

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 Kenosha		Facility ID No. (FIN) 31157	
Mailing Address 625 52nd St	City Kenosha	State WI	ZIP Code 53140
County(s) in which Municipality is located Kenosha	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 Cathy Austin		Title City Engineer	
Mailing Address (if different from above)	City	State WI	ZIP Code
Email caustin@kenosha.org	Phone Number (include area code) (262) 653-4050	Fax Number (include area code) (262) 653-4056	
Has the contact person changed in the last year? <input checked="" type="radio"/> Yes <input type="radio"/> No			

Part III. Certification		
<p><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></p>		
Authorized Representative Printed Name Cathy Austin	Authorized Representative Title City Engineer	
Signature of Authorized Representative	Date	
Email caustin@kenosha.org	Phone Number (include area code) (262) 653-4050	Fax Number (include area code) (262) 653-4056

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 Kenosha has the annual reports available on the Kenosha Stormwater Utility website, and available for viewing in the office of Public Works at the Municipal Office Building.</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 Kenosha Stormwater Utility has held numerous meetings with the Stormwater Utility Committee regarding permit requirements. The Stormwater Utility will continue to hold and send employees to training sessions on various requirements of the permit.</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 type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>If yes, provide the title and date of storm water management plan and list any updates:</p> <p style="text-align: right;"><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>If yes, has the information been submitted to the Department?</p> <p style="text-align: right;"><input type="radio"/> Yes <input checked="" 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 an intergovernmental agreement with the Southeastern Wisconsin Clean Water network (SEWCWN) for the Public Education & Outreach, and Public Involvement portion of the permit requirements. This outlines the City as a cooperating municipality in the SEWCWN to promote the "Keep Our Waters Clean" project. The Stormwater Utility staff has been active in the network since its implementation.

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:

www.kenosha.org/departments/public-works/stormwater-utility

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 Stormwater Utility's commitment to promote Public Education and Involvement. The Stormwater Utility has partnered with the Southeastern Wisconsin Clean Water Network for this section of the General Permit.
Measurable Goal(s)	The number of events held of which the Stormwater Utility Staff and/or the Southeastern Wisconsin Clean Water Network has sponsored or held at local schools, community events and/or non-profit educational sessions.
Result(s) Achieved	In 2016 the Stormwater Utility Staff spoke to middle school science classes on 3 seperate occasions; a girl scout group once; sponsored a booth at the Kenosha Expo.
Describe any planned changes to program.	Promote the program and events on the City's new user friendly website.

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

Description of Program(s)	The Stormwater Utility's committment to encourage community members of proper stromwater practices and local volunteer opportunities.
Measurable Goal(s)	Events held of which the community can clean, beautify and/or promote and implament stormwater practices.
Result(s) Achieved	Celebrate Earth Day, Pike River Cleanup and Kenosha Harbor Market
Describe any planned changes to program.	Promote the program and events on the City's new user friendly website.

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

Description of Program(s)	An annual report completed by a consultant who inspects outfalls, and evaluates outfalls under dry weather screening.
Measurable Goal(s)	Determine how many outfalls, if any, have flowing discharge and test for ammonia, detergent, chlorine, or a combination of the above.
Result(s) Achieved	3 - ammonia; 7 - detergent; 3 - chlorine
Describe any planned changes to program.	Work with surrounding neighborhoods of the elevated test results to promot better stormwater practices, as well as notify Kenosha Water Utility for inspection of cross contamination.

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

Description of Program(s)	The City of Kenosha and the Stormwater Utility requires land disturbing activities to have an erosion control permit pulled of which Stormwater Utility Staff inspects and implements best management practices.
Measurable Goal(s)	Number of inspections and number of violations

Result(s) Achieved	337 - inspections; 70 - violations
Describe any planned changes to program.	Update Erosion Control Permit; Update and utilize "Soil erosion and Sediment Control Field Inspection" check list

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

Description of Program(s)	Dredging and maintenance of all detention basins within the City.
Measurable Goal(s)	Number of basins the City dredged during the year; number of dredging and/or soundings were performed per maintenance agreements for private basins.
Result(s) Achieved	2 City owned basins were dredged: Heritage Heights and Whitecaps
Describe any planned changes to program.	Implement requirements set forth in basin agreements with privately owned basins. Dredge Lincoln Lagoon as funding allows

6. Pollution Prevention (Section 2.6 of General Permit)

Description of Program(s)	Implementation of best management practices to existing sites and new construction to reduce the amount of pollution entering water bodies in the community.
Measurable Goal(s)	Number of construction projects
Result(s) Achieved	Waste Division Wall - reduce runoff and erosion; Beach Restoration and City Wide Planting
Describe any planned changes to program.	Lincoln Lagoon Planting

• 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.
 N/A

• 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.

