

**2015-2016 (Due by March 31, 2017)**

**For the Cities of Fitchburg, Madison, Middleton, Monona, Sun Prairie, and Verona; the Villages of DeForest, Maple Bluff, McFarland, Shorewood Hills, Waunakee, and Windsor; the Towns of Blooming Grove, Burke, Madison, Middleton, and Westport; Dane County; and the University of Wisconsin – Madison.**

This document is for the purpose of biennial reporting on activities undertaken pursuant to WPDES Permit No. WI-S058416-3 for the above listed municipalities. An owner or operator of a municipal separate storm sewer system covered by a municipal storm water discharge permit under ch. NR 216, Wis. Adm. Code, is required to submit a biennial report to the Department of Natural Resources by March 31 of every odd numbered year to report on activities for the previous two (2) calendar years. Information in the biennial report will be used by the Department of Natural Resources to assist with assessing permit compliance. Use of this specific form is optional. The Department of Natural Resources has created this form for the user's convenience and believes that the information requested on this form meets the reporting requirements for an owner or operator of a municipal separate storm sewer system covered by WPDES Permit No. WI-S058416-3. However, an owner or operator of a municipal separate storm sewer system that uses and completes this form will not automatically be deemed to be in compliance with other requirements of WPDES Permit No. WI-S058416-3.

**Complete and submit the biennial report by March 31, 2017, to the following address: Storm Water Management Specialist, Wisconsin Dept. of Natural Resources, South Central Region, 3911 Fish Hatchery Rd., Fitchburg, WI 53711**

| I. MUNICIPAL INFORMATION                                    |  |
|---|--|
| Name of municipality<br><u>City of Middleton</u>            | Contact person and title<br>Gary Huth      |
| Mailing Address<br>7426 Hubbard Ave.<br>Middleton, WI 53562 | Telephone no.<br>608-821-8370              |
|   | Fax no.<br>608-827-1080                    |
|   | E-mail address<br>ghuth@ci.middleton.wi.us |

Does the municipality have an internet website?  Yes  No  
If yes, provide internet address:  
www.CityOfMiddleton.us

If the municipality has an internet website, is there current information posted about or links provided to the municipal storm water discharge permit and the municipality's storm water management program?  Yes  No  
If yes, provide internet address:  
Permit and Annual / BiAnnual Reports: <http://www.ci.middleton.wi.us/index.aspx?NID=279>  
Storm Water Management Program: <http://www.ci.middleton.wi.us/index.aspx?NID=286>

| II. CERTIFICATION  |   |
|--|---|
| <i>I certify 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 the biennial report.</i> |   |
| Authorized representative printed name<br>Lorie J Burns  | Authorized representative title<br>City Clerk |
| Authorized representative signature<br>   | Date signed<br><u>3/24/17</u>                 |

**III. GENERAL INFORMATION**

a. Has the municipality made any changes under its legal authority that affects implementation of the requirements of the municipal storm water discharge permit (e.g., changes to ordinances)?  Yes  No  
 If yes, describe the changes in **Appendix A**.

b. List the people who attended quarterly meetings on behalf of the municipality and indicate the quarterly meetings in which the municipality was represented for the reporting years.

| <u>Name</u>     | <u>Title</u>              | <u>Affiliation</u> |
|-----------------|---------------------------|--------------------|
| Gary Huth       | Asst. Dir Public Works    | City of Middleton  |
| Richard Weihert | Engineering Technician II | City of Middleton  |
|                 |                           |                    |
|                 |                           |                    |

c. Quarterly meetings represented:  February 2015     May 2015     August 2015     November 2015  
 February 2016     May 2016     August 2016     November 2016

d. Describe in **Appendix A** how the municipality internally coordinates implementation of the requirements of the municipal storm water discharge permit between the municipality's agencies, departments, and programs. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

e. Describe in **Appendix A** how elected and municipal officials and appropriate staff are kept apprised of the municipal storm water discharge permit. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

f. What is the date of the latest municipal-wide storm water management plan update? 11/30/2016

**IV. Permit Conditions**

**a. Public Education and Outreach**

Dane County only:

1. Has any municipality failed to submit its financial contribution in accordance with the *Intergovernmental Agreement to Create and Fund a Position Responsible for Storm Water Management Education and Outreach*?  Yes  No

If yes, list municipalities:

2. Describe in **Appendix B** the Information and Education plan implementation and activities for the reporting years, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

All municipalities:

3. Describe in **Appendix B** how any materials produced by Dane County on behalf of the municipality have been used and/or distributed. Provide examples.

4. Describe in **Appendix B** any individual information and education activities undertaken for the reporting years, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

**b. Public Involvement and Participation**

1. The group permit requires that the information in this biennial report be an agenda item for discussion before the appropriate governing board(s) or council(s) contemporaneous with the submittal of the biennial report to the Department of Natural Resources. Accordingly, please provide the following information:

2. Name of board(s)/council(s):

City of Middleton Common Council

3. Date(s) of meeting(s) to discuss the biennial report:

Scheduled for March 7, 2017

Link to minutes: <http://sire.cityofmiddleton.us:81/mtgviewer.aspx?meetid=2163&doctype=MINUTES>

4. Describe in **Appendix B** the opportunities and types of forums for public involvement and participation in permit related activities that occurred during the reporting years. Include an assessment of the effectiveness of efforts to involve the public and the level of participation.

**c. Illicit Discharge Detection and Elimination**

1. Describe in **Appendix B** the illicit discharge detection and elimination program developed to comply with the permit. Include information on the municipality's strategy to prevent, detect, and eliminate all types of illicit discharges; how priorities are established for field screening and the methodologies to be used for field screening; and procedures for responding to and rectifying illicit discharges to the MS4, including spills, improper disposal of waste or dumping. Also include an assessment of the effectiveness of detection and elimination of illicit discharges, prevention of improper disposal of waste and dumping, the handling of spills, and any enforcement efforts involving these activities.

2. Has the municipality performed any field screening for the reporting years?  Yes  No

As observed incidental to routine maint.

If yes, please provide documentation in **Appendix B** the results of the field screening.

3. Has the municipality investigated any instances of spills, improper disposal of waste or dumping?  Yes  No

If yes, please provide documentation in **Appendix B** the results of the investigations.

4. Describe in **Appendix B** how the municipality facilitates public reporting of illicit discharges.

**d. Construction Site Pollution Control**

1. Does the municipality notify landowners who apply for local construction or land disturbing permits of the possible applicability of subch. III of ch. NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, to the landowners' construction projects?  Yes  No

If yes, please explain the process for providing this notification. If no, please explain why this notification is not provided.

City has included on its Land Disturbing Permit Application form the following statement:

"If your construction site includes 1 or more acres of land disturbance and it is not a commercial building site, you also need to obtain storm water construction site permit from the Department of Natural Resources (with few exceptions). For more information, see the DNR Construction Site Erosion Control and Storm Water Management web site at:

<http://www.dnr.state.wi.us/runoff/stormwater/const.htm> or contact Eric Rortvedt (DNR Storm Water Engineer) at 273-5612."

Dane County staff routinely provides

2. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

3. Describe in **Appendix B** the procedures the municipality employs for the inspection of construction sites and enforcing erosion control standards. Provide documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for a construction site where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

4. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards.

