



# **STORMWATER MANAGEMENT PROGRAM**

**2019-2024**

Date Effective: April 21, 2021

Written & Compiled by Calumet County Land & Water Conservation Department Staff

# CALUMET COUNTY STORM WATER MANAGEMENT PLAN

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# ANNUAL REPORT

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## PERMIT REQUIREMENTS

Section 2.9 of the MS4 permit outlines the annual reporting process in order to submit a comprehensive report to DNR including the accomplishments related to the WPDES permit. Sections 2.9.1 through 2.9.8 explain the information that must be included in the report:

- The status of implementing the permit requirement, status of meeting measurable program goals and compliance with permit schedules.
- A fiscal analysis which includes the annual expenditures and budget for the reporting year, and the budget for the next year.
- A summary of the number and nature of inspections and enforcement actions conducted to ensure compliance with the required ordinances.
- Identification of any known water quality improvements or degradation in the receiving water to which the County's MS4 discharges. Where degradation is identified, identify why and what actions are being taken to improve the water quality of the receiving water.
- An evaluation of program compliance, the appropriateness of identified BMPs, and progress toward measurable goals. The permittee shall initiate any program changes to improve on any identified deficiencies.
- If applicable, notice that the permittee is relying on another municipality or entity to satisfy any of the permit requirements and a description of the arrangement where a permit requirement is met in this manner.
- A duly authorized representative of the County shall sign and certify the annual report and include a statement or resolution that the County Board has reviewed or been apprised of the content of the annual report.
- The annual report, other required reports, and permit compliance documents must be submitted through the DNR's electronic reporting system.

In addition, the municipal governing body, interest groups and the general public will be allowed to review and comment on the annual report.

## **CALUMET COUNTY PROCEDURES AND STAFF**

The annual report is compiled and submitted by the Erosion Control & Stormwater Specialist. It is posted on the LWCD webpage for public review and comment and it is communicated to the Land Conservation Committee and County Board of Supervisors for comment.

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# COOPERATION

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## PERMIT REQUIREMENTS

Section 2.10 allows another municipality or entity, with written agreement, to satisfy permit requirements on behalf of the permittee.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County's MS4 area is only the county owned right of ways within the urban area of the county. Therefore, Calumet County has and will continue to develop intergovernmental agreements with other municipalities to satisfy components of the MS4 permit. Some agreements are in the process of replacing oral agreements with written agreements and agreements will be needed for Calumet County to progress toward meeting TMDL removal goals in the urban area. The Erosion Control & Stormwater Specialist is responsible for initiating agreement discussions with final approval by the County Conservationist and signatory authority held by the County Administrator.

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# INTRODUCTION & OVERVIEW

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## INTRODUCTION

As required under Wisconsin Administrative Code NR 216, Calumet County applied for and received coverage under a Wisconsin Pollutant Discharge Elimination System (WPDES) Permit administered by the Wisconsin Department of Natural Resources (DNR). Called a Municipal Separate Storm Sewer System (MS4) Permit that required Calumet County to create a program that managed the County's efforts to meet the specific pollutant removal targets and outreach work within Calumet County's urban area.

The MS4 Permit is issued by the DNR in 5-year increments, then reevaluated and reissued. The current permit is WI-S050075-3 with a term from 2019 to 2024. This permit outlines a range of conditions that are required to be completed by the permit holder. The components of the Stormwater program as required by the MS4 permit include mechanisms for public education and outreach, opportunities for public involvement and participation, procedures for illicit discharge detection and elimination, construction site pollutant control, and post-construction stormwater management.

## OVERVIEW

The Calumet County Stormwater program is administered by the Land & Water Conservation Department. The Erosion Control & Stormwater Specialist is the staff position responsible for the program and compliance with the MS4 Permit, including annual reporting. However, many of the program activities outlined in this plan will be accomplished by staff in other departments. Each program component will list the individual staff responsible for individual tasks.

### **Calumet County Stormwater Management Program**

#### **Primary Contact**

Erosion Control & Stormwater Specialist

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# PUBLIC EDUCATION & OUTREACH

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## PERMIT REQUIREMENTS

Section 2.1 of the MS4 permit requires Calumet County to maintain a program that increases public awareness of the impacts from stormwater in order to encourage behavior that reduces pollution from stormwater. The MS4 permit includes eight specific topic areas that need to be addressed at least once during the permit term with Calumet County addressing at least six of the topic areas every year.

