be conducted at inlets to storm water treatment practices rather than from the outlet. However, the size and location of practices can be considered when determining if field screening at inlets is necessary.

Documentation and Program Evaluation

Written or electronic documentation of all outfall screening activities should be kept. At minimum, the documentation should identify the following items for each outfall:

- Outfall location & description
- Inspector name
- Date of inspection
- Date & amount of last rainfall
- Weather conditions
- Narrative description of all sensory observations and flow rate estimates
- Test results for all indicator parameter sampling
- Narrative description of potential or confirmed illicit discharge sources and actions taken to track and eliminate sources.
- Additional comments or observations

As suggested in the "Action Level" section, it is important to develop and maintain a field screening database (or equivalent) to track changes and establish trends over time. Each permitted MS4 should conduct an annual evaluation of the field screening data and priority outfall list. Program modifications should be made as needed based on the annual evaluation.

APPROVED:

Mary Anne Townsend 3/19/2012
Section Chief Date

APPROVED:

Joe R. Lanzetta 3/19/2012
Staff Attorney Date

DISCUSSED OR APPROVED:

PMT Approved on 3/15/2012
Date

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

5.0 CONSTRUCTION SITE POLLUTANT CONTROL

As discussed in **Section 3.4.1**, the Village is required to have a construction site ordinance. The Village's construction site ordinance can be found in Part II, Chapter 8, Article XVII, Site Eorsion Control. Erosion Control requirements are at least as stringent as the requirements listed in **Section 3.4.1** of the permit. The Village's Code of Ordinance can be accessed online at the location below:

https://library.municode.com/wi/mcfarland/codes/code_of_ordinances?nodeId=PTIICOOR_CH8_BUBURE_ARTXVIISIERCO

According to **Section 3.4.2**, the Village should have written procedures for construction site plan review. At the Village, construction site plans are reviewed by the Village Public Works department and the Village Community Development and/or their designee for consistency with Village requirements and best management practices.

Members of the public can submit complaints by calling the McFarland Public Works Department's main number (608-838-7287) or by e-mailing Public Works at public.works@mcfarland.wi.us

According to **Section 3.4.3** the Village should have written procedures for administration of the construction site pollutant control program. At the Village, these procedures are managed through the erosion control permit application and administration process as outlined in Village ordinances and on the Village website. The responsibility for this administration initially falls on the Village Community Development department and is then shared with the Village Public Works and/or their designee depending on the size and scope of the project.

According to **Section 3.4.4(a)**, the Village should have written procedures for construction site inspection and enforcement and provide an identification of the municipal departments or staff responsible for construction site inspections and enforcement Overall, the Village department responsible for construction site inspections is the Village Public Works Department. The Village Public Works Department utilizes professional services to perform the inspections. In general, on projects that are improvements to public infrastructure, the Village Engineer performs and records the inspections. On projects that are improvements to private property, a professional construction site inspection service is used. Inspection records from all sites are retained within a singular database. If a verbal warning with follow-up inspection is sufficient to correct any deficiencies, then that action is handled by the respective construction

site inspectors. If an additional enforcement action needs to take place, the Village Public Works Department would collaborate with Village Administration to proceed with the action.

The Village's procedures meet the inspection frequency requirements listed in **Section 3.4.4.b** of the Permit. Those frequencies are as follows:

Table 3: Construction Site Inspection Frequency

Site	Inspection Frequency
(1) All sites one acre or more in size	• New projects shall be inspected within the first two weeks of commencement of land disturbing construction activity • All active sites shall be inspected at least once every 45 days • All inactive sites shall be inspected at least once every 60 days
(2) Follow up inspection	• Follow up inspections are required within 7 days of any sediment discharge or inadequate control measure, unless corrections were made and observed by the inspector during initial inspection or corrections were verified via photographs submitted to the inspector
(3) Final inspection	• Confirm that all graded areas have reached final stabilization and that all temporary control measures are removed, and permanent storm water management BMPs are installed as designed

The frequencies noted above are the minimum frequency of inspection. More typically, inspections are actually conducted weekly or within 24 hours of every 0.5 inch of rainfall. If deficiencies are observed during an inspection, then the inspector directs the contractor to make the required corrections. As described above, if the corrections are not observed or photos submitted, then a follow-up inspection is conducted within 7 days. Follow-up inspections are recorded and records of those inspections are maintained in the same database.

