

**Due by March 31, 2017**

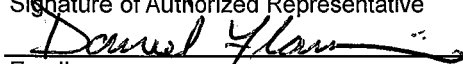
**Notice:** Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. 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.].

This form is for reporting on activities undertaken in calendar year 2016.

**Instructions:** Complete each section of the form. If additional space is needed, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2017, to the appropriate address indicated on the last page of this form.

Part I. Municipal Information			
Name of Municipality City of Muskego		Facility ID No. (FIN) 31280	
Mailing Address W182S8200 Racine Avenue, PO Box 749	City Muskego	State WI	ZIP Code 53150
County(s) in which Municipality is located Waukesha	Municipality Type: (select one) <input type="radio"/> County <input checked="" type="radio"/> City <input type="radio"/> Village <input type="radio"/> Town <input type="radio"/> Other (specify)		

Part II. Municipal Contact Information			
Name of Municipal Contact Person Daniel Flamini, RLS		Title Lead Engineering Technician	
Mailing Address (if different from above) W182S8200 Racine Avenue	City Muskego	State WI	ZIP Code 53150
Email dflamini@cityofmuskego.org	Phone Number (include area code) (262) 679-4156	Fax Number (include area code) (262) 679-5614	
Has the contact person changed in the last year? <input checked="" type="radio"/> Yes <input type="radio"/> No			

Part III. Certification			
<i>I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.</i>			
Authorized Representative Printed Name DANIEL FLAMINI	Authorized Representative Title LEAD ENGINEER TECH		
Signature of Authorized Representative 	Date 3/10/17		
Email dflamini@cityofmuskego.org	Phone Number (include area code) 262-679-4156	Fax Number (include area code) 262-679-5614	

Part IV. General Information	
<p>a. Describe the municipality's efforts to invite the municipal governing body, interest groups, and general public to review and comment on the annual report.</p> <p>The City of Muskego has published its Annual Report on the City's website to notify the public of permit compliance activities. Any public comment is reported to the Public Works Committee who would then report to the Common Council by way of minutes approval.</p>	
<p>b. Describe how the municipality has kept elected and municipal officials and appropriate staff (such as operators, department heads, and those that interact with the public) informed of the municipal storm water discharge permit and its requirements.</p> <p>The permit requirements as well as every public improvement project and Engineering Study is discussed and/or reported to the Public Works Committee.</p>	
<p>c. Has the municipality prepared or updated its own municipal-wide storm water management plan during the reporting year?</p> <p style="text-align: right;"><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>If yes, provide the title and date of storm water management plan and list any updates:          City of Muskego Comprehensive Stormwater Management Plan Phase 2, July 1999</p> <p>If yes, has the information been submitted to the Department?</p> <p style="text-align: right;"><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	

d. During the reporting year, has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit?  Yes  No

If yes, describe these cooperative efforts:

The City has grouped with the Waukesha Stormwater Education Program to combine efforts related to public education. Implementation of specific program items began in November of 2008 and has continued since.

If yes, has the information been submitted to the Department?

Yes  No

e. If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program?

Yes  No

If yes, provide web address:

<http://www.cityofmuskego.org/index.aspx?nid=156>

**Part V. Evaluation of Permit Conditions (Section 2 of General Permit)**

**Minimum Control Measures:** For each of the permit conditions listed below, provide an evaluation of program compliance with the general permit.

1. Public Education and Outreach (Section 2.1 of General Permit)

Description of Program(s)	The City uses its existing website to educate its residents on stormwater management and water quality issues. It has also agreed to participate in the Waukesha County Stormwater Education Program which it joined in November of 2008.
Measurable Goal(s)	The City of Muskego aims to ensure residents have access to educational information about stormwater management and water quality issues and have opportunities to get involved with the Waukesha County Stormwater Education Program.
Result(s) Achieved	The City participated in the Waukesha Stormwater Education Program. Through this program residents had access to items such as developer and contractor workshops, storm drain stenciling, educational newsletters, community educational presentations, tours and demonstrations for the public. In addition, this program provides training and teaching resources for schools.
Describe any planned changes to program.	N/A

2. Public Involvement and Participation (Section 2.2 of General Permit)

Description of Program(s)	The Muskego High School Science Club collected prairie seed at Engel Conservation Area. This seed helped augment the seed mix that was "dormant-planted" in former crop fields at Holz Preserve, a prairie and wetland restoration site. Conservation Coordinator teamed up with US Fish & Wildlife staff to implement a restoration project at the high school, to be utilized for environmental classes in the future. Kayak trips on Big Muskego Lake(60 people) narrative included info on pollution contro
Measurable Goal(s)	The City publishes its NR216 Annual Report on the City's website to notify the public of permit compliance activities. The City accepts comments from the public via phone, e-mail or in writing.
Result(s) Achieved	Many questions were answered and some site inspections done.
Describe any planned changes to program.	N/A