## TOPIC AREAS

- 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 Stormwater Management
- Pollution Prevention
- Green Infrastructure/ Low Impact Development

## DELIVERY MECHANISMS

Section 2.1.2 of the MS4 permit illustrates the types of and number of activities that permittees must use to address the topic areas. Permittees need to use at least four different delivery mechanisms every year and Calumet County needs to use a minimum of one active mechanism from the following list every year.

<b>Active/ Interactive Mechanisms</b>	<b>Passive Mechanisms</b>
<ul style="list-style-type: none"><li>• Educational activities (school presentations, summer camps)</li><li>• Informational booth at event</li><li>• Targeted group training (contractors, consultants)</li><li>• Government event (public hearing, council meeting)</li><li>• Workshops</li><li>• Tours</li><li>• Other</li></ul>	<ul style="list-style-type: none"><li>• Passive print media (brochures, posters, etc.)</li><li>• Distribution of print media (mailings, newsletters) via mail or email</li><li>• Media offerings (Radio and TV Ads, press release)</li><li>• Social media posts</li><li>• Signage</li><li>• Website</li><li>• Other</li></ul>

## **CALUMET COUNTY ACTIVITIES AND STAFF**

In order to satisfy the requirements of MS4 section 2.1, Calumet County engages staff from several departments and partners with the Northeast Wisconsin Stormwater Consortium (NEWSC). The delivery mechanisms used each year are reported to the DNR in the annual report by the Erosion Control & Stormwater Specialist. Specific planned or completed activities, including dates and events, are detailed in the Calumet County Outreach Plan spreadsheet attached in the appendices of this document. The following county staff perform the individual activities that meet the delivery mechanism requirement. Some mechanisms are delivered using NEWSC resources or at regional events and some are delivered only by Calumet County. Calumet County LWCD is an active participant in NEWSC with staff participating in the creation of many NEWSC products including, but not limited to print materials, targeted trainings, and events.

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# PUBLIC INVOLVEMENT AND PARTICIPATION

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## PERMIT REQUIREMENTS

Section 2.2 of the MS4 permit requires Calumet County to maintain a program that encourages public involvement and participation with the stormwater program in order to maximize public input into the required permit components and increase public participation.

Section 2.2.1 of the MS4 permit mandates that the public be given at least one opportunity to provide input on the permit activities:

- Annual report
- Stormwater management program
- when a stormwater related ordinance is amended

Section 2.2.3 of the MS4 permit requires that Calumet County implement at least one volunteer opportunity per year from a list of activities.

- Group best management practice installation or maintenance
- Storm drain stenciling
- Planting a community rain garden
- Clean up event
- Stream monitoring
- Citizen committee meeting
- Public workshop
- Presentation of stormwater information
- Other hands on event

## DELIVERY MECHANISMS

In section 2.2.2 public input opportunities that satisfy the requirements of section 2.2.1 are listed.

- Public workshop
- Presentation of stormwater information
- Government event (public hearing, council meeting, etc.)
- citizen committee meeting
- website

## **CALUMET COUNTY ACTIVITIES AND STAFF**

In order to satisfy the requirements of MS4 permit section 2.2, Calumet County LWCD staff provide several opportunities for public input and work with NEWSC to provide volunteer opportunities for Calumet County residents. On an annual basis at the completion of the annual report, Calumet County LWCD puts out a press release to local newspapers that directs residents to the department website where the annual report is posted for comment. The annual report is also distributed to the Calumet County Board of Supervisors after completion. Currently, Calumet County LWCD accepts public input of the stormwater program at any time. By April 30, 2021, an updated copy of the Stormwater Program Plan for 2019-2024 will be posted on the department website to make public input easier. When a stormwater related ordinance is amended or updated, it needs to be approved by the Calumet County Land Conservation Committee and the Calumet County Board of Supervisors, providing two opportunities for public input.

Calumet County provides and supports public participation and volunteer opportunities through staff work and collaborating with NEWSC. The Calumet County Water Resource Specialist annually coordinates with local volunteer groups to do stream monitoring at two sites in Calumet County. Every year Calumet County hosts sites and staff participate in the NEWSC planned Fox-Wolf Watershed Cleanup. Calumet County annually hosts several hazardous waste drop off events throughout the county that is coordinated by the Planning, Zoning, and Land Information Director. Specific information about the events, including dates of completion and target audience, are incorporated into the Calumet County Outreach Plan attached in the appendices of this document.