Scott Ellarson, Building Inspector - approves plans, oversees Dane County plan review, E.C. inspection  
Bill Neitzel, Building Inspector - approves plans, oversees Dane County plan review, E.C. inspection  
Rich Weihert, Engineering Tech III - approves plans, performs erosion control inspection  
Mark Walther, Compliance Officer - monitors field conditions for compliance of a variety of ordinances  
7426 Hubbard Ave.  
Middleton, WI 53562

5. Include in **Appendix B** an assessment of the municipality's construction site pollution control program effectiveness in meeting the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, including enforcement efforts.

**e. Post-Construction Site Storm Water Management**

1. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

2. Describe in **Appendix B** the procedures the municipality employs for inspecting the construction and installation of storm water best management practices and enforcement actions to ensure compliance with post-construction storm water management standards. Provide documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for non-compliance with post-construction storm water management standards for sites where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

3. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards, and the requirements of subch. III of ch. NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, where applicable.

Shawn Stauske, Public Works Dir. / City Engineer - designs public improvement projects, oversees PW policies  
Gary Huth, Asst Public Works Dir. / Asst City Engineer - staff to WRMC, reviews plans/storm calcs, drafts ordinances  
7426 Hubbard Ave  
Middleton, WI 53562  
608-821-8370

4. Include in **Appendix B** an assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts.

**f. Municipal Pollution Prevention**

1. List in **Appendix B** an inventory of long-term storm water best management practices owned, operated, managed, or maintained by the municipality. Include storm water basins, infiltration practices, treatment structures, and other practices for long-term water quality treatment. For each best management practice, provide the name, location, type of practice, and any maintenance activities undertaken for the practice during the reporting years. Also in **Appendix B**, provide a description of the maintenance procedures used and schedules for each long-term storm water best management practice and the approximate amount of solids collected (tons or cubic yards) from any structural control receiving maintenance.

2. Does the municipality perform catch basin cleaning?  Yes  No  
If yes, approximate amount of solids collected (tons or cubic yards): 42 C.Y. (sumps); 79 C.Y. (trash racks). Describe in **Appendix B** the procedures used and schedules for catch basin cleaning. If no, explain:

3. Does the municipality perform street sweeping?  Yes  No  
If yes, approximate number of street miles swept: 3,476 lane miles; approximate amount of solids collected (tones or C.Y.): 1,113 C.Y. sediment; 2067 C.Y. leaves. Describe in **Appendix B** the procedures used and schedules for street sweeping. If no street sweeping is performed, explain:

4. Describe in **Appendix B** the municipality's procedures for roadway snow removal and de-icing. Provide information on what practice and procedures the municipality has implemented in consideration of water quality impacts from snow removal and de-icing. Include an estimate of the annual amount of salt and/or sand used for roadway de-icing.  
2,171 tons road salt; 0 tons sand; 84,600 gal salt brine

5. Does the municipality haul snow to off-site disposal locations?  Yes  No  
If yes, provide in **Appendix B** the location of all off-site snow disposal locations and describe what practices and procedures are used to protect water quality from snow and ice melt from the disposal site.

6. Does the municipality own or operate salt storage facilities?  Yes  No  
If yes, provide in **Appendix B** the locations of all salt storage facilities. Are all salt storage facilities managed in accordance with ch. Trans 277, Wis. Adm. Code?  Yes  No

7. Does the municipality provide curbside pickup service for leaves, yard waste, and grass clippings?  Yes  No  
If yes, approximate amount of material collected (tons or cubic yards): 16,422 C.Y.

8. Describe in **Appendix B** the municipality's procedures for the collection of leaves, yard waste, and grass clippings, and/or instruction to citizens for on-site management of these items. Provide the location of sites used by the municipality or citizens for the disposal of leaves, yard waste, and grass clippings.

9. Describe in **Appendix B** the municipality's policies and procedures for the use and application of lawn and garden fertilizers on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.

10. Describe in **Appendix B** any local program the municipality employs to regulate the private use of lawn and garden fertilizers.

11. Include in **Appendix B** an assessment of the effectiveness of the municipality's pollution prevention efforts through the municipal pollution prevention program.

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**V. STORM SEWER SYSTEM MAP**

City of Madison only:

a. Has any municipality failed to submit its hard copy changes for the storm sewer system map by January 31, 2017?

Yes  No If yes, list municipalities:

b. Attach in **Appendix C** a copy of the updated storm sewer system map.

All municipalities:

c. Has the municipality updated and maintained documentation of all storm sewer outfalls from its MS4 to waters of the state?

Yes  No

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**VI. Water Quality Concerns**

a. Does any part of the MS4 discharge to 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:

Black Earth Creek

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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, 22 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/topic/impairedwaters/>  Yes  No

If yes, identify the following information in **Appendix D**:

- Impaired Waterbody to which the MS4 discharges.
- Description of actions municipality has taken to comply with section A(13) of the MS4 permit for discharges of pollutant(s) of concern to an impaired waterbody.

c. In **Appendix D**, identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

d. In **Appendix 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:

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#### **VII. ADDITIONAL INFORMATION**

a. Provide in **Appendix E** a description of any revisions or proposed revisions to any element of the municipality's storm water management program.

b. Provide in **Appendix E** an updated listing and contact information for any new industrial facilities that may be regulated under subch. II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period.

c. Provide in **Appendix E** a summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of.

d. Complete the fiscal analysis table provided below.

| Program Element                                      | 2015 Annual Expenditure | 2016 Annual Expenditure | 2017 Budget | 2018 Budget | Source of Funds  |
|--|-------------------------|-------------------------|-------------|-------------|--|
| <b>Public Education and Outreach</b>                 | 7,165                   | 7,423                   | 7,700       | N/A         | Water Resources Operating Budget   |
| <b>Public Involvement and Participation</b>          | 5,400                   | 5,400                   | 5,500       | N/A         | Personnel Operation Budget from General Fund Taxing Levies: Answering general questions from the public; site investigations; City committees; website   |
| <b>Illicit Discharge Detection and Elimination</b>   | 2,000                   | 2,000                   | 5,000       | N/A         | Personnel Operation Budget from General Fund Taxing Levies   |
| <b>Construction Site Pollution Control</b>           | 28,480                  | 53,930                  | 70,000      | N/A         | Plan review and site inspection costs are funded from permit fees per fee schedule in ordinance.   |
| <b>Post-Construction Site Storm Water Management</b> | 643,870                 | 1,577,250               | 546,500     | N/A         | Plan review and site inspection costs are funded from permit fees per fee schedule in ordinance; Other funding includes Capital Budget, Operating Budget |
| <b>Municipal Pollution Prevention</b>                | 478,950                 | 394,600                 | 470,000     | N/A         | Operating Budget from General Fund Taxing Levies<br>Subsequent year's budget is an estimate only.  |

e. What is the overall estimated annual cost to the municipality for compliance with the permit in 2015? \$1,165,900      2016? \$2,040,600

f. Has the municipality implemented a storm water utility?  Yes     No, but considering     No, and not considering  
 If yes, provide a description of the storm water utility in **Appendix E** and any additional information that will assist the Department of Natural Resources in understanding how the utility works in your municipality.

## **Appendix A**

### **General Information**

**III.a.** Describe the changes in Appendix A any changes under its legal authority that affects implementation of the requirements of the municipal storm water discharge permit (e.g., changes to ordinances).