3. Illicit Discharge Detection and Elimination (Section 2.3 of General Permit)

Description of Program(s)	The City adopted a new Illicit Discharge Detection and Elimination ordinance in November of 2008 following the requirements of the MS4 permit. The ordinance prohibits the discharge, spilling or dumping of non-storm water substances or materials into
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**Part V. Evaluation of Permit Conditions** (continued)

	waterways, details the identification protocols for non-storm water discharge or flow that is not considered illicit discharge, and establishes inspection and enforcement authority.
Measurable Goal(s)	In 2016, all major outfalls were evaluated by a consulting firm.
Result(s) Achieved	None of these major outfalls required any further investigation.
Describe any planned changes to program.	N/A

4. Construction Site Pollutant Control (Section 2.4 of General Permit)

Description of Program(s)	The Community Development Department is responsible for the enforcement of the erosion and sediment control ordinance including review of erosion control permits and plans.
Measurable Goal(s)	In 2016 - 69 new home permits were issued and all are inspected for erosion control devices.
Result(s) Achieved	For all new home permits, erosion and sediment control ordinances were enforced and sites were inspected for erosion control devices.
Describe any planned changes to program.	N/A

5. Post-Construction Storm Water Management (Section 2.5 of General Permit)

Description of Program(s)	The City requires compliance and is responsible for enforcing the provisions of this ordinance through the stormwater management plan reviews performed by the Engineering Department.
Measurable Goal(s)	Maintenance agreements are required for all privately owned BMPs constructed in the City of Muskego.
Result(s) Achieved	Ensures ponds are being maintained properly.
Describe any planned changes to program.	N/A

6. Pollution Prevention (Section 2.6 of General Permit)

Description of Program(s)	The City's Pollution Prevention Program was developed in 2008, which includes stormwater facility inspection and maintenance, street and catch basin cleaning protocols, road salt and yard waste management, municipal garage and yard inspections and maintenance, and municipal staff education.
Measurable Goal(s)	All roads will be cleaned a minimum of two times in 2016. Road salt was kept to a minimum by calibrating application rates to a minimum for arterials and collectors and only salting minor and local intersections.
Result(s) Achieved	Most roads were cleaned twice (some more if needed) in 2016 to ensure compliance with street and catch basin cleaning protocols. In addition, the minimum amount of road salt was used to minimize stormwater pollution from excess salt runoff.
Describe any planned changes to program.	N/A

• Storm Water Management Facilities (Section 2.6.1 of General Permit)

List any new municipality owned or operated structural storm water management facilities (ponds, biofilters, etc.) added in the last year.

• Routine Inspection and Maintenance (Section 2.6.2 – 2.6.4 of General Permit)

Does the municipality have an inspection and maintenance program for installed structural storm water management facilities?

Yes  No

Describe the inspection and maintenance program and any activities that have occurred for structural storm water management facilities in 2016. If available, attach any additional information on the inspection and maintenance program.

City Crews inspect all City owned outlet structures and keeps free of debris.

Describe the street sweeping and catch basin cleaning efforts, and the disposal of waste.

Street sweeping and catch basin cleaning occur twice a year. All debris is disposed of at the landfill.

• Winter Road Management Activities (Section 2.6.5 of General Permit)

Provide the name, title, and phone number of the individual(s) with overall responsibility for winter roadway maintenance.

Wayne Delikat, Public Works Superintendent, 262-679-4148

Describe the types of products used for winter road management (e.g. deicing, pre-wetting, salting, etc.).

Salting and occasional sand if it is too cold for salt to work

Report the amount of product used by month over the last winter season (approx. November 2015 through April 2016).

Approximately 2,100 Tons of salt over the whole 2015-16 winter season

Report the snow disposal locations, if applicable.

None

Describe anti-icing, equipment calibration, and salt reduction strategies.

We recalibrate annually and train drivers to only utilize minimum requirements.

Describe any other additional data or information used to evaluate the winter road management activities.

Driver Experience

• Leaf Management (Section 2.6.6 of General Permit)

Describe the management of leaves and grass clippings.

City crews pick up leaves/crass clippings from residents throughout fall. All leaves/clippings are taken to the City yard where they are converted to compost. Residents are then offered free compost. Program is very successful, residents usually pickup all the compost throughout the year.