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# ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)

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## Permit Requirements

Section 2.3 of the MS4 Permit requires that Calumet County maintain a program to detect and eliminate illicit discharges to the MS4. The permit requires that the permittee establish an ordinance to prevent and regulate illicit discharges. It also requires that the permittee create and maintain a program that identifies illicit discharges in the field. When an illicit discharge is detected, the MS4 permit requires that the permittee create procedures to correct the issue.

Section 2.3.1 outlines the requirements of an IDDE ordinance. The ordinance must prohibit illicit discharges and the spilling or dumping of non-stormwater discharges into the MS4 or surface waters. The permit also requires that the permittee identify non-stormwater discharges that do not qualify as illicit discharges. It also requires the ordinance to include inspection and enforcement authority.

Section 2.3.2 requires dry weather field screenings of outfalls in the MS4 urban area. The Permittee needs to identify major outfalls that must be inspected at least once during a permit term. Minor outfalls must also be identified and a procedure to prioritize their inspection during the permit term must be created. The permittee needs to consider hydrological conditions, total drainage area of the site, population density at the site, traffic density, age of structures in the area, history of the area, and land use types when planning field screenings.

Documentation of field screenings is required and must include any visual observations such as color, odor, turbidity, oil sheen, flow rate, and any other relevant observations of non-stormwater discharges or illicit dumping. When flow is observed, the permittee must collect a sample to perform a field analysis to determine the presence of non-stormwater discharges. The sample must be tested for pH, total chlorine, total copper, total phenol, and detergents. Field screening points should be located downstream of suspected illicit discharges whenever possible. They should be located at the farthest manhole or other accessible location downstream that can be accessed safely.

Section 2.3.3 of the MS4 permit requires that the permittee establish written procedures for dealing with known or suspected illicit discharges. Procedures must include provisions for investigating probable illicit discharges determined by field screenings. They also must create procedures to respond to spills in the MS4 including tracking and locating the source of the spill. The permittee needs to work to prevent and contain spills inside or that may discharge into the MS4. The permittee needs to create a program to promote and facilitate public reporting of illicit discharges. The permittee must notify the DNR via the spill hotline and cooperate with the department if an illicit discharge has or may discharge to waters of the

state. The permittee is also tasked with detecting and eliminating cross connections and leakage from sanitary conveyance systems into the MS4. The permittee will notify the DNR ahead of any dye testing. Documentation of field screenings shall include dates and locations, illicit discharge reports received, dates of illicit discharge discovery, identification of areas where illicit discharges have been discovered, sources of illicit discharge, and actions taken by the permittee to address illicit discharges.

Section 2.3.4 requires the permittee to remove illicit discharges when they are discovered. The DNR must be consulted for appropriate period and action if it will take more than 30 days to remove the illicit discharge.

Section 2.3.5 states that when interconnected MS4s come into play, the permittee must contact the appropriate municipality within one working day if an illicit discharge from the permittee's permitted area discharges directly into the municipal separate storm sewer of another municipality or if an illicit discharge has been tracked upstream to the outfall from another municipality.

Section 2.3.6 of the MS4 permit requires that the name, title, and contact information of the staff responsible for responding to illicit discharges and spills be documented in the IDDE response procedures.

## **Calumet County Procedures and Staff**

Calumet County has an existing IDDE ordinance and an Illicit discharge response manual that comply with section 2.3.1 and 2.3.3 of the MS4 Permit. Both are attached to this document in the appendices. The manual is currently being updated to reflect current responsible staff names, titles, and contact information, completion by July 31, 2021.