No changes were made to the Erosion Control ordinance.

The Storm Water Runoff Control ordinance was amended to:

- require for storm water management facilities that are to be dedicated eventually to the public that developers maintain the facilities until: development is 90% built out; facilities are restored to their design condition; and plantings have survived and flourished for at least 3 growing seasons
- require property owners with recorded Storm Water Management System Maintenance Agreements to submit every two years a condition report certified by a professional engineer or professional hydrologist.
- clarify the definition of “infiltration.”

The Storm Water Utility Ordinance was amended to:

- clarify the scope of authority the Storm Water Utility Board has to determine which projects are subject to funding by the Utility
- clarify the definitions for “adjustment” “City Engineer” “credit” “condominium” “developed parcel” “equivalent runoff unit” “multifamily residential parcel” “residential parcel” “Storm Water Utility Board” “Storm Water Utility Manager” “undeveloped parcel”
- clarify the applicability of storm water utility charges
- clarify the applicability of storm water utility fee credits and adjustments
- make specific reference to a Credit Manual to be used to determine how credits are calculated and applied
- reduce fee for residential credit applications to \$100
- other minor language clarifications

**III.d.** Describe in Appendix A how the municipality internally coordinates implementation of the requirements of the municipal storm water discharge permit between the municipality’s agencies, departments, and programs. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

The City’s Water Resources Management Commission (WRMC) provides the lead in setting policy and providing recommendations to the Common Council regarding issues related to the management of storm water, erosion control and general matters related to any of the water resources of the City. Various staff within the Planning Department, the Department of Public Works, and the Building Inspection Department review submitted plans. Each department provides written comments to the submitter with copies to committees as applicable. The Plan Commission (PC) makes referrals when warranted to the WRMC and provides review comments to the Public Works Committee. At times, staff will take the initiative to seek input from the WRMC regarding a specific submission.

In addition to reviews performed in-house, the City has contracted with Dane County Land Conservation to provide the City with plan review and site inspection services for both Erosion Control and Storm Water Management plans. Dane County staff makes recommendations on any required enforcement action, which is then performed by City personnel.

The various committees provide broad direction to the plan submitter and delegate to staff the responsibility to ensure plans comply with the broad directives as well as applicable ordinances, codes, procedures, policies and practices. City staff and members of the Common Council and various committees receive copies of minutes of the meetings.

Staff attends the quarterly meetings with the Madison Area Municipal Storm Water Partnership (MAMSWaP) group and briefs the WRMC and department heads on developments as appropriate. Staff has also joined DNR in the formation of a Green Tier Charter to seek more effective ways to realize improvements to waters of the state through cooperation and coordination.

Staff also attends meetings of the Yahara WINS group which oversees the Adaptive Management Plan implementation.

In 2016, staff participated in:

- the Storm Water Technical Advisory Committee established to re-evaluate infiltration standards;
- the Yahara WINS sub-group formed to revise the grant application process and requirements; and
- the MAMSWaP subcommittee that developed the new County-wide brand for storm water topics.

The City also has a Conservancy Lands Commission which sets policies for the Public Lands Department with respect to managing conservancy lands in the City. Management activities include implementing vegetation plantings in wetlands and pond buffer areas, and installing and maintaining channel bank stabilization measures along Pheasant Branch and other drainage ways. These management activities enhance the water quality and ecosystems and reduce erosion from channel banks.

Historical Note: In the fall of 2014, the City adopted a Storm Water Utility and created a Storm Water Utility Board. The Board met for the first time in January, 2015. City staff serves as Secretary for the Board. The Board is comprised of members of the City Common Council, Parks Recreation and Forestry Commission, Public Works Committee, Conservancy Lands Committee and Water Resources Management Commission. This facilitates coordination among the policy setting bodies of the City on inter-related storm water planning, design and maintenance issues.

Historical Note: The City received a Gold Star rating in 2010 from the Water Star Wisconsin program.

**III.e.** Describe in Appendix A how elected and municipal officials and appropriate staff are kept apprised of the municipal storm water discharge permit. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

See answer III d. above.

Minutes can be downloaded at the following link:

<http://sire.cityofmiddleton.us:81/meet.aspx>

## Appendix B

### Storm Water Management Program

**IV.a.1** (Dane Co. only)

**IV.a.2.** (Dane Co. only)

**IV.a.3.** Describe in **Appendix B** how any materials produced by Dane County on behalf of the municipality have been used and/or distributed. Provide examples.

Specific activities include:

| DATE       | DESCRIPTION  |
|------------|--|
| 09/22/2015 | Forwarded brochures for Salt Application Workshop to School District Maintenance Supervisor                |
| 09/23/2015 | Leaf Management Flyers distributed City Hall, Library  |
| 09/27/2015 | Leaf Management Flyers placed on notify me web site, and City News   |
| 09/23/2015 | Love Your Lakes Flyer distributed City Hall, and Library   |
| 09/27/2015 | Love Your Lakes Flyer placed on notify me web site, and City News  |
| 09/23/2015 | Leaf Management letter distributed City Hall, Library  |
| 09/27/2015 | Leaf Management letter placed on notify me web site  |
| 10/01/2015 | Don't Leaf your Lakes ad in WI State Journal   |
| 10/15/2015 | Winter parking lot and Sidewalk Maintenance work shop attended by xxx street crew members                  |
| 11/05/2015 | Installation of Don't Leaf Your Lakes signs in Park Terrace Areas (9)                                      |
| 01/04/2016 | Forwarded information to Streets and Parks for employee information.                                       |
| 01/04/2016 | Placement of Homeowner/Motorists/Applicators Links on Notify Me website.                                   |
| 02/05/2016 | Distributed WI Salt Wise Retailer Toolkits to local retailers  |
| 02/24/2016 | Provided Madison Compost Bin and Rain Barrel Sale Information on Civic plus that was sent out to citizens  |
| 04/15/2016 | Signed up for storm drain painting project, with Dane County United Way                                    |
| 04/15/2016 | Posted City of Madison Compost Bin and Rain Barrel event for May 7th of City Web Page                      |
| 05/13/2016 | Provided Rock River Water source training opportunity to Middleton Cross Plains School Teachers Grades 4-9 |
| 8/26/2016  | Participating in test project for Dane County in leaf removal from streets in test area.                   |
| 9/16/2016  | Printed and distributed leaf racking brochure to library and city hall information areas.                  |
| 9/16/2016  | Published Leaf Free Streets article on Notify Me   |
| Fall, 2016 | Leaf Out of Streets - Pilot Project  |
| 10/3/2016  | Placed Love Your Lakes Signs in Parks throughout the City of Middleton                                     |
| 10/12/2016 | Leaf ad run in local paper; Oct 13 and Oct 27  |
| 12/20/2016 | Salt Wise Flyer Posted on Web Site   |
| 12/20/2016 | Salt Wise Flyer Restocked Library and City Hall Distribution Points  |
| 12/27/2016 | Webpage Upgrade Includes Lakeshore Property Packages   |

Relevant City website links include:

<http://www.ci.middleton.wi.us/index.aspx?nid=186>

<http://www.ci.middleton.wi.us/index.aspx?nid=396>

**IV.a.4.** Describe in Appendix B any individual information and education activities undertaken for the reporting year, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

In 2016, the City cooperated with a MAMSWaP pilot project to study the public's compliance rate with an initiative to encourage homeowners to remove leaves from streets that abut their properties.