Check basins within 1/2"+ rainfall events. During basin inspections erosion, condition of structures and vegetation. The Stormwater Utility plans to acquire more agreements with privately owned basins and implement requirements.

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

Street sweeping and catch basin cleaning is done when temperatures are above freezing. Streets Division has 5 sweeper trucks that follow the snow plow routes. Catch basins are cleaned if a known location is plugged after rain events but crews typically follow one snow plow route each year, cleaning all basins within that route. Typically only 1 or 2 routes are completed each year. All waste from sweeping and basin cleaning is collected in the Street Division Yard, then hauled out to a landfill once the load can fill a dump truck.

• 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.
 Shelly Billingsley, Public Works Director, 262-653-4050

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

2. The City of Kenosha uses road salt, salt brine, organic deicer, and calcium chloride. The City is capable of blending on demand but typical anti-icing is done at a 90% Brine / 10% Organic. In colder pavement temperatures Calcium Chloride may be added to form a 80/10/10 blend. All trucks are prewet enabled or the few trucks that do not have the capability will use pretreated salt from our dome. Calcium Chloride is typically used in colder temperatures (20F and falling).

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

November ('15) - 545 tons salt; 4,572 gal of salt brine; 508 gal of organic deicer; 1,411 gal calcium chloride

December ('15) - 657 tons salt; 2,690 gal of salt brine; 299 gal of organic deicer; 0 gal calcium chloride

January ('16) - 1,821 tons salt; 20,578 gal of salt brine; 2,412 gal of organic deicer; 4,593 gal calcium chloride

February ('16) - 1,033 tons salt; 19,531 gal of salt brine; 2,074 gal of organic deicer; 1,460 gal calcium chloride

March ('16) - 656 tons salt; 13,252 gal of salt brine; 0 gal of organic deicer; 1,364 gal calcium chloride

April ('16) - 0 tons salt; 0 gal of salt brine; 0 gal of organic deicer; 0 gal calcium chloride

Report the snow disposal locations, if applicable.

4. No snow disposal locations were used in 2015-2016

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

5. Anti-icing is done prior to the storm under certain conditions according to our policy. The City anti-ices at 40 gal/lb mi on all of our main roads that would be salted during a normal snow event. Both liquids and solids are calibrated per manufacturer standards usually in the fall. The City has reduced the salt rate from 250 lb/lb mi to 200 lb/lb mi and begun to prewet at all times at 7 gal/ton. Anti-icing is a part of our routine for every storm to reduce hard pack and lower the amount of salt used during the storm. The City saw a reduction of approximately 20% of salt per inch of snow from 2014-2015 to 2015-2016 season.

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

6. The City of Kenosha has begun the process of upgrading the fleet with GPS that also gives information on all dry or liquid product output so that each storm can be analyzed and data be stored. The City has expanded its anti-icing program and liquids program to further reduce salt use within the City. The City sent two members to the APWA Snow Conference in 2016 and as a result new methods will be tested in the 2016-2017 season.

• Leaf Management (Section 2.6.6 of General Permit)

Describe the management of leaves and grass clippings.

Residents can use disposable green bags to collect yard waste materials. Streets Division will collect the bags and take them to the Public Works Compost Site. Residents may also take their waste directly to the Compost Site without green bags. The material at the Compost Site is handled so it decomposes naturally on site.

• 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.

Street Division Yard - 6415 35th Avenue

Public Works Compost Site - 4071 88th Avenue

Park Division Yard - 3617 65th Street

Waste Division Yard - 1001 50th Street

Fleet Division Yard - 3617 65th Street

Kenosha Water Utility Yard - 4401 Green Bay Road

Shelly Billingsley oversees all yards with the exception of the Kenosha Water Utility (Ed St Peter - 262-653-4305). Shelly can be reached at 262-653-4050.

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

- 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.

Inspections on the municipal yards are completed daily by supervisors. There is a shelter over the oil and waste drop off location that is located in the Streets Division Yard.

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.

Improvements will be developed for storage practices and cleaning at each yard. The Public Works Safety committee and Erosion Control Inspector plan to evaluate these conditions during the summer months.