The Erosion Control & Stormwater Specialist performs annual IDDE field screenings in order to comply with section 2.3.2 of the MS4 permit. Field screenings are documented in the field with photos and a report form, a blank copy of the form is attached at the end of this chapter. Calumet County intends to conduct field screenings of every outfall, major and minor, at least once during a permit term. Additional field screenings will be added when visual observations, public reports, or new construction near the MS4 area indicate a probable illicit discharge. Calumet County's MS4 area is only the road right-of-way of County roads within the mapped urban area; outfalls in Calumet County's MS4 are indicated on the stormsewer system map attached in the appendices of this document. Outfall locations will be updated as the field screening reports move to an app such as Survey123 that can be tied to the programs used to create maps by the Calumet County Land Information Office (LIO) during 2021. The Erosion Control & Stormwater Specialist is responsible for performing any needed field analysis with a testing kit and sample bottles provided by the LWCD that is capable of testing for the required substances required by section 2.3.2 part b. Calumet County also maintains an illicit discharge page on the Calumet County website that provides contact information to the public to report spills and suspected illicit discharges in accordance with part d of section 2.3.2.

Calumet County does not have authority over any municipally owned sanitary system conveyances in the MS4 area. Calumet County Planning & Zoning Code Administrators oversee installation and maintenance of Private Onsite Waste Treatment Systems (POWTS). They investigate reports of cross connections and failing POWTS or systems that have not been maintained as part of their zoning code enforcement authority. In the event of a discharge into the MS4 area, the procedures found in the Illicit Discharge Response Manual will be followed to assess and mitigate any potential effects of discharge from a POWTS.

Calumet County staff comply with section 2.3.5 by notifying interconnected MS4s if an illicit discharge has entered Calumet County’s MS4 area from their municipality or if an illicit discharge from the Calumet County unincorporated area has entered their MS4 area. The Erosion Control & Stormwater Specialist will contact the appropriate municipality if an illicit discharge is discovered during field screenings. If an illicit discharge is observed as the result of a spill, the Calumet County Emergency Manager, as the primary illicit discharge contact, will contact or designate other Calumet County staff to contact the appropriate municipality.

Contact Name and Position Title	Illicit Discharge Program Area of Responsibility	Contact Information
Bernie Sorenson Emergency Manager	Primary point of contact for spills, DNR hotline reports, remediation coordination	920-849-1473
Brent Jalonen Erosion Control & Stormwater Specialist	Responsible for annual field screening and illicit discharge detection	920-849-1442 ext. 2401 920-522-2002
Brian Giebel Code Administrator	Administer POWTS program	920-8491442 ext. 2304
VACANT Code Administrator	Administer POWTS program	920-849-1442 ext. 2404
LWCD Staff	May investigate manure spills and coordinate clean up with DNR Spills Coordinator	920-849-1442
Maizie Reif DNR Spill Coordinator	DNR Spills Coordinator for Calumet County	920-360-4291

# CONSTRUCTION SITE POLLUTANT CONTROL

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## PERMIT REQUIREMENTS

Section 2.4 of the MS4 permit requires the permittee to maintain a program to reduce pollutant discharges from construction sites.

Section 2.4.1 requires that the permittee maintain an ordinance to regulate control of erosion and sediment runoff at construction sites. The ordinance must establish applicability and jurisdiction for sites with at least one acre of land disturbance or less than one acre of land disturbance if part of a larger common plan of development. The permittee must also require planning and implementation of erosion and sediment control practices that are in line with DNR Technical Standards. The ordinance must hold construction sites to a performance standard of five tons per acre per year or less of sediment discharged from the site. The ordinance must also include requirements for management of construction waste such as concrete truck washout.

Section 2.4.2 requires the permittee to create and maintain procedures for construction site plan review that include potential water quality impacts and are conducted before construction.

Section 2.4.3 of the MS4 permit requires administrative procedures for operation of the program including approval, responding to complaints, and tracking construction sites.

Section 2.4.4 requires that the permittee establish procedures for construction site inspections that identify the responsible staff, frequency of inspections, documentation, and enforcement mechanisms.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County maintains a construction site erosion control ordinance that meets the requirements of section 2.4.1 and is attached in the appendices of this document. The ordinance requires any construction site with more than four thousand square feet of land disturbance, except one and two family homes with less than one acre of land disturbance, follow the same requirements as required by the MS4 for sites with more than one acre of land disturbance. The ordinance requires that landowners or their assigned agents apply for an Erosion Control permit through the Calumet County LWCD. Submittals for a permit application must include a completed permit application, construction site erosion control plan, and the appropriate permit fee.