According to **Section 3.4.4.c**, compliance with the inspection requirements shall be determined by proper documentation and maintenance of records. The Village utilizes WDNR form 3400-187 to document construction site inspections. For reference, a sample of this inspection form is attached to the end of this section. During an inspection of a site, the inspector would utilize this form to document the inspection. If an inspection identifies any locations where actions are required, a follow-up inspection is completed. Follow-up inspections also use this same form and the inspector will refer to the previous inspection to confirm that the required actions have been completed. While a construction site is active, the inspection records are maintained by the Village agent responsible for conducting the inspections. At the end of each year or at the end of a site's active use, these records are transferred to a singular electronic file for retention by the Village Public Works Department.

Citations, verbal warnings, and stop work orders may be used to obtain erosion control compliance, in accordance with **Section 3.4.4.d** of the MS4 Permit.

Notice: This form was developed in accordance with s. NR 216.48 Wis. Adm. Code for WPDES permittees' convenience; however, use of this specific form is voluntary. Multiple copies of this form may be made to compile the inspection report. Inspections of the construction site and implemented erosion and sediment control best management practices (BMPs) must be performed weekly and within 24 hours after a rainfall event 0.5 inches or greater.

Construction Site Name and Location (Project, Municipality, and County):		Site/Facility ID No. (FIN):
Onsite Contact/Contractor:		Onsite Phone/Cell:
Note: Inspection reports, along with erosion control and storm water management plans, are required to be maintained on site in accordance with s. NR 216.48 (4) and made available upon request. PLEASE PRINT LEGIBLY.		
Date of inspection:	Time of inspection: Start: _____ ☐ am ☐ pm End: _____ ☐ am ☐ pm	Type of inspection: ☐ Weekly ☐ Precipitation Event ☐ Other (specify) _____
Weather/Site Conditions: Temp. _____ Antecedent Soil Moisture Last Rainfall Depth: _____ inches Last Rainfall Date: _____		Describe current phase of construction: Scheduled Final Stabilization Date for Universal Soil Loss Equation (USLE) ¹ : _____ Project on Schedule²? ☐ Yes ☐ No
Name(s) of individual(s) performing inspection:		Inspector Phone/Cell:
I certify that the information contained on this form is an accurate assessment of site conditions at the time of inspection: Inspector Signature _____ Date: _____		

Inspection Questions:	Yes	No (Identify Actions Required):	Location/Comments:	Actions Completed by Date & Initials
1. Is the erosion control plan accessible to operators?	☐	☐ Provide onsite copy		
2. Is the permit certificate posted where visible?	☐	☐ Post certificate		
3. Is the current phase of construction on sequence with the site-specific erosion and sediment control plan, including installation/stabilization of ponds and ditches?	☐	☐ Add sediment control ☐ Install missing ditch/pipe/pond ☐ Stabilize bare soil		
4. Are all erosion and sediment control BMPs shown on plan properly installed and in functional condition?	☐	☐ Repair ☐ Modify ☐ Install/Replace		
5. Is inlet protection properly installed and functioning in all inlets likely to receive runoff from the site?	☐	☐ Clean ☐ Replace ☐ Install		

¹ The Universal Soil Loss Equation (USLE) model and the Construction Site Soil Loss and Sediment Discharge Guidance are available at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

² If the project is not on schedule then the soil loss summary for the project should be reviewed and schedule, plan or practices modified accordingly.

CONSTRUCTION SITE INSPECTION REPORT

Form 3400-187 (R 11/16)

Page 0 of 3

Inspection Questions:	Yes	No (Identify Actions Required):	Location/Comments:	Actions Completed by Date & Initials
6. Is the air free of fugitive dust resulting from construction activity and bare soil exposure?	☐	☐ Apply water ☐ Apply dust control product		
7. Is the public right of way curb line free of tracked soil and accumulation?	☐	☐ Install tracking pad ☐ Widen/lengthen pad ☐ Amend stone/Add geotextile ☐ Install wheel washing station ☐ Close entrance/exit ☐ Limit traffic across disturbed areas ☐ Sweep road and curb line		
8. Are wetlands, lakes, streams, ditches, or storm sewers downstream of the site free of sedimentation and turbid water leaving the site? ³	☐	☐ Repair/Replace erosion control ☐ Add sediment controls ☐ Modify operations ☐ Contact DNR to verify extent of cleanup required		
9. Is dewatering and/or vehicle and equipment washing being done in a manner that prevents erosion and sediment discharge?	☐	☐ Install treatment train ☐ Install energy dissipation ☐ Modify discharge location ☐ Modify intake to reduce sediment		
10. Are soil stockpiles existing for more than 7 days covered and stabilized?	☐	☐ Seed ☐ Install mat/mulch/polymer ☐ Cover with tarp/plastic sheeting		
11. Are downstream channels and other downhill areas protected from scour and erosion?	☐	☐ Install energy dissipation at outfall ☐ Install ditch checks ☐ Install slope interruption ☐ Install onsite detention		
12. Are good housekeeping practices or treatment controls in place to prevent the discharge of chemicals, cement, trash, and other materials into wetlands, waterways, storm sewers, ditches, or drainage-ways? ⁴	☐	☐ Properly dispose of trash ☐ Provide concrete washout station ☐ Contact DNR to verify extent of cleanup required		
13. Is the plan reflective of current site operations and does it address all erosion and sediment control issues identified during the inspection?	☐	☐ Revise sequence ☐ Revise sediment control BMP ☐ Revise erosion control BMP ☐ Revise post-construction storm water BMP		
14. Are all areas where construction has temporarily ceased (and will not resume for more than 2 weeks) temporarily stabilized?	☐	☐ Cover with tarp/plastic sheeting ☐ Amend stone/Add geotextile ☐ Install tracking pad ☐ Install mat/mulch/polymer		
15. Are all areas at final grade permanently vegetated or stabilized with other treatments?	☐	☐ Amend stone/Add geotextile ☐ Install tracking pad ☐ Install mat/mulch/polymer		