• Municipal Pollution Prevention (Section 2.6.7 of General Permit)

Provide the location (street address) of each facility (municipal yards and/or maintenance facilities) and contact information (name, title, and phone number) for the individual(s) with overall responsibility for each facility.

City Garage- W189 S8235 Mercury Dr- Muskego, WI 53150- Wayne Delikat- 262-679-4148

Map(s) included?  Yes  No - Include a map of each facility, drawn to scale and include the following features:

**Part V. Evaluation of Permit Conditions (continued)**

- Location of major activities and storage areas
- Identification of drainage patterns, potential sources of storm contamination and discharge points.
- Identification of nearby receiving waters or wetlands
- Identification of connections to the permittees's MS4

Describe the housekeeping activities and best management practices installed at municipal yards and/or maintenance facilities to reduce or eliminate storm water contamination.

We clean the yard often and make sure our leaf pile and salt piles all stay on paved surfaces. We have installed a concrete basin that allows us to store debris that may be wet on that then drains into the sanitary system. We can then haul this to the landfill once it has dried.

Discuss recommendations for improvements to current storm water management practices at the facility(s) and provide a timeline for installation and/or implementation of these recommendations.

We plan to remodel our existing building and we bought an adjacent building that allows us to store all equipment inside. All floor drains go to the sanitary sewer so if there are any vehicle leaks there will be no risk of contaminating the ground. We also installed a stone drive so no sediment can be washed away.

Provide information on facility inspections. Identify and address potential sources of storm water contamination.

Our facilities are used daily by employees, they are inspected often for any storm water contamination.

Describe the municipal facility(s) employee training on storm water pollution prevention (frequency, duration, objectives, percentage of employees trained this year, etc.).

We have completed an educational video that discusses prevention and what to do if something happens. This has paid off on multiple occasions with our employee base reporting unusual incidents around the City on private property that we are then able to follow up with the DNR.

Describe the spill prevention and response procedures in place at the municipal facility(s).

We stock an entire pallet of floor dry that we use immediately if we have any spills. This allows for immediate clean up so spills can't spread. We then clean the floor dry and dispose of it.

**7. Storm Water Quality Management (Section 2.7 of General Permit)**

Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard?  Yes  No

If yes, provide the following: Model used SLAMM Version 9.4 Reduction (%) 31.2

If no, include a description of any actions the municipality has undertaken during 2016 to help achieve the 20% standard.

**8. Storm Sewer System Map (Section 2.8 of General Permit)**

Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.

The City now has an updated interactive Storm Sewer System Map available to the public at the following web-site: <http://www.mapmuskego.com/mapPUBLIC/>

**Part VI. Fiscal Analysis**

a. Provide a fiscal analysis that includes the annual expenditures for 2016, and the budget for 2016 and 2017. A table to document fiscal information is provided on page 8.

b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

- Storm water utility  General fund  Other Specific Revenue Account (from landfill host agreement)

- c. Is adequate revenue generated to implement the storm water management program and meet permit requirements?  
 Yes  No

Please provide a brief summary of the municipality's financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer the storm water management program.

The City of Muskego has a fund generated by the active landfill operations that may appropriate monies toward the City's storm water management goals.

### Part VII. Inspections and Enforcement Actions

**Note: If an ordinance listed below has been submitted to the Department previously and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.**

- a. Has the municipality amended its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit during the reporting year?  
 Yes  No

If yes, attach copy or provide web link to ordinance:

- b. Has the municipality amended its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit during the reporting year?  
 Yes  No

If yes, attach copy or provide web link to ordinance:

- c. Has the municipality amended its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit during the reporting year?  
 Yes  No

If yes, attach copy or provide web link to ordinance:

- d. Has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.) during the reporting year?  
 Yes  No

If yes, attach copy or provide web link to ordinance:

- e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

Inspections are completed as permits are applied for and as violations occur. Should a complaint come to the City's attention, we will inspect the situation and issue orders for compliance. If a permit is issued, inspection will occur prior to new home permit issuance and throughout the home building process. In 2016, the City issued 69 new home permits.