Construction site plan review for projects in areas under the jurisdiction of Calumet County's ordinance is the responsibility of the Erosion Control & Stormwater Specialist. The applicant needs to present a plan with relevant information such as grades, outfalls, planned best management practices (BMPs), and construction sequence timeline; sites over one acre will need to submit a completed Soil Loss Spreadsheet to verify that the erosion control plan will meet the required performance standard. Calumet County must approve or disapprove a permit application within twenty working days as stated in the ordinance. The Erosion Control & Stormwater Specialist will review the submitted plans to determine several factors before approving the permit:

- Appropriateness of planned BMPs
- Potential impacts to adjacent surface waters or parcels
- Ability to meet 5 tons per acre per year performance standard
- Application of prescriptive BMPS such as trackout control that are needed on all sites
- Review of Soil Loss Spreadsheet for accuracy and reasonable seeding dates

After issuing a permit to an approved plan, the Erosion Control & Stormwater Specialist must enter the permittee information into a spreadsheet that tracks permits issued and create an inspection form for future inspections based on the BMPs shown on the permittee's approved erosion control plan. When the Erosion Control & Stormwater Specialist deems the construction site stable after a final inspection, the permit shall be closed.

To comply with section 2.4.4, the LWCD designated the Erosion Control & Stormwater Specialist to perform the required construction site erosion control inspections. They document observations during inspections with photos of deficient BMPs or sediment discharges and by completing the inspection form created for the project, an example is attached at the end of this chapter. Inspections will be performed at minimum with the frequency specified in the MS4 permit.

Site	Inspection Frequency
All permitted sites	<p>New projects will be inspected within two weeks of the beginning of land disturbance</p> <p>All active sites will be inspected at least once every 45 days</p> <p>All inactive sites will be inspected at least once every 60 days</p>
Follow up inspection	Follow up inspections will be performed 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

Final inspection	Confirm that all graded areas have reached final stabilization and that all temporary control measures are removed, and permanent stormwater management BMPs are installed as designed
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If compliance with the requirements of an issued erosion control permit cannot be obtained through normal inspections, voice or email communication with the responsible party, and follow up inspections, the inspector will enact enforcement mechanisms established in the Calumet County Ordinance.

- A Notice of Violation will be sent via certified mail, including a date to rectify any observed deficiencies by.
- A Stop Work Order will be posted at the construction site if the deficiencies are not corrected or arrangements made to correct the deficiencies by the date listed in the Notice of Violation.
- A citation may be issued if a Stop Work Order is violated and Calumet County may enter the site to correct any remaining deficiencies and bill the responsible parties for the cost of the work.

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# POST-CONSTRUCTION STORM WATER MANAGEMENT

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## PERMIT REQUIREMENTS

Section 2.5 of the MS4 permit requires the permittee to maintain a program to control the quality of stormwater discharges from new development, infill, and redevelopment after construction is completed.

Section 2.5.1 requires the permittee to maintain an ordinance to regulate post-construction stormwater discharges from new development and redevelopment. The ordinance must establish applicability and jurisdiction for sites with at least one acre of land disturbance or less than one acre of land disturbance if part of a larger common plan of development. It must establish design and construction requirements that are consistent with DNR Technical Standards. The ordinance must establish performance standards for all applicable sites that are consistent with ss. NR151.122 through 151.126 and 151.242 through 151.246 of Wisconsin Administrative Code. Permittees may establish more restrictive performance standards for new development and infill in order to comply with federally approved TMDL requirements. Requirements for long-term maintenance of post-construction stormwater BMPs, including inspection and maintenance of privately owned stormwater BMPs that discharge to the MS4.

Section 2.5.2 of the MS4 permit requires administrative procedures for operation of the program including plan approval and responding to complaints.

Section 2.5.3 requires the permittee to create and maintain procedures for post-construction site plan review that include potential water quality impacts. Post-construction site plan review will be required for all sites with greater than one acre of land disturbance.

Section 2.5.4 requires that the permittee establish procedures for post-construction sites that track regulated sites and enforce long-term maintenance of stormwater BMPs. Procedures for long-term maintenance inspections, inspection documentation, and follow up enforcement for corrective actions.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County maintains a post-construction site stormwater management ordinance that meets the requirements of section 2.5.1 and is attached in the appendices of this document. The ordinance establishes levels of performance standards based on land disturbance and impervious surface. Sites less than one acre are subject to requirements that regulate peak flow velocity in order to reduce erosion and other potential downstream impacts. Sites with one acre or more of land disturbance are subject to performance standards equal to those in ss. NR151.122 through 151.126 and 151.242 through 151.246 of Wisconsin Administrative Code.