³ If sediment discharge enters a wetland or waterbody, the permittee should consult with DNR staff to determine if sediment cleanup and/or additional control measures are required.

⁴ The permittee shall notify the DNR immediately via the spills hotline at (800)943-0003 of any release or spill of a hazardous substance to the environment in accordance with s. 292.11, Wis. Stats., and ch. NR 706, Wis. Adm. Code.

Inspection Questions:	Yes	No (Identify Actions Required):	Location/Comments:	Actions Completed by Date & Initials
16. Have temporary sediment controls been removed in areas of the site that meet the permit definition of 'final stabilization'?	☐	☐ Water to establish vegetation ☐ Repair or reseed areas ☐ Remove temporary practices		

3 If sediment discharge enters a wetland or waterbody, the permittee should consult with DNR staff to determine if sediment cleanup and/or additional control measures are required.

4 The permittee shall notify the DNR immediately via the spills hotline at (800)943-0003 of any release or spill of a hazardous substance to the environment in accordance with s. 292.11, Wis. Stats., and ch. NR 706, Wis. Adm. Code.

6.0 POST-CONSTRUCTION STORM WATER MANAGEMENT

According to **Section 3.5.1**, the Village is required to have an ordinance or other regulatory mechanisms to regulate post-construction storm water discharges from new and redevelopment. The Village's storm water management ordinance can be found in in Part II, Chapter 8, Article XVII, Storm water Management. Storm water management requirements are at least as stringent as the requirements listed in **Section 3.5.1**. The Village's Code of Ordinance can be accessed online at the location below:

https://library.municode.com/wi/mcfarland/codes/code_of_ordinances?nodeId=PTIIC_OOR_CH8BUBURE_ARTXVIIIISTMA

According to **Section 3.5.2**, the Village is required to have written procedures for the administration of the post-construction storm water management program, including a process for obtaining local approval and responding to complaints. The Village manages the administration of this program through the Village's Community Development department in conjunction with the Village Public Works Department and/or their designee. Local approval for new development is obtained by verifying the construction post-construction controls meet the approved requirements, with the verification by the Community Development department, Public Works department, and/or their designee. The response to complaints is handled by the Village Public Works Department.

According to **Section 3.5.3**, the Village is required to have written procedures for post-construction site plan review. At the Village, these plans are reviewed as part of the Erosion Control and Storm water Management permitting process. This is described more fully in Section 5.0 of this plan and the plan review is handled by the Village Public Works Department, Community Development Department, and/or their designee.

According to **Section 3.5.4**, the Village is required to have written procedures to, at a minimum, track and enforce the long-term maintenance of storm water management facilities implemented to meet applicable post-construction performance standards. The ability of the Village to enforce the long-term maintenance and inspection requirements is codified in the Village's Code of Ordinances within the section linked to above. Additionally, these facilities all have maintenance agreements giving the Village authority to maintain them if the owner fails to do so.

According to **Section 3.5.4.a**, the Village is required to have a mechanism for tracking regulated sites. These facilities are shown on the Village storm water map and listed in the table below:

Basin Location	BMP Name	Basin Area	BMP Type	Year Constructed	O&M Plan?	Record Drawing?
A1	84 Lumber Pond 2	13	Wet Pond	2004	UNK	Yes
B1	Voges Road Pond	7.1	Wet Pond		UNK	
C1	84 Lumber Pond 1	4.5	Biofiltration	2012	UNK	Yes
F1	Storage Shop USA	3.45	Biofiltration			
M1	Kwik Trip	1.6	Biofiltration			
M1	Bisbee Dale St Pond	2.1	Wet Pond			
N1	Burma Condos	2.3	Biofiltration			
W2	Lot 17 Fieldstone	7.8	Wet Pond			
X4	Countrywood Dry Pond	43.5	Grass Swale			

According to **Section 3.5.4.b**, the Village is required to inspect these facilities no less than once per permit term. The Village shall inspect all of these facilities a minimum of once per permit term.