The City has placed on display at three locations (City Hall, Public Works, Public Library) free copies of various pamphlets provided by MAMSWaP. (Copies previously submitted to DNR.)

- Love Your Lakes, Don't Leaf Them
- In Dane, Only the Rain goes down the drain
- Don't Leaf Them

The City includes relevant articles in its semiannual newsletters. The current newsletter is posted at:

<http://www.ci.middleton.wi.us/index.aspx?NID=108>

Copies of previous newsletters are available upon request.

Also available at the Public Library in Middleton is a copy of the storm water educational video, "Dane Waters: A Reflection on Us All," developed by MAMSWAP. The Public Works Department has a publicly accessible rack of various publications and pamphlets from Dane County / City of Madison Clean Sweep.

Trail signs throughout the City provide public education related to environmental issues.

Other past activities include:

- Placed Yard Signs for Leaf Collection on City lands to advise the public not to rake leaves into the street.
- Distributed Love your Lakes Don't leaf them coasters to area business.
- Distributed "Plant Dane!" Rain Garden program flyers at City Hall and Public Library, and sent notice of program to Middleton Times Tribune for publication.

**IV.c.1.** Describe in Appendix B the illicit discharge detection and elimination program developed to comply with the permit. Include information on the municipality's strategy to prevent, detect, and eliminate all types of illicit discharges; how priorities are established for field screening and the methodologies to be used for field screening; and procedures for responding to and rectifying illicit discharges to the MS4, including spills, improper disposal of waste or dumping. Also include an assessment of the effectiveness of detection and elimination of illicit discharges, prevention of improper disposal of waste and dumping, the handling of spills, and any enforcement efforts involving these activities.

City staff and crews perform routine observations as part of normal facilities inspections. Crews are instructed to watch for any suspect discharges observed in the course of routine maintenance operations, and report same to the City Engineer. The City Plumbing Inspector performs checks of existing commercial sites during inspections of permitted remodeling projects to identify any code violations or cross-connections. In addition, staff periodically conducts site visits to major outfalls to determine whether dry weather flows are occurring. No illicit discharges were reported in this reporting period.

In the coming biennium, the City will reinstate a program of systematic reviews of outfalls to detect potential illicit discharges through storm sewers.

**IV.c.2.** See narrative above.

**IV.c.3.** If yes, please provide documentation in Appendix B the results of the spill investigations.

Staff found no record of improper disposal of waste or of dumping. City crews on occasion will also respond to spills that are incidental to car crashes. However, the Fire Department responds to the majority of minor spills and all major spills since its crews are trained in handling of hazardous waste. For routine minor spills, crews will place an oil dry product on the spilled fluids and allow it to stand for 24 hours. The City street crew will sweep the site the following day using the power street sweeper. The sweepings are ultimately dumped at the municipal landfill.

See **Exhibit 1** for summaries of minor spill cleanup for this reporting period.

**IV.c.4.** Describe in Appendix B how the municipality facilitates public reporting of illicit discharges.

Upon receipt of a notice of a spill, the Fire Department notifies Dane County Communications Center of the site location and severity of spill hazard. After clean-up is completed, FD staff fills out a spill report and files same on site.

**IV.d.2.** Describe in Appendix B the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

See narrative in next subsection.

**IV.d.3.** Describe in Appendix B the procedures the municipality employs for the inspection of construction sites and enforcing erosion control standards. Provide documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for a construction site where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

The City of Middleton has an intergovernmental agreement with Dane County for their staff to perform comprehensive reviews of erosion control and storm water runoff control plans, and inspections of active construction sites. The City requires permit applicants to provide a copy of submitted erosion control and storm water runoff control plans to the LCD whose staff reviews the plans to determine whether they meet the standards set forth under Middleton Municipal Code, Chapter 28 and NR 151. Where applicable, D.C. staff will notify the permit applicant of potential NR 216 requirements. If the submitted plan meets the erosion control requirements, LCD staff notifies the municipal official that the plan is complete. The authorized municipal official then issues the applicant an erosion control and storm water runoff control permit.

All active construction sites are inspected on a weekly basis. Frequency of inspections may increase based on weather conditions, scale of the construction activity, whether a site is in a sensitive area or has a greater potential for damage due to erosion, and when follow-up is required due to enforcement action.

When a non-compliance issue has been identified during an inspection, the inspector first tries to contact the designated person listed on the erosion control plan. For sites where the non-compliance issue is minor and has not been committed blatantly, the inspector will verbally give the developer a deadline to bring the site back into compliance. The vast majority of non-compliance issues are corrected in this manner, but if the verbal deadline is not met, an enforcement memo is sent to the developer and the City. The memo outlines the necessary actions to be completed by a specific time and date in order to avoid an enforcement action. Enforcement actions are carried out by City staff at the recommendation of the LCD and may include stop-work orders, citations, or a combination of both. The City determines the type and magnitude of the enforcement action. Stop-work-orders remain in effect and citations continue (each day is considered a new violation) until the LCD inspects the site and deems it in compliance.

If a non-compliance issue has been committed blatantly or if there is potential for significant erosion to occur, immediate enforcement action is recommended to the City. The City has the ability to issue a stop-work order, without notice, when conditions warrant immediate action.

See below for Dane County Services Summary for Erosion Control and Storm Water Runoff Control Plan Review and Site Inspections.

| 2015 / 2016 SEDIMENT COLLECTION TOTALS |   |                 |             |               |               |
|--|---|-----------------|-------------|---------------|---------------|
| DEPT                                   | DESCRIPTION   | 2015 / 16 QUANT | UNITS       | 2015 QUANTITY | 2016 QUANTITY |
| Streets                                | Salt Usage  | 2,171           | Tons        | 916           | 1,255         |
| Streets                                | Sand Usage  | 0               | Tons        | 0             | 0             |
| Streets                                | Street Sweeping-leaves: quantity removed                      | 2,067           | C.Y.        | 801           | 1,266         |
| Streets                                | Street Sweeping-sediment: quantity removed                    | 1,113           | C.Y.        | 612           | 501           |
| Streets                                | Hours Sweeper Run   | 1,193           | Hrs         | 528           | 665           |
| Streets                                | Num Loads of Water for Sweeper                                | 268             | Water Loads | 148           | 120           |
| Streets                                | Lane Miles Driven   | 3,476           | Lane Miles  | 1,628         | 1,848         |
| Streets                                | Brush collection: quantity removed                            | 6,270           | C.Y.        | 3,180         | 3,090         |
| Streets                                | Leaf/Yard Waste collection: quantity removed                  | 10,152          | C.Y.        | 5,580         | 4,572         |
| Streets                                | Catch Basins: quantity of sediments removed                   | 42              | C.Y.        | 18            | 24            |
| Streets                                | Sediment Hauled from Trash Racks on Park & Allen              | 79              | C.Y.        | 24            | 55            |
| Streets                                | Illicit Discharges Found and Fixed                            | 0               |             |               |               |
| Streets                                | Salt Brine Useage   | 84,600          | GAL         | 25,300        | 59,300        |
|  |   |                 |             |               |               |
| Inspection                             | Active Sites  | 76              |             | 33            | 43            |
| Inspection                             | Plan Reviews - Erosion Control                                | 102             |             | 38            | 64            |
| Inspection                             | Plan Reviews - Storm Water                                    | 75              |             | 25            | 50            |
| Inspection                             | Inspections - Dane County                                     | 1,039           |             | 367           | 672           |
| Inspection                             | Inspections - City  | 2,782           |             | 1,427         | 1,355         |
| Inspection                             | Contacts - Dane County  | 97              |             | 9             | 88            |
| Inspection                             | Contacts - City   | 26              |             | 4             | 22            |
| Inspection                             | Notices of Noncompliance - Dane County                        | 7               |             | 0             | 7             |
| Inspection                             | Notices of Noncompliance - City                               | 9               |             | 0             | 9             |
| Inspection                             | Recommendations for Enforcement Action - Dane County          | 0               |             | 0             | 0             |
|  |   |                 |             |               |               |
| Inspection                             | Citations Issued for E.C. **                                  | 0               |             | 0             | 0             |
| Inspection                             | Citations Issued for S.W. **                                  | 0               |             | 0             | 0             |
|  | ** Please provide brief explanation for any citations issued. |                 |             |               |               |
|  |   |                 |             |               |               |
| Inspection                             | Expenditures for Report Year                                  | \$38,159        |             | \$12,738      | \$25,421      |
| Inspection                             | DC Hours for E.C.   | 398.1           |             | 132.9         | 265.2         |
| Inspection                             | DC Hours for S.W.   | 105.5           |             | 34.9          | 70.6          |
|  |   |                 |             |               |               |
| Inspection                             | DC Charge Out Rate  |                 |             | \$75.91       | \$75.70       |
| Inspection                             | DC Charge Out Rate (Subsequent year - Estimated)              | \$76.09         |             |               |               |
|  |   |                 |             |               |               |
| Inspection                             | Illicit Discharges Found and Fixed                            | 0               |             | 0             | 0             |
|  |   |                 |             |               |               |