Permitted sites within a TMDL watershed need to meet more restrictive pollutant removal targets established in the ordinance. The ordinance requires that landowners or their assigned agents apply for a Stormwater Management permit through the Calumet County LWCD. Submittals for a permit application must include a completed permit application, post-construction site stormwater management plan, and the appropriate permit fee.

Post-construction site stormwater management plan review for projects in areas under the jurisdiction of Calumet County's ordinance is the responsibility of the Erosion Control & Stormwater Specialist. The Erosion Control & Stormwater Specialist will review all Stormwater Management permit applications; in addition, an engineering firm contracted by Calumet County to evaluate modeled pollutant loading and removal efficiencies of the selected stormwater BMPs will review sites with at least one acre of land disturbance. Calumet County must approve or disapprove a permit application within twenty working days as stated in the ordinance. The Erosion Control & Stormwater Specialist will review all submitted plans, even those reviewed by Calumet County's contracted engineering firm, for long-term maintenance plans and potential offsite issues such as:

- Potential impacts to adjacent surface waters or parcels
- An adequate outfall is provided to minimize the presence of erosive flows from the site
- An Operation & Maintenance agreement is recorded with the Calumet County Register of Deeds for sites with at least one acre of land disturbance

After issuing a permit to an approved plan, the Erosion Control & Stormwater Specialist must enter the permittee information into a spreadsheet that tracks permits issued and create an inspection form for future inspections based on the BMPs shown on the permittee's approved Post-construction stormwater management plan. Inspections will be done during construction as part of the erosion control permit that these sites will also be subject to. When the Erosion Control & Stormwater Specialist deems the construction site stable after a final inspection and after approval of an as-built survey by Calumet County's contracted engineering firm the permit shall be closed.

To comply with section 2.5.4, the LWCD designated the Erosion Control & Stormwater Specialist to perform the required post-construction stormwater BMP inspections. Each site will be inspected at least once by the Erosion Control & Stormwater Specialist during a permit term. The condition of the facilities including inlets and outlets will be inspected along with depth of sediment accumulation in wet ponds. Permittee landowners and operators are still subject to the terms of their recorded Operation & Maintenance agreements including the requirement to inspect the stormwater facilities. Calumet County is currently creating an inventory of existing privately owned stormwater management BMPs and an inspection program that more easily ties into Calumet County's GIS programs to be completed by December 31, 2021 and the first set of stormwater facility inspections completed by December 31, 2024. Time frames for corrective actions of privately owned stormwater facilities will depend on the severity of observed deficiencies and maintenance needs of the inspected stormwater facility.

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# POLLUTION PREVENTION

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## PERMIT REQUIREMENTS

Section 2.6 of the MS4 permit requires that the permittee maintain a Pollution Prevention program for the municipality. Section 2.6.1 requires an inventory of structural stormwater management BMPs be maintained. Section 2.6.2 requires the permittee maintain operation and maintenance procedures for the inventoried BMPs.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County uses some of the grass swales along county roads in the MS4 area to achieve some pollutant removal and must maintain the swales so that they continue to function as modeled. The grass swales are divided by the section of county road they drain, creating five BMP catchments. The maps of the water quality swales are attached at the end of this chapter.

Swale Catchment Map ID	County Road Served
B2a	County Rd KK
B2b	County Rd KK
B2e	County Rd N
B2f	County Rd N
B2g	County Rd B

The swales are to be maintained by the Calumet County Highway Department with input from the Erosion Control & Stormwater Specialist. The swales will be inspected annually for grass height and sediment deposition. The swales will be mowed, cleaned, and regraded as needed. The swales were identified as water quality swales in 2017 MS4 modeling and inventoried in 2019.

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# STORMWATER QUALITY MANAGEMENT

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## PERMIT REQUIREMENTS

Section 2.7 of the MS4 permit requires the permittee to maintain a storm water quality management program to develop and implement a plan that achieves compliance with the developed urban area performance standards of s. NR 151.13(2) (b) 1., Wisconsin Administrative Code, and for those areas of the municipality that are not subject to the post-construction performance standards of s. NR 151.12 or 151.24.