According to **Section 3.5.4.c**, the Village is required to have procedures for documentation of these inspections. A sample inspection form and a screenshot from the GIS-based inspection form is included at the end of this section for reference. Inspections are typically documented electronically and recorded using an application on the Village's GIS. The GIS application allows for the storage of photos with each inspection and provides quick confirmation of compliance with required inspection frequency. Inspection documentation shall be maintained by the Village Public Works Department within the Village's GIS database.

According to **Section 3.5.4.d**, the Village is required to have procedures for follow up enforcement with timeframes for corrective maintenance. If issues are noted during an inspection, then the owner of the facility is promptly notified of the issues and any necessary maintenance. A formal notification of the issues noted is given to the owner by email or letter. The maximum timeframe given for corrective action is 6 months from date of notification. If

deemed reasonable by Village staff, then the timeframe given may be shortened. A follow-up inspection is conducted after the owner notifies the Village that actions have been taken. Documentation of follow-up enforcement is maintained electronically within the Village Public Works Department files.

7.0 POLLUTION PREVENTION

According to **Section 3.6.1**, the Village must update and maintain an inventory of municipally-owned or operated stormwater best management practices, such as wet ponds, bioretention devices, infiltration bays, etc. An inventory of Village-owned stormwater facilities can be found on the village's storm water map and is detailed in this table:

Basin Location	BMP Name	Basin Area (acres)	BMP Type	Year Constructed	O&M Plan?	Record Drawing?
D2	Commerce Park Pond 3	6.2	Wet Pond	1991	Annual Inspection	Yes
D1	Commerce Park Pond 4	13.8	Wet Pond	1991	Annual Inspection	Yes
A2	High Track	13.5	Wet Pond	2013	Annual Inspection	Yes
W2	Highland Oaks	52.6	Wet Pond		Annual Inspection	
Q2	Meredith Heights	6.9	Wet Pond	1999	Annual Inspection	
X5	Parkview Estates 2	13.2	Wet Pond	2001	Annual Inspection	Yes
X3	Parkview Estates 1	53.1	Wet Pond	2001	Annual Inspection	Yes
U1, U2	Red Oak Addition	122	Wet Pond	1999	Annual Inspection	Yes
M1, N1, R1	Sediment Lagoon	194	Wet Pond		Annual Inspection	
M2	Woodland Commons Pond 1a	4.9	Wet Pond		Annual Inspection	
M2	Woodland Commons Pond 1b	8.7	Wet Pond		Annual Inspection	
F2	Commerce Park Pond 1	5	Wet Pond	1991	Annual Inspection	Yes
S2	Marsh/Siggelkow Pond	44	Wet Pond	1993	Annual Inspection	
E1	Commerce Park Pond 2	13	Wet Pond	1991	Annual Inspection	Yes
L1	Valley Drive Pond	146	Wet Pond	2012	Annual Inspection	Yes
W1	Osborn/Leanne Pond	167	Wet Pond	2011	Annual Inspection	Yes

According to **Section 3.6.2**, the Village shall develop and implement a maintenance plan with inspection procedures and a schedule for the BMPs listed in the table above. The Village practice is to inspect all listed facilities a minimum of once annually and perform

maintenance of the device following inspection if necessary. Records of these inspections are maintained by the Village Public Works Department.

According to **Section 3.6.3**, municipally-owned facilities (such as municipal storage yards) should have a Stormwater Pollution Prevention Plan (SWPPP). A hard copy of the SWPPP for the Public Works Maintenance Yard can be obtained at the Public Works office or requested by either calling or e-mailing the McFarland Public Works Department's main number (608-838-7287) or by e-mailing Public Works at public.works@mcfarland.wi.us

Section 3.6.5.a of the MS4 Permit contains requirements for street sweeping documentation. The Village utilizes monthly street sweeping in its current storm water model. This documentation is submitted annually with the MS4 annual report and additional documentation is maintained by the Village Public Works Department.

Pavement sweeping is an effective stormwater management practice. The Village performs street sweeping along forty-four (44) miles of Village streets at least one (1) time per month in the summer months. Additional street sweeping is performed as time, weather and personnel staffing issues allow.