See below for Dane County Services summary of Notices of Non-Compliance.

| Permit Number | Notice of Noncompliance Issued Date | Project Name                           | Address           | Permit Type     |
|---------------|-------------------------------------|--|-------------------|-----------------|
| 023388        | 9/1/2016                            | Lisa Lane Redevelopment                | 7625 Lisa Ln      | Land Disturbing |
| 024473        | 9/8/2016                            | Lehmann House                          | 5705 Century Ave  | Land Disturbing |
| 023661        | 11/1/2016                           | Market West Development                | 8430 Market St    | Land Disturbing |
| 023393        | 11/15/2016                          | Brownpoint Reserve Apartments          | 8850 Blackhawk Rd | Land Disturbing |
| 024330        | 11/15/2016                          | Gammex Bldg Addition & Site Renovation | 7600 Discovery Dr | Land Disturbing |
| 023631        | 11/15/2016                          | Middleton Center - Phase 1             | Hubbard Ave       | Land Disturbing |
| 024336        | 11/16/2016                          | Cardinal Row                           | 2317 Parmenter St | Land Disturbing |

**IV.d.5.** Include in Appendix B an assessment of the municipality's construction site pollution control program effectiveness in meeting the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, including enforcement efforts.

The construction site erosion control portion of the water quality program has been a major success because of the time, effort and expertise provided by Dane County personnel. In addition, the City has a part-time compliance officer who responds to complaints regarding erosion control.

**IV.e.1.** Describe in Appendix B the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

The City hires Dane County to perform all Erosion Control and Storm Water Management plan submittals and to perform the follow-up inspections during and after construction. Land Disturbing Permits are issued only upon complete review and approval of the EC and SW plans by Dane County staff. Active sites are inspected approximately once per week, more often if problems are noted or complaints received. These inspections are in addition to complaint responses by the Compliance Officer.

In addition, the City requires developers to deposit funds, for any developments that include public improvements, to pay for full-time construction observation. The construction observer is hired by the City to ensure compliance with City standards for construction and with erosion control measures and storm water management practices. Deficiencies are identified and corrected, typically within 24 to 48 hours of occurrence.

The City Developer Agreement also requires a Letter of Credit to cover the warranty period following acceptance of the public improvements. This LOC provides financial protection against any failures of the Erosion Control Measures during the warranty period.

**IV.e.2.** Describe in Appendix B the procedures the municipality employs for inspecting the construction and installation of storm water best management practices and enforcement actions to ensure compliance with post-construction storm water management standards. Provide documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for non-compliance with post-construction storm water management standards for sites where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

The City of Middleton has an agreement with Dane County for their staff to perform comprehensive reviews of storm water runoff control plans and calculations submitted by developers (or for plans developed in-house for small projects) for compliance with the requirements of Middleton ordinance, Chapter 26, and NR 151.12 and 151.24. For large City projects, the City may hire a consultant to assist with the plan preparation and review.

Dane County staff prepares review comments which are supplemented by City staff comments as may be warranted. These comments are sent to the developer's engineer as notification of any deficiencies in the plan and copies of the comments and plan are submitted to the Water Resources Management Commission for input from the members. The project engineer generally attends these meetings to brief the Commission on the plan and to solicit feedback regarding suggested improvements to the plan. Resubmitted plans undergo the same review and comment procedure and, if needed, are brought back to the WRMC for further review and approval.

The City uses a template Storm Water Management Maintenance Agreement form (copy available on web site) that must be completed and signed by the developer and the City to identify a party responsible for long term maintenance of the storm water runoff control practices.

Since early 2005, the City approval process has included the issuance of a permit for storm water runoff control practices. The permit includes an attendant fee schedule to cover the cost of plan review and site inspections.

Construction observation services for a given project are performed by City consultants. The City has standing agreements with several firms to provide such services on an as-needed basis. For developer projects, the City requires developers to deposit fees sufficient to cover the cost of these services. For City projects, the cost is included in the project budget. The construction observer will perform a final review of the project prior to final acceptance of the project by the City (public controls) or prior to release of the Letter of Credit guaranteeing the proper construction of the project (private controls).

When a non-compliance issue is identified during an inspection of a developer project, the construction observer first contacts the developer's project engineer to inform the engineer of the necessary corrective actions. If a problem persists, the construction observer will notify the City Engineer as well. A call from the City Engineer to the project engineer is generally sufficient to achieve project compliance with the approved plan.

## OTHER TOPICS

The City was awarded a Gold Star rating from the Water Star Wisconsin program for excellence in water resources management, protection and conservation.

The City coordinated with DNR to form a Green Tier Charter, whereby members work cooperatively to enhance the effectiveness of programs for water resources management and for sustainability. The kick-off meeting was held in early 2011.

City staff attends the annual NASECA seminar.

In 2016, the City contracted for the dredging of Orchid Heights Ponds (Northlake) and of Confluence Pond. The former was completed while the latter had to be carried over to spring of 2017 due to unanticipated field conditions. To facilitate the periodic dredging of Confluence Pond, the City acquire a three acre parcel nearby for dewatering of the dredge materials.

**IV.e.4.** Include in Appendix B an assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts.

The efficacy of the City's efforts over the years has been exceptional as evidenced by the monitoring by USGS of Pheasant Branch at US 12. This monitoring shows significant reductions in sediments and phosphorus, even as the stream flows have trended to higher flow rates.