Section 2.7.1 establishes the specific performance standards that permittee Stormwater Quality Management Programs need to meet for total suspended solids (TSS) removal. The permittee needs to meet the more restrictive pollutant reduction of the following two options:

- The permittee must maintain all source area controls, structural stormwater facilities, and non-structural stormwater BMPs. That existed on or before July 1, 2011, to achieve a reduction of 20% or more TSS reduction from existing development runoff. Any changes to stormwater BMPs require that the reduction be maintained or improved by installing, implementing, or maintaining appropriate BMPs.
- A 20% reduction in annual average mass of TSS discharging from the MS4 to surface waters of the state as compared to no controls. All source area controls, structural stormwater facilities, and non-structural stormwater BMPs used to achieve the 20% reduction must be maintained. The reduction must be maintained or improved if any stormwater BMPs are modified or removed by installing, implementing, or maintaining appropriate BMPs.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County has met and exceeded the 20% TSS reduction as compared to the no controls baseline. Calumet County achieves the reductions through street sweeping and grass swales in county owned right of ways.

Street sweeping of Calumet County roads are contracted with the municipality that the county roads are located in. Street sweeping frequency is to be maintained through intergovernmental agreements. The agreement with the City of Appleton is attached in the appendices of this document. Currently, Calumet County is working to create written intergovernmental agreements with the remaining municipalities to replace existing oral agreements for street sweeping and road maintenance to be completed by December 31, 2021.

The remaining portion of Calumet County roads in the MS4 area are served by grass swales to generate TSS removals. Those swales are maintained by the Calumet County Highway Department with mowing and sediment cleanout being conducted as needed. If a grass swale were to be removed in favor of curb and gutter, Calumet County will need to maintain or improve the TSS reductions achieved by the grass swale through an alternative BMP.

The following table illustrates existing TSS removals greater than 20% that must be maintained as of the last modeling update performed in 2017.

**Table 3-2: NR 151 Pollutant Analysis - 2017 BMPs (WinSLAMM)**

Sub-Watershed	Urban Area (acres)	Total Suspended Solids (TSS)			Total Phosphorus (TP)		
		Baseline Load (lbs/yr)	Load Reduction		Baseline Load (lbs/yr)	Load Reduction	
			(lbs/yr)	(%)		(lbs/yr)	(%)
Garners Creek	56.3	28,952	8,892	30.7%	98.6	15.5	15.7%
Kankapot Creek	3.0	1,270	400	31.5%	5.2	1.1	22.2%
Lake Winnebago	35.9	14,167	4,206	29.7%	58.6	11.7	20.1%
Total:	95.2	44,388	13,497	30.4%	162.3	28.4	17.5%

The primary contact for the Calumet County Highway Department is the Highway Superintendent and the program contact is the Erosion Control & Stormwater Specialist.

Highway Superintendent

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# STORM SEWER SYSTEM MAP

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## PERMIT REQUIREMENTS

Section 2.8 of the MS4 permit requires the permittee to maintain a Separate Storm Sewer System Map. The map must be updated annually as needed to identify features required in sections 2.8.1. through 2.8.8:

- Identification of waters of the state, name and classification of receiving water(s), identification of whether the receiving water is an ORW, ERW or listed as an impaired water under s. 303(d) of the Clean Water Act, storm water drainage basin boundaries for each MS4 outfall and municipal separate storm sewer conveyance system including direction of flow.
- Identification of any known threatened or endangered resources, historical property and wetlands that might be affected.
- Identification of all known MS4 outfalls discharging to waters of the state and other MS4s. Major outfalls shall be uniquely identified.
- Location of any known discharge to MS4 that has been issued WPDES permit coverage by the DNR.
- Location of municipally owned or operated structural storm water management facilities including detention basins, infiltration basins, and manufactured treatment devices. If credit is being taken for privately owned facilities, they must be identified.
- Identification of publicly owned parks, recreational areas and other open lands.
- Location of municipal garages, storage areas and other public works facilities.
- Identification of streets.

## CALUMET COUNTY PROCEDURES AND STAFF

Calumet County's MS4 Separate Storm Sewer System Map is maintained by the Land Information Office (LIO) by the GIS Manager. It is updated annually when new information is obtained that will make the map more accurate or useable. Currently, Calumet County is

working to implement inspection reports that tie into the programs used to make the MS4 map, in order to more accurately locate features.

GIS Manager

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