The Village uses a high-efficiency vacuum sweeper which consists of a Tymco 600 Regenerative Air System on a 2014 International Chassis. Street sweeping for the Village is completed by the Public Works Department. All street sweeping debris is collected and disposed of at the Village of McFarland Public Works Center. It is later hauled to a vendor for disposal.

The Village of McFarland Public Works Department records all street sweeping activities. Village personnel currently utilize paper logs and some GIS to track sweeping activities. Additionally, the estimated or actual amount of debris collected during sweeping activities, will be reported on the MS4 Annual Report. A sample log is included at the end of this section for reference.

Section 3.6.5.b of the MS4 permit contains requirements for catch basin cleaning documentation. The Village utilizes annual catch basin cleaning in its current storm water model. A The Village does maintain a documentation record of the number of catch basins cleaned and an estimate of the weight in tons of material collected annually.

The Village of McFarland plans to cleans all catch basins annually, or once per year. The Village maintains numerous catch basins, as reflected on the stormwater map. All debris is

collected and disposed of at the Village of McFarland Public Works Center. It is later hauled to a vendor for disposal.

The Village of McFarland Public Works Department records all catch basin sump cleaning activities. Village personnel currently utilize paper logs and some GIS to track this work. Additionally, the estimated or actual amount of debris collected during sweeping activities, will be reported on the MS4 Annual Report. A sample log is included at the end of this section for reference.

According to **Section 3.6.5.c**, material collected from street sweeping and sump cleaning should be disposed of or beneficially reused in accordance with applicable solid waste and hazardous waste statuses and administrative codes. Non-storm water discharges associated with dewatering and drying material are not authorized by the permit.

According to **Section 3.6.5.d(1)**, the Village should maintain a description of the leaf collection program, including type of pick-up methodology and equipment used. Brush and yardwaste collection is contracted out in five-year increments. Currently (2020-2024), brush and yardwaste is collected by Barnes. Residents are required to bring yard waste to the compost site for disposal. Brush should meet size requirements and be stacked neatly in the bunker for disposal terrace. Brush and yardwaste collection instructions can be found at the website below:

<https://www.mcfarland.wi.us/294/Yard-Waste-Brush>

The compost/brush site is operates from approximately April 1st of year until approximately mid-November and is open from 7:00a.m. to 7:00p.m., 7 days per week.

Brush and yard waste are picked up and is assumed that the material is processed into compost. It is not possible to estimate the weight in tons of material collected annually, as there is currently no scale available at the site.

According to **Section 3.6.5.d(3)**, the Village shall maintain documentation of the municipally-operated leaf disposal location. The Village's leaf disposal location is located at the Village of McFarland's Public Works Department (5115 Terminal Drive).

According to **Section 3.6.6**, no more salt or deicers may be applied than necessary to maintain public safety. Documentation on deicing activities shall be maintained including the following:

Contact Information for the department with overall responsibility for winter roadway maintenance.	Village of McFarland Public Works Dept. public.works@mcfarland.wi.us (608) 838-7287
A description of the types of deicing products used.	Salt, brine
Amount of deicing product used per month or per storm event.	Available in the Street Supervisor's files.
A description of type of equipment used.	
An estimate of the number of lane-miles treated with deicing products, as well as an estimate of the total area of municipally-owned parking lots treated.	
A description of snow disposal locations.	Not applicable.
A description of anti-icing, pre-wetting and bringing, equipment calibration, pavement temperature monitoring, and/or salt reduction strategies implemented or being considered.	

In **Section 3.6.7**, fertilizer and/or pesticide application on municipally-controlled properties may be implemented in accordance with site-specific requirements.

According to **Section 3.6.8**, consideration of environmentally sensitive land development designs for municipal projects, including green infrastructure and low impact development, shall be designed, installed, and maintained to comply with a water quality requirement under the MS4 Permit.

According to **Section 3.6.9**, the Village hold one annual training event for appropriate municipal staff and other personnel involved in implementing each of the elements of the pollution prevention program under this section (Pollution Prevention). Documentation shall be maintained including the date, number of people attending the training, the names of each person and a summary of their responsibilities, and the content of the training. This documentation will be maintained at the public works department.

As outlined in **Section 3.7** of the MS4 Permit, the Village should implement and maintain structural and non-structural BMPs to achieve a reduction of 20% or more of total suspended solids (TSS) carried from existing development to waters of the state.

According to **Section 3.8**, the Village is required to maintain a map of the MS4. This information is available at public works. Information is provided to the Village of Madison annually, so they can maintain a common storm sewer system map for the entire group permit area in accordance with **Section 3.8.2**. This information should be updated annually and provided to the Village of Madison by January 31 each year.

Street Sweeping Log

Section 3.6.5.a of our MS4 Reporting

Date (mm/dd/yyyy) | _____

Operator(s) | _____

Mileage Start | _____

Mileage End | _____

Total Mileage | _____

Loads of material collected today | _____

Amount of water used today | _____

Areas covered for todays sweeping | _____

Any issues concerns? Y/N If yes, describe | _____

Catch Basin Sump Cleaning Log

Section 3.6.5.b of our MS4 Reporting

Date		
Operator(s)		
Number of basins cleaned today		
Machine Used to clean basins	street sweeper	valve turner
Amount of material collected today	Est. YD ³	Est. Pounds
Amount of water used today	Gallons	
Locations todays work		



Public Works Center

Storm Water Pollution Prevention Plan

(SWPPP)

February 2024

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1.0 GENERAL FACILITY INFORMATION

Name of Facility: Village of McFarland

Facility Address: 5115 Terminal Drive, McFarland, WI 53558

Facility Contact:

Name: Lee Igl

Title: Director of Public Works

Telephone: 608-838-7287

Mailing Address: 5915 Milwaukee Street
McFarland, WI 53558

Owner/Operator: Village of McFarland

Permit Information:

Facility Permit Name: Public Works Center

Permit Number: WPDES Permit No. WI-S0584416-4

Initial Date of Coverage and Expiration: July 1, 2019-June 30, 2024

Number of Storm Water Outfalls: 2

Receiving Waters: Lake Waubesa

Emergency Contact:

Name: Lee Igl

Telephone: 608-838-7287

2.0 OVERVIEW

2.1 INTRODUCTION

This Storm Water Pollution Prevention Plan (SWPPP) covers the operations at the McFarland Public Works Center. It has been developed as required under Part III of Wisconsin's Pollutant Discharge Elimination System (WPDES) general permit for storm water discharges and in accordance with good engineering practices. This SWPPP describes this facility and its operations, identifies potential sources of storm water pollution at the facility, recommends appropriate best management practices (BMPs) or pollution control measures to reduce the discharge of pollutants in storm water runoff, and provides for periodic review of this SWPPP.

2.2 OBJECTIVES

The primary goal of the storm water permit program is to improve the quality of surface waters by reducing the amount of pollutants potentially contained in the storm water runoff.

This SWPPP will:

1. identify sources of storm water and non-storm water contamination to the storm water drainage system;
2. identify and prescribe appropriate "source area control" type best management practices designed to prevent storm water contamination from occurring;
3. identify and prescribe "storm water treatment" type best management practices to reduce pollutants in contaminated storm water prior to discharge;
4. prescribe an implementation schedule so as to ensure that the storm water management actions prescribed in the SWPPP are carried out and evaluated on a regular basis.

3.0 STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team is responsible for developing, implementing, maintaining, and revising this SWPPP. The members of the team are familiar with the management and operations of the McFarland Public Works Center.

Name & Title	Responsibility
Lee Igl Public Works Superintendent	Day to Day Operations & Planning
Aimee Irwin Assistant to the Director	Day to Day Operations & Planning
Lee Igl Director of Public Works	Day to Day Operations & Planning