**IV.f.1.** List in Appendix B an inventory of long-term storm water best management practices owned, operated, managed, or maintained by the municipality. Include storm water basins, infiltration practices, treatment structures,

and other practices for long-term water quality treatment. For each best management practice, provide the name, location, type of practice, and any maintenance activities undertaken for the practice during the reporting year. Also in Appendix B, provide a description of the maintenance procedures used and schedules for each long-term storm water best management practice and the approximate amount of solids collected (tons or cubic yards) from any structural control receiving maintenance.

Drainage ways are inspected annually or biannually for sediment build-up and vegetation overgrowth. Maintenance is performed as needed. Sediment traps on drainage ways are inspected weekly and after storms and are cleaned as needed.

The City signed an agreement with a consultant to perform a detailed field inspection of approximately 55 storm water control features in 2013. This inspection identified four major candidates where facility upgrades may be feasible. The City will evaluate options for such upgrades during the coming biennium.

See **Exhibit 2** for a current inventory of storm water controls.

**IV.f.2.** Describe in Appendix B the procedures used and schedules for catch basin cleaning.

City crews inspect inlets and manholes annually for structural damage and leaking, and perform repairs as needed. Once per year in the spring, City crews visit virtually every catch basin in the storm sewer system. Using a Vactor truck, they clean the water and sediments from the sump. Sumps may be cleaned a second time in the fall as time permits. Sediments are deposited in the yard at the City garage and are later transported to the landfill.

See **Exhibit 3** for list of quantities of sediments collected.

**IV.f.3.** Describe in Appendix B the procedures used and schedules for street sweeping.

Sweeping is done almost daily during non-winter (non-freezing weather) months, approximately March through November. The sweeper covers every street in the City a minimum of approximately once per month, and high-use / heavy-load streets approximately twice per month. The latter includes primarily the truck routes. The sweeping is done principally in the outside lane, against the curb. Parking prohibitions are not used to facilitate sweeping. Hence, if a parked car is encountered, the sweeper circumvents it. Sweepings are dumped at the landfill.

**IV.f.4.** Describe in Appendix B the municipality's procedures for roadway snow removal and de-icing. Provide information on what practice and procedures the municipality has implemented in consideration of water quality impacts from snow removal and de-icing. Include an estimate of the annual amount of salt and/or sand used for roadway de-icing.

The County performs snow removal on County routes. City crews use snow plow trucks which carry salt in the truck box. Plowing typically begins upon snowfall of 2". Depending on the forecast, salt will be applied prior to a snow or freezing rain that may result in treacherous conditions.

A typical salting pattern includes approaches to intersections, horizontal curves, hills, and school zones. When pavement temperatures fall below 15° F, salt is not applied – sand is used instead for traction, if needed. Salt typically is not applied to flat, low traffic, mid blocks of streets. Ice storms require more salting of the streets. In extreme cases, salt is applied to all streets. The City also has begun to use brine on the streets to effect more efficient pre-snowfall resistance to icing on the roadways. This method proves very effective in the appropriate temperature ranges in that it sticks to the pavement better and is less wasteful.

The trucks have remote controlled tailgate spreaders to regulate the salt application to target amounts, and the spreaders are calibrated each fall when reinstalled on the trucks.

See **Exhibit 3** for summary of salt and sand usage.

**IV.f.5.** If yes, provide in Appendix B the location of all off-site snow disposal locations and describe what practices and procedures are used to protect water quality from snow and ice melt from the disposal site.

Occasionally, the City will haul excess snow from parking lots and street corners to Quisling Park parking lot on Airport Rd. An end loader is used to fill a dump truck for transport. No additional salt is added. The site has a very flat gradient. Approximately 150 feet of grass lies between the edge of the parking lot and the nearest drainage ditch.

**IV.f.6.** If yes, provide in Appendix B the locations of all salt storage facilities.

The salt shed is located on the same site as the City Municipal Operations Center at 4330 Parmenter St.

**IV.f.8.** Describe in Appendix B the municipality's procedures for the collection of leaves, yard waste, and grass clippings, and/or instruction to citizens for on-site management of these items. Provide the location of sites used by the municipality or citizens for the disposal of leaves, yard waste, and grass clippings.

The City collects in bulk non-woody vegetation such as leaves and yard waste. Leaves are collected curb-side via a vacuum leaf collector during October and November. Each street is visited 4 to 6 times during this period. The City disposes of leaves and yard waste either at UW farms, at individual farmsteads or at the compost site, operated by Purple Cow, at the closed municipal landfill on CTH Q. Property owners must dispose of their own grass clippings, typically through home composting or by hauling to the compost site on CTH Q. Brush is collected curb-side once per month during April through October, and in November as crew time allows, then chipped and composted or spread on farmland.

See **Exhibit 3** for summary of brush and leaf collection quantities.

**IV.f.9.** Describe in Appendix B the municipality's policies and procedures for the use and application of lawn and garden fertilizers on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.

The City uses very little fertilizer – primarily on active ball diamonds at the High School and at Lakeview Park. None are applied in any of the kettle pond parks. The City uses only non-restricted herbicides including RoundUp, Garlon (treatment of phragmites, cattails or shrub stumps) and Poast to control invasive species. Herbicides are applied by hand or by use of a boom sprayer. Projects in which herbicides are applied include conservancy restoration including wetlands, prairie and oak savanna. The above chemicals are stored in ANSI compliant, fire-proof cabinets and are applied by trained staff in strict conformance with the manufacturer's recommendations. The City does not use pesticides.

In those cases where chemical applications are necessary, City hires the services of consultants with special training in such use and who follow DATCP rules and regulations and keep records of such activities. The only wetland treatments the City does are by hand using consultants with wetlands expertise.

**IV.f.10.** Describe in Appendix B any local program the municipality employs to regulate the private use of lawn and garden fertilizers.

None are in place at this time.

**IV.f.11.** Include in Appendix B an assessment of the effectiveness of the municipality's pollution prevention efforts through the municipal pollution prevention program.

The implementation of the municipal pollution prevention program is consistent with the described policies. The effectiveness is a measure of how much pollution is delivered to Lake Mendota versus how much would have been delivered absent the program. The City has not done scientific research on this particular measurement. However, the monitoring done by USGS in cooperation with the City at the USH 12 gaging station shows significant drops in total suspended solids in Pheasant Branch Creek following the construction of the Confluence Pond.

## OTHER TOPICS:

Waste oil is collected at the City garage (from municipal garage operations and from the community at large) and recycled. Maintenance on City vehicles, including mechanical repairs and washing, is done in an enclosed garage. (Exception: muddy vehicles are rinsed outside adjacent to a grassy area which drains to a vegetated swale.)

Other storage: Currently, a small wood chip pile, sand and soil are stored outside in concrete enclosures.

The City participates in the annual cost of continuous monitoring by USGS of Pheasant Branch, plus new gaging stations on the North and South Forks of Pheasant Branch with a total City expenditure in the current reporting biennium of \$72,918.

The City installed a permanent Med Drop site at the Police Station which provides a facility for members of the public to dispose of old medicines that otherwise might be flushed into the surface or ground water systems.

City has established at its new Municipal Operations Center a permanent recycling center which is open every Saturday. The center collects a wide variety of materials to be recycled or reused.

**Appendix C**  
**Storm Sewer System Map**  
**V.b. (City of Madison only)**

There were no edits this biennium to the sewershed boundaries shown on the City's map.