Provide information on facility inspections. Identify and address potential sources of storm water contamination. Facilities are inspected by driving each site approximately twice daily. Potential sources of water contamination may include washing mowers/equipment, or oil leaks. Although the Stormwater Utility has not had an oil spill at a facility, the potential accident exists.

Describe the municipal facility(s) employee training on storm water pollution prevention (frequency, duration, objectives, percentage of employees trained this year, etc.). The Stormwater Utility does not currently have a training program or policy. The Erosion Control Inspector does go to NASECA training for "Wisconsin Construction Site Erosion Control and Stormwater Permit Compliance Training" every three years as it is offered.

Describe the spill prevention and response procedures in place at the municipal facility(s). When a hazardous spill occurs, the Streets Division or Kenosha Fire Department will contain the spill and divert it away from storm drains. Sand may be applied for absorption, damming or diverting. Streets Division has the capability to use a transfer pump to offload leaking fuel tanks if need be. The DNR is notified of all spills immediately.

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 _____ Version _____ Reduction (%) _____

If no, include a description of any actions the municipality has undertaken during 2016 to help achieve the 20% standard. The Stormwater Utility is working with consultants to complete a city wide Stormwater Management Plan which should be completed by the end 2018.

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.

A storm sewer was added in 60th Street at Nash Park.

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 _____

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.

Stormwater Utility Service Charge Rates. Stormwater Utility service charge rates shall be established by Resolution of the Common Council, and may be amended and reaffirmed annually by Resolution of the Common Council. In setting or modifying such rates, the Common Council shall establish rates that are fair and equitable, and reflect the value of the stormwater management services, systems and facilities to those property owners who benefit therefrom. The rates shall be sufficient to

support the cost of stormwater management services, systems and facilities, including, but not limited to, the payment of principal and interest on debt obligations, lease payments, operating expenses, capital outlays, nonoperating expenses, provisions for prudent reserves and other costs as deemed appropriate by the Common Council. (Chapter 8 of the General Ordinance)

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.

A total of 70 violations were reported and 337 inspections were completed by the Erosion Control Inspector on residential, commercial and grading site projects. Illicit discharge inspections are done on 62 priority outfalls by a consultant hired by the Stormwater Utility.

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:
Des Plaines River, Fox River, Lake Michigan, North Branch of the Pike River, Pike Creek and Pike River
- 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 Stormwater Utility works with the Kenosha Water Utility and neighborhoods when an illicit discharge detection is found. Correct practices for yard care, car washing and chemical spills/disposal are topics neighborhoods are reminded of, and the Kenosha Water Utility has been working to eliminate cross connections. The Stormwater Utility also performs annual inspections of bioswales, infiltration basins and dune plantings and will perform maintenance as needed.

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

The Stormwater Utility funded several projects in 2016 that improved water quality, including the dredging of two detention basins, and City-wide plant maintenance.

- 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.

The Stormwater Utility performed illicit discharge detection, and is working with the Kenosha Water Utility and neighborhoods to eliminate detections of illicit discharges.

- 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.

The City-wide stormwater management plan is continually being worked on and is planned to be completed and accepted by the end of 2018. The current Erosion Control Permit will be updated before the summer of 2017, as well as updating and utilizing the inspection checklist as found in Chapter XXXIII of the General Ordinances.

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.

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	\$9,984	\$2,088,418	\$48,897	City of Kenosha Operational Budget
Public Involvement and Participation	\$35,552	\$82,415	\$77,492	City of Kenosha Operational Budget
Illicit Discharge Detection and Elimination	\$346,901.85	\$1,411,459.17	\$1,146,151.33	City of Kenosha Operational Budget
Construction Site Pollutant Control	\$37,164.74	\$44,494.25	\$136,342.65	City of Kenosha Operational Budget
Post-Construction Storm Water Management	\$74,487.73	\$398,317.06	\$300,439.35	City of Kenosha Operational Budget
Pollution Prevention	\$1,183,400.32	\$1,502,497.54	\$1,423,720.97	City of Kenosha Operational Budget
Storm Water Quality Management (including pollutant-loading analysis)	\$1,098,676	\$1,536,281.3	\$1,115,675.81	City of Kenosha Operational Budget
Storm Sewer System Map	\$24,783.01	\$46,049.45	\$42,322.46	City of Kenosha Operational Budget
Other:	\$567,659.12	\$786,892.19	\$676,921.99	City of Kenosha Operational Budget

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, Room
Racine	Waukesha	180
		Waukesha, WI 53188
		(262) 574-2100