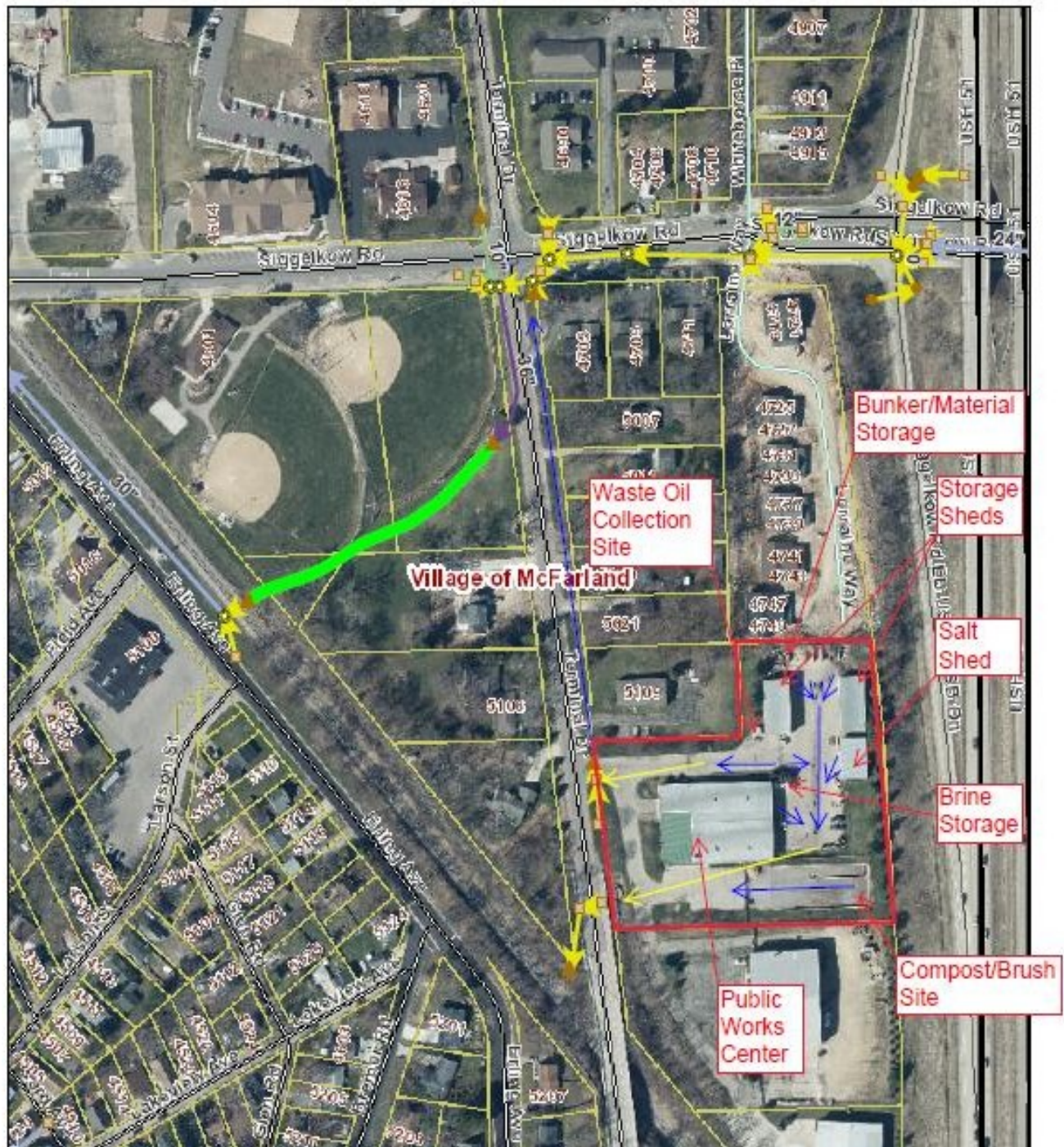
4.0 POTENTIAL SOURCES OF POLLUTANTS

4.1 SITE MAP

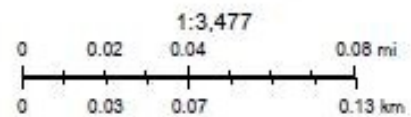
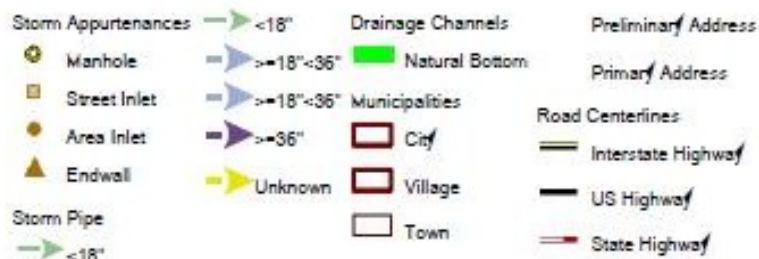
Figure 1 & 2 below presents a site map of the facility showing the following features as required by the permit:

- Facility property boundaries;
- Schematic of the storm drainage collection and disposal system, including all known surface and subsurface conveyances
- Any secondary or other containment structures if applicable
- Location of all outfalls
- Name and location of receiving waters or wetlands
- Location of activities and materials that have the potential to contaminate storm water

Village of McFarland



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Village Staff
na | MMSD

4.2 INVENTORY OF POTENTIAL SOURCES OF CONTAMINATION

The following have been identified as potential sources of storm water contamination.

- Asphalt pavement yard
- Salt storage loading area
- Brine storage area
- Compost drop off area
- Bunker storage areas
- Outdoor wash area
- Waste oil drop off area

All above mentioned areas are covered under two out falls and the receiving waters are Lake Waubesa.

The public works yard area drains to a sediment catch basin that is cleaned periodically. Water on the north side of the building is captured in a catch basin and sent to Lake Waubesa via a combination of grass ditches and downstream storm piping. Water that is captured on the east and west sides of the building drain into a sediment basin.