## Appendix D Water Quality Concerns

**VI.b.** Identify in Appendix D, for any part of the MS4 that discharges to an impaired water body listed in accordance with section 303(d)(1) of the federal Clean Water Act, 22 USC § 1313(d)(1)(C), the following:

- Impaired water body to which the MS4 discharges.  
    Lake Mendota  
    Pheasant Branch
- Description of actions municipality has taken to comply with section A(13) of the MS4 permit for discharges of pollutant(s) of concern to an impaired water body.

These actions are described at length elsewhere in this report. In addition, the City completed in 2009 the modeling of pre-2004 developed areas of the City to determine its level of compliance with the 40% TSS removal standard. The model shows the City achieves approximately 41% removal. The City's Consultant completed a revised model using WinSLAMM 10 in 2016, including accounting for closed basins in accordance with procedures approved by WDNR.

The City entered into an agreement with MMSD and other communities to cooperate in the funding of a pilot project to determine optimal ways to meet the pollutant control standards required by the Rock River TMDL. The four-year pilot project completed in 2016. The full-blown program will be implemented in 2017.

**VI.c.** In Appendix D, identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

See USGS report at: <http://pubs.usgs.gov/sir/2012/5014/>.

**VI.d.** In Appendix 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.

None known.

## **Appendix E**

### **Additional Information**

**VII.a.** Provide in Appendix E a description of any revisions or proposed revisions to any element of the municipality's storm water management program.

The City completed an update to its Storm Water Management Plan in 2016. The full report is available online at:

A summary of the proposed work was included in the approved grant application and in the WPDES report for the previous period.

With the Storm Water Utility now in place, City has an additional revenue source to ensure maintenance of large storm water controls. In 2017, the City will spend some of these revenues for the first time:

Design of Dredging of South Pond

Bank Stabilization of Pheasant Branch: Parmenter St to Park St

City contributed to the Adaptive Management Pilot Program in this biennium. In 2017, it will contribute its proportionate share to the fully implemented program.

**VII.b.** Provide in Appendix E an updated listing and contact information for any new industrial facilities that may be regulated under Subchapter II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period.

See **Exhibit 4** for a listing of permits issued for New Commercial Sites for this reporting period. The City does not have any information on the industrial codes assigned to the commercial sites.

**VII.c.** Provide in Appendix E a summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of.

N/A

# Exhibit #1

## 2016 Annual Spill Report - MIFD City of Middleton

The Fire Department responds to the majority of minor spills and all major spills since its crews are trained in handling hazardous waste. For routine minor spills, crews will place an oil dry product on the spilled fluids and allow it to stand for 24 hours. The City street crew will sweep the site using the power street sweeper. The sweepings are ultimately dumped at the municipal landfill.

The Fire Department reported 0 major spills in 2016 and a total of 14 minor spills as a result of vehicle accidents, leaking vehicles, or spills all of which were cleaned according to the above described procedure. A summary of the minor spills follow in the below table.

| Date      | Inc. # | Incident Type  | Action Taken    |
|-----------|--------|--|-----------------|
| 4/21/2016 | 16-179 | Motor vehicle accident (small fluid spill)               | Applied oil dry |
| 5/31/2016 | 16-248 | Motor vehicle accident (approx 2 - 3 gallons of fluid)   | Applied oil dry |
| 6/25/2016 | 16-290 | Motor vehicle accident (small fluid spill)               | Applied oil dry |
| 6/28/2016 | 16-296 | Motor vehicle accident (approx 2 gallons of anti-freeze) | Applied oil dry |
| 6/29/2016 | 16-297 | Motor vehicle accident (small fluid spill)               | Applied oil dry |
| 7/17/2016 | 16-327 | Motor vehicle accident (small amount of anti-freeze)     | Applied oil dry |
| 8/31/2016 | 16-436 | Fuel spill (small amount)                                | Applied oil dry |
| 9/8/2016  | 16-450 | Vehicle fluid spill (small amount)                       | Applied oil dry |
| 9/10/2016 | 16-454 | Motor vehicle accident (small fluid spill)               | Applied oil dry |
| 9/15/2016 | 16-463 | Hydraulic fuel spill (approx 15 gallons)                 | Applied oil dry |
| 9/19/2016 | 16-466 | Motor vehicle accident (approx. 1 gallon of anti-freeze) | Applied oil dry |
| 9/27/2016 | 16-481 | Fuel spill (approx. 2 - 3 cups)                          | Applied oil dry |
| 10/7/2016 | 16-498 | Motor vehicle accident (small radiator fluid spill)      | Applied oil dry |
| 11/5/2016 | 16-552 | Motor vehicle accident (small amt of fluid spill)        | Applied oil dry |

### 14 Minor Incidents



Provided by:  
**Mary Roessler, Office Manager**  
Submitted: 2/16/15  
827-1090

## 2015 Annual Spill Report - MIFD City of Middleton

The Fire Department responds to the majority of minor spills and all major spills since its crews are trained in handling hazardous waste. For routine minor spills, crews will place an oil dry product on the spilled fluids and allow it to stand for 24 hours. The City street crew will sweep the site using the power street sweeper. The sweepings are ultimately dumped at the municipal landfill.

The Fire Department reported 0 major spills in 2015 and a total of 13 minor spills as a result of vehicle accidents, leaking vehicles, or spills all of which were cleaned according to the above described procedure. A summary of the minor spills follow in the below table.

| Date       | Inc. # | Incident Type                                 | Action Taken             |
|------------|--------|---|--------------------------|
| 1/11/2015  | 15-029 | Motor vehicle gasoline spill                  | Applied oil dry          |
| 1/29/2015  | 15-052 | Motor vehicle accident (radiator fluid spill) | Applied oil dry          |
| 3/17/2015  | 15-110 | Motor vehicle accident (small amount of oil)  | Applied oil dry          |
| 5/8/2015   | 15-190 | Motor vehicle accident (Radiator fluid spill) | Applied oil dry          |
| 6/7/2015   | 15-231 | Motor vehicle gasoline leak (approx 2 cups)   | Applied oil dry          |
| 7/21/2015  | 15-290 | Oil leak from vehicle (approx 3 gallons)      | Applied oil dry          |
| 8/13/2015  | 15-322 | Motor vehicle accident (radiator fluid)       | Applied oil dry          |
| 8/26/2015  | 15-344 | Motor vehicle accident (small fluid spill)    | Applied oil dry          |
| 9/11/2015  | 15-366 | Motor Vehicle accident (small fluid spill)    | Applied oil dry          |
| 9/22/2015  | 15-385 | Motor vehicle accident (radiator fluid spill) | Applied oil dry (3 bags) |
| 10/14/2015 | 15-412 | Motor vehicle accident (fluid spill)          | Applied oil dry (4 bags) |
| 12/16/2015 | 15-515 | Motor vehicle accident (fluid spill)          | Applied oil dry          |
| 12/22/2015 | 15-522 | Motor Vehicle fluid spill (small amount)      | Applied oil dry          |

### 13 Minor Incidents



Provided by:

**Mary Roessler, Office Manager**

Submitted: 3/1/17

827-1090

## **EXHIBIT 2**

### **Inventory of Storm Water Management Practices City of Middleton**

#### **PONDS AND STREAMS**

1. Lake Mendota – Harbor
2. Lake Mendota – Lake St Boat Launch
3. Pheasant Branch
4. Pheasant Branch – North Fork
5. Pheasant Branch – South Fork
6. Confluence Pond
7. South Pond
8. Tiedeman Pond
9. Stricker Pond
10. Esser Pond
11. Graber Pond
12. Tiedeman Forebays
13. Stricker Park Pond
14. Stricker Pond Forebay [pending creation]
15. Esser Forebays
16. Business Park Pond (Montclair/Evergreen)
17. Greenview Pond
18. Schoepp Pond
19. Tribeca Pond (formerly Ballweg Pond)
20. Tribeca Kettle
21. Donna Dr Storm Water Control Pond
22. Lakeview Pond
23. Lakeview Fish Pond
24. Pheasant Branch Ridge East Pond (Long Pond)
25. Pheasant Branch Ridge West Pond (Round Pond)
26. Spring Hill Pond
27. Middleton Hills Concentric Pond
28. Middleton Hills NE Pond
29. Middleton Hills SE Pond
30. Shorecrest Pond
31. Parisi Pond (Park Street Kettle)
32. Highland Pond
33. Bishops Bay [NOTE: These may remain private]
34. Orchid Heights Pond N
35. Orchid Heights Pond S
36. Hidden Oaks East Pond
37. Hidden Oaks West Pond
38. Stonefield Wydown Pond

39. Stonefield Meadows Pond
40. Residence Inn Pond
41. Parmenter St BaySaver

## DITCHES

### NW

42. Business Park RR Ditch
43. Business Park Pinehurst Ditch
44. Business Park Greenview Ditch
45. Airport Rd Business Park Ditch
46. Forsythia W Ext Ditch
47. Hidden Oaks NW Drainage Way
48. Hidden Oaks Park Drainage Way
49. Patty Lane Ditch
50. High Rd Far North Ditch
51. Nursery Rd Ditch
52. Airport Rd E Ditch
53. Graber Pond Spillway
54. Parmenter Rd Far N Ditch
55. Belle Fontaine Drainage Way
56. Misty Valley Alley Drainage Way

### SW

57. Pleasant View Ditch
58. Blackhawk Rd Ditch
59. Quail Run Drainage Way
60. Pond View Drainage Way

### NE

61. Pheasant Branch Rd Ditch
62. Algonquin Ditch
63. Old Creek Rd Ditch
64. Bishops Bay Median Drainage Ways
65. Erdman Blvd Drainage Way
66. Pheasant Branch Tributary (Allen Ct)
67. Conservancy Parking Lot Spillway

### SE

68. Clovernook / Club Cir Ditch
69. Stonefield Meadows E Ditch
70. Lakeview Park Ditch
71. Middleton Beach Rd Ditch
72. Park St Debris Catch
73. Allen Blvd – Lakeview Sediment Trap

### EXHIBIT #3

| 2015 / 2016 SEDIMENT COLLECTION TOTALS |  |                    |                |               |                  |                              |
|--|--|--------------------|----------------|---------------|------------------|------------------------------|
| DEPT                                   | DESCRIPTION                                      | 2015 / 16<br>QUANT | UNITS          | 2015 QUANTITY | 2016<br>QUANTITY | NOTES                        |
| Streets                                | Salt Usage                                       | 2,171              | Tons           | 916           | 1,255            |                              |
| Streets                                | Sand Usage                                       | 0                  | Tons           | 0             | 0                |                              |
| Streets                                | Street Sweeping-leaves: quantity removed         | 2,067              | C.Y.           | 801           | 1,266            | C.Y. Based on 3 yds per load |
| Streets                                | Street Sweeping-sediment: quantity removed       | 1,113              | C.Y.           | 612           | 501              | C.Y. Based on 3 yds per load |
| Streets                                | Hours Sweeper Run                                | 1,193              | Hrs            | 528           | 665              |                              |
| Streets                                | Num Loads of Water for Sweeper                   | 268                | Water<br>Loads | 148           | 120              | 220 gal per load             |
| Streets                                | Lane Miles Driven                                | 3,476              | Lane Miles     | 1,628         | 1,848            |                              |
| Streets                                | Brush collection: quantity removed               | 6,270              | C.Y.           | 3,180         | 3,090            |                              |
| Streets                                | Leaf/Yard Waste collection: quantity removed     | 10,152             | C.Y.           | 5,580         | 4,572            | Based on 18 C.Y. per load    |
| Streets                                | Catch Basins: quantity of sediments removed      | 42                 | C.Y.           | 18            | 24               |                              |
| Streets                                | Sediment Hauled from Trash Racks on Park & Allen | 79                 | C.Y.           | 24            | 55               |                              |
| Streets                                | Illicit Discharges Found and Fixed               | 0                  |                |               |                  | 16,422                       |
| Streets                                | Salt Brine Useage                                | 84,600             | GAL            | 25,300        | 59,300           |                              |

## EXHIBIT 4

### New Commercial Sites for 2015-2016

| PermitNum | PermitType | ApplicationDate | ProjectAddress | ProjectStreet    | WorkScope        | ClassName  |
|-----------|------------|-----------------|----------------|------------------|------------------|------------|
| 023069    | Composite  | 10/02/2015      | 8300           | AIRPORT RD       | New Construction | Commercial |
| 023203    | Composite  | 10/29/2015      | 8511           | UNIVERSITY GRN   | New Construction | Commercial |
| 022282    | Composite  | 04/23/2015      | 1601           | DEMING WAY       | New Construction | Commercial |
| 022364    | Composite  | 05/08/2015      | 2315           | PINEHURST DR     | New Construction | Commercial |
| 022494    | Composite  | 06/05/2015      | 7800           | DISCOVERY DR     | New Construction | Commercial |
| 022495    | Composite  | 06/05/2015      | 7801           | DISCOVERY DR     | New Construction | Commercial |
| 022971    | Composite  | 09/04/2015      | 2105           | PARVIEW RD       | New Construction | Commercial |
| 024520    | Composite  | 09/16/2016      | 3620           | VENTURE AVE      | New Construction | Commercial |
| 023355    | Composite  | 12/14/2015      | 3000           | DEMING WAY       | New Construction | Commercial |
| 023443    | Composite  | 01/13/2016      | 5241           | BISHOPS BAY PKWY | New Construction | Commercial |
| 023453    | Composite  | 01/18/2016      | 8307           | MURPHY DR        | New Construction | Commercial |
| 023640    | Composite  | 03/17/2016      | 8264           | AIRPORT RD       | New Construction | Commercial |
| 023695    | Composite  | 03/29/2016      | 8391           | GREENWAY BLVD    | New Construction | Commercial |
| 023769    | Composite  | 04/13/2016      | 2620           | ALLEN BLVD       | New Construction | Commercial |
| 023890    | Composite  | 05/04/2016      | 2315           | PINEHURST DR     | New Construction | Commercial |
| 024166    | Composite  | 06/27/2016      | 3201           | PLEASANT VIEW RD | New Construction | Commercial |
| 024275    | Composite  | 09/30/2016      | 1818           | PARMENTER ST     | New Construction | Commercial |
| 024307    | Composite  | 07/26/2016      | 2315           | PINEHURST DR     | New Construction | Commercial |
| 024817    | Composite  | 11/02/2016      | 3185           | DEMING WAY       | New Construction | Commercial |
| 024848    | Composite  | 11/04/2016      | 3031           | PLEASANT VIEW RD | New Construction | Commercial |