### Part VIII. Water Quality Concerns

- a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: <http://dnr.wi.gov/topic/surfacewater/orwerw.html>)  
 Yes  No

If yes, list:

- b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: <http://dnr.wi.gov/water/impairedsearch.aspx?status=303d>)  
 Yes  No

If yes, complete the following:

- Impaired waterbody to which the MS4 discharges:

Little Muskego Lake

- Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant(s) of concern to an impaired waterbody:

The main pollutant of concern for Little Muskego Lake is Total Phosphorus, which is categorized as low priority. Actions to reduce Total Phosphorus may include educational activities or resources that focus on limiting the use of residential and municipal lawn fertilizers as well as limiting the use of manure in agricultural areas. Educational information can be found on the City's web-site.

c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

None

d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.

No known degradation in 2016.

e. Does any part of the MS4 discharge to an approved Total Maximum Daily Load (TMDL) area (Section 1.5.4 of the general permit)?

Yes  No

If yes, fill out below. If no, disregard.

Required reporting for TMDLs approved prior to the effective date of the permit for 2016:

Name of TMDL: \_\_\_\_\_ Date TMDL approved? \_\_\_\_\_

Map(s) included?  Yes  No - Submit a storm sewer system map (may be the same map submitted under section V.6. of this form), which includes the TMDL reachshed boundaries and associated acreage within the municipality, and the MS4 drainage boundaries and associated acreage within the municipality.

**Part IX. Proposed Program Changes**

Describe any proposed changes to the storm water management program being considered for 2017 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

We plan to update our ordinances to be consistent with the DNR model ordinances for Erosion and Post Construction.

We are completing a re-codification now, so our update will likely be past the deadline, however, if this is a problem we can do a separate update, just let me know. We would like to wait though so that we don't confuse anyone by doing an update to our current code shortly before our re-codification is approved.

**Part X. Other**

Any other municipal storm water program information for inclusion in the Annual Report regarding their storm water program may be added here or attached.

N/A

Fiscal Analysis Table. Complete the fiscal analysis table provided below.

Program Element	Annual Expenditure 2016	Budget		Source of Funds
		2016	2017	
Public Education and Outreach	\$1,953	\$2,000	\$2,000	Special Revenue Account
Public Involvement and Participation	\$1,953	\$2,000	\$2,000	Special Revenue Account
Illicit Discharge Detection and Elimination	\$3,000	\$3,500	\$3,500	Special Revenue Account
Construction Site Pollutant Control				Special Revenue Account
Post-Construction Storm Water Management				Special Revenue Account
Pollution Prevention	\$15,000	\$15,000	\$15,000	General Revenue and Approximate Staff Time
Storm Water Quality Management (including pollutant-loading analysis)				Special Revenue Account
Storm Sewer System Map	\$3,000	\$3,000	\$3,000	Developer Deposits and Approximate Staff Time
Other: WDNR Permit	\$3,000	\$3,000	\$3,000	Special Revenue Account



NORTHERN REGION COUNTIES			WEST CENTRAL REGION COUNTIES		
Ashland	Langlade	DNR Service Center	Adams	Marathon	DNR Service Center
Barron	Lincoln	Attn: Storm Water Program	Buffalo	Monroe	Attn: Storm Water Program
Bayfield	Oneida	5301 Rib Mountain Rd.	Chippewa	Pepin	5301 Rib Mountain Rd.
Burnett	Polk	Wausau, WI 54401	Clark	Pierce	Wausau, WI 54401
Douglas	Price	Phone: (715) 359-4522	Crawford	Portage	Phone: (715) 359-4522
Florence	Rusk		Dunn	St. Croix	
Forest	Sawyer		Eau Claire	Trempealeau	
Iron	Taylor		Jackson	Vernon	
	Vilas		Juneau	Wood	
	Washburn		La Crosse		

NORTHEAST REGION COUNTIES			SOUTH CENTRAL REGION COUNTIES		
Brown	Marquette	DNR Northeast Region	Columbia	Jefferson	DNR South Central Region
Calumet	Menominee	Attn: Storm Water Program	Dane	LaFayette	Attn: Storm Water Program
Door	Oconto	2984 Shawano Ave.	Dodge	Richland	3911 Fish Hatchery Rd.
Fond du Lac	Outagamie	Green Bay, WI 54313	Grant	Rock	Fitchburg, WI 53711
Green Lake	Shawano	Phone: (920) 662-5100	Green	Sauk	Phone: (608) 275-3266
Kewaunee	Waupaca		Iowa		
Manitowoc	Waushara				
Marinette	Winnebago				

SOUTHEAST REGION COUNTIES		
Kenosha	Sheboygan	DNR Service Center
Milwaukee	Walworth	Attn: Storm Water Program
Ozaukee	Washington	141 NW Barstow Street,
Racine	Waukesha	Room 180
		Waukesha, WI 53188
		(262) 574-2100