5.0 BEST MANAGEMENT PRACTICES

5.1 PRACTICES

Storm water management controls, or best management practices (BMPs), will be implemented to reduce the amount of pollutants in the storm water discharged from the McFarland Public Works Center. These include:

- Sweeping of the site
- Monitoring spillage
- Cleaning of the debris containment pit
- Employee training

5.2 SOURCE AREA CONTROLS

Erosion Control Measures

Areas prone to soil erosion shall be protected, and the soil kept out of the storm water discharge. All areas around the site are natural vegetation being mostly grass.

Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly work environment. This will reduce the potential for significant materials to come in contact with storm water. The follow practices are included in our good housekeeping routine

Area/Equipment	Tasks	Frequency
Storage Yard	Sweeping of the area	Weekly when practical
Catch Basin sump	Physical removal of various sediments	Weekly when practical
Parking lot	Sweeping of the area	Weekly when practical
Waste Oil drop off site	Sweeping of the area Monitoring the containment area	Weekly when practical

Preventive Maintenance

Preventive Maintenance involves the regular inspection, testing, and cleaning of facility equipment and operational systems. These inspections will help to uncover conditions that might lead to a release of materials.

Equipment	Tasks	Frequency
Salt storage facility	Sweep up residual from loading trucks	As needed
Compost area	Sweeping of the area	Weekly when practical
Waste Oil drop off site	Sweeping of the area Monitoring the containment area	Weekly when practical
Storage yard	Sweeping of the area	Weekly when practical

5.3 STORMWATER TREATMENT BEST MANAGEMENT PRACTICES

Best Management Practices for the Village of McFarland includes the following:

- Sweeping of the lot
- Cleaning up of any salt spillage
- Monitor equipment wash ups
- Cleaning the catch basins on the site
- Removing compost as warranted
- Monitoring salt handling at the site
- Monitoring brine handling at the site
- Sweeping the impervious areas as needed
- Reminding employees the importance of storm water run off
- Install and maintain filtering elements in structures

Preventive Measures

Preventive measures are controls that are intended to prevent the exposure of storm water to contaminates.

The following preventive measures have been chosen for this facility.

(Examples: signs and labels, safety posts, fences, a security system, coverings over areas of concern, etc.)

Area	Material	Control Measure
Salt Storage	Road Salt	Material is under a permanent covered structure
Brine Storage	Salt Brine	The department will be working on acquiring a containment vessel

6.0 RECORD KEEPING AND REPORTING

6.1 ANNUAL FACILITY SITE COMPLIANCE INSPECTION

Public Works management shall make an annual inspection to evaluate the effectiveness of the SWPPP. The inspection shall be adequate to verify that the site drainage conditions and potential pollution sources identified in the SWPPP remain accurate, and that the best management practices prescribed in the SWPPP are being implemented, properly operated and adequately maintained. Information reported shall include the inspection date, inspection personnel, scope of the inspection, major observations, and revisions needed in the SWPPP.

6.2 ANNUAL FACILITY SITE COMPLIANCE INSPECTION REPORT INSTRUCTIONS

- **Inspection Procedures:** The inspection report contains the procedures to be used for inspecting the facility annually. The purpose of this inspection and reporting procedure is to ensure the SWPPP is effectively preventing contamination of the stormwater. An example form for the annual facility site compliance inspection is included.
- **Responsibilities:** The Environmental Engineer will ensure that the annual inspection associated with this plan is performed.
- **Recordkeeping:** All inspection records should be maintained for at least five years
- **Inspection Frequency:** Will be performed once per year.

Annual Facility Site Compliance Inspection Form

Date: _____ Inspector Signature: _____

Instructions: Answer the questions below with a brief explanation in each box. A response of “No” indicates a further explanation and revision to the plan. Complete once per year to evaluate the effectiveness of the SWPPP.

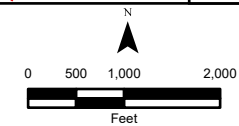
Facility:	
1. Are the site drainage conditions accurately represented in the SWPPP? Explain:	
2. Are the potential pollution sources identified in the SWPPP accurate? Explain:	
3. Are the BMPs being implemented, operated, and maintained adequately? Explain:	
4. Other major observations related to the effectiveness of the SWPPP:	
5. What revisions to the SWPPP are required:	
6. Personnel completing report and date:	

Village of McFarland Storm Sewer Map

Lake Waubesa
"303(d) Impaired Water"

Legend

- BMP Locations
- ★ Discharge Points
 - ★ Minor (<= 36")
 - ★ Major (> 36")
- Public Works Garage/Salt Storage
- ▭ Drainage Basins
- ▭ Drainage Basins (Major)
- Linear Inlet Drain
- Storm Pipe
- ▭ Drainage Areas
 - ▭ Natural Bottom
 - ▭ Engineered Bottom
- Streets
- ▭ Municipal Boundary
- ▭ Water



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