



**City of Red Wing, Minnesota**

## **Storm Water Pollution Prevention Plan**

**Prepared by  
The City of Red Wing  
315 West 4<sup>th</sup> Street  
Red Wing, MN 55066**

**2021**

## Minimum Control Measure Best Management Practice (BMP) Itemization

The following table summarizes the BMPs chosen by the City of Red Wing along with associated references to the MPCA General MS4 Permit MNR040000 issuance date November 16, 2020.

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## **Background**

### **Description of the City of Red Wing**

The City of Red Wing (est. pop. 16,526 [2016]) is situated on the Mississippi River, surrounded by 300-foot high limestone bluffs. The City was first platted in 1853 and was consolidated with Burnside Township into its current configuration in 1971. All of the land in the City of Red Wing eventually drains to the Mississippi River.

### **Compliance Details**

On August 15, 2005, Red Wing was designated as a mandatory regulated Municipal Separate Storm Sewer System (MS4) for the National Pollution Discharge Elimination System (NPDES) Phase II program. Storm Water Pollution Prevention Program (SWPPP) requirements are laid out in Minn. Rule, part 7090.1010 and compliance is due by February 15, 2007.

The Public Works Director assigned the Infrastructure Asset Coordinator to manage the Storm Water Pollution Prevention Program in house. The Coordinator attended various workshops and subsequently received: “Design of Storm Water Pollution Prevention Plans” certification from the University of Minnesota. In 2018, the organizational structure changed with retirements, and the Environmental Services Manager was tasked to manage the Storm Water Pollution Prevention Program.

It should be noted that the City of Red Wing commissioned a progressive “Watershed Management Plan” from Barr Engineering Company in 1999 and its findings were incorporated into the City’s Zoning Code as: “Division 57: Storm Water Management Regulations.” These regulations serve as the foundation of the City’s efforts to promote, preserve, and enhance the natural resources within the City of Red Wing. On December 11, 2006, Red Wing City Council approved amendments to “Division 57: Storm Water Management Regulations” in order for it to comply with SWPPP guidelines.

In preparation for its SWPPP, City of Red Wing staff examined the League of Minnesota Cities’ NPDES Phase II MS4 Guide Plan and adopted many of the plan’s recommendations. The Self-Assessment step required the compilation and review of existing storm water information followed by meetings with various City Departments. City staff from Public Works, Engineering, Planning, Finance, GIS, Communications, and Building Inspection provided input and buy-in. These meetings were the foundation of the City’s SWPPP. This Storm Water Pollution Prevention Plan has been prepared in order to manage and minimize the discharge of storm water pollution to the maximum extent practicable (MEP). Using its Best Management Practices, the City of Red Wing will use education, maintenance, and engineering to meet the six minimum control measures that the NPDES Phase II permit requires:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge, Detection, and Elimination
4. Construction Site Runoff Control
5. Post Construction Runoff Control
6. Pollution Prevention and Good Housekeeping.

The prominence of the Mississippi River in Red Wing’s past and in its future, underscores the importance of this Storm Water Pollution Prevention Program.

This SWPPP was significantly updated in 2021 to comply with the reissued MS4 permit.

# BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: 1-PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.1 (Permit 16.3)

## BMP Title: Distribute Educational Materials

### Audience(s):

- The general public including, but not limited to: residents, students, businesses, commercial facilities, institutions, local organizations; consideration is given to low-income residents, people of color, and non-native English speaking residents.
- City staff that work with SWPPP projects including, but not limited to: engineering field staff, environmental services, utility workers, building inspectors, and park employees.
- Businesses that disturb soil including, but not limited to: contractors, developers, utility companies, home builders, and landscapers.

### BMP Description:

The City of Red Wing will inform its citizens about storm water pollution prevention by publishing articles and broadcasting informational videos. Using the monthly community newsletter, "The City Beat" and City social media accounts, the city will produce and distribute at least 2 informative articles about high priority stormwater issues and pollution prevention. Subjects like illicit discharges, runoff controls, and good housekeeping can illustrate what Best Management Practices (BMPs) are all about. Using its cable access Channel 6, the city will broadcast programming produced to explain storm water pollution issues. The community newsletter, social media, and the public access television station can reach and educate citizens about how to protect storm water from pollution and inform citizens about meetings and events. The City's Building Inspection Department will continue to distribute "Erosion Control Requirements" as a part of the building permit process. The approval of any SWPPP regulated project by the City Engineering Department will then mandate erosion control requirements.

Location(s) in SWPPP of detailed information relating to this BMP: 1.2 – 1.9

### Measurable Goals:

- At least two informational articles per year in "The City Beat" and social media
- At least 20 hours per year of storm water Public Service Announcements (PSAs) on Channel 6 (Broadcast of the Annual Meeting will be considered in the hourly total).
- Record circulation of "The City Beat"
- Track number of followers of social media pages
- Distribute erosion control requirements to building permit applicants and developers. Count the number of requirements distributed by the Engineering Department.
- Require incorporation of City's storm and erosion requirements in developer's agreements.

### Timeline/Implementation Schedule:

- Publish articles and air public service announcements for the duration of the permit.
- Count the number of Erosion Control Requirement Packets going out to building permit applicants and also going out with developer agreements.

### Specific Components and Notes:

A selection of videos will be broadcasted from and internal and external collection.

### Responsible Party for this BMP:

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works Department

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

# BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: 1-PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.2 (Permit 16.2, 16.7)

**BMP Title:** **Public Education Program**

**BMP Description:**

The City of Red Wing will implement a public education program about storm water. The program will inform citizens about the impact of storm water discharges on destination waterways and how the public can take steps to reduce pollution in storm water runoff. The City's public education program will individually address each of these

**Minimum Control Measures:**

1. Public Education and Outreach
2. Public Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping

The City will continue to use its municipal newsletter, "The City Beat", social media, and its website: [www.red-wing.org](http://www.red-wing.org) in order to provide relevant information about storm water pollution and storm water pollution mitigation. "The City Beat" and social media will also report on public storm water outreaches and meetings. The public access cable TV station, Channel 6, will air public service announcements (PSA's) about storm water pollution prevention. The City of Red Wing will institute an annual grade level public school classroom presentation about storm water pollution prevention.

Location(s) in SWPPP of detailed information relating to this BMP: 1.1 – 1.6

**Measurable Goals:**

- Implement a public education program
- Record the number of information items provided to the public
- Update web page in the City's website
- Broadcast PSA's

**Timeline/Implementation Schedule:**

Annually publish information about the SWPPP in utility bill inserts  
Dedicate web pages in the City website for storm water issues including BMPs.  
Update the web pages before each annual meeting.  
Utilize social media opportunities

**Specific Components and Notes:**

Educational materials will inform residents about the effects of polluted storm water on water quality in watershed streams and on the Mississippi River. The negative effects of dumping fertilizer, motor oil, chemical solvents, or hazardous materials into storm water structures, needs to be addressed. Recycling and collection information can be included in the newsletter and on the website.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager  
Department: Public Works  
Phone: (651) 385-5143  
E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

# BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.3 (Permit 16.7)

## BMP Title: Student Education Program

### Audience(s) Involved:

A representative of the City of Red Wing in conjunction with School District #256 will present storm water pollution prevention information students. This presentation is aimed at what students can do in order to help solve pollution problems. Messages about yard waste are appropriate and can be shared with their families.

### Educational Goals for Each Audience:

Students will be exposed to storm water issues like impervious surfaces and runoff to the Mississippi River. Sources of pollution will be discussed along with ways that students can help solve pollution problems. By instituting a specific grade level program, the City of Red Wing will engage our youngest citizens with the understanding of storm water issues and with the potential for cleaning up pollution.

### Activities Used to Reach Educational Goals:

Students will spend at least one period of classroom time learning about storm water pollution prevention. The presenter from the City will use mixed media and visual aids to get the information across. Important themes like keeping grass clippings off of the street will be addressed. Attendance will be taken to document all students who participate.

Past activities have included:

7<sup>th</sup> Grade Science Class

4<sup>th</sup> Grade Water Plant Tours

Conservation Club Student Day

### Activity Implementation Plan:

Opportunities for classroom instruction will be evaluated on a yearly basis.

Feedback from classroom teachers will be solicited in order to improve the presentation.

### Performance Measures:

City representatives will work closely with teachers in order to insure that the storm water information will be interesting and relevant for this grade level. Teachers have agreed to prep students about some storm water issues in order to make the presentation more meaningful.

### Responsible Party for this BMP:

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.4 (Permit 16.4)

**BMP Title:**      **Education Program: Illicit Discharge Detection and Elimination**

**Audience(s) Involved:**

The general public will be our primary focus. The increased awareness of the public might increase scrutiny on excavators, developers and contractors. These groups, along with city workers should also be included as a target audience.

**Educational Goals for Each Audience:**

Pollution prevention starts with an understanding about what can and cannot be dumped into a storm sewer. A basic understanding of a separated sewer system needs to be advanced to the general public. Laws and prohibitions need to be clearly explained. Available recycling and collection options need to be distributed.

**Activities Used to Reach Educational Goals:**

At least once per year, educational materials will be distributed focusing on illicit discharge recognition and reporting illicit discharges.

An article detailing how separated sewers work will be published in the community newsletter, "The City Beat". The exclusive use of storm sewers for storm water will be stressed. Recycling times and locations for motor oil disposal will be published along with Goodhue County's household hazardous waste drop-off schedule.

"The City Beat" will be utilized to publish articles alerting the community of visual cues of illicit discharge. The local newspaper will also be utilized whenever possible.

Targeted mailings will be sent to businesses identified as having a higher potential for illicit discharges.

Door hangers such as the one developed by the EPA (#833-F-03-002) will be posted in areas where illicit discharges have been detected.

**Activity Implementation Plan:**

Describe the City's sewer system for the average citizen in order to explain why storm sewers need protection from pollution.

Continue to emphasize sewer information and prohibitions in City media.

2018 – Distribute door hangers to city staff working in the field

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)



## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.5 (Permit 16.5)

**BMP Title:**      **Education Program: Deicers and Chloride Pollution**

**Audience(s) Involved:**

The general public, businesses, commercial facilities, and institutions are the target audiences.

**Educational Goals for Each Audience:**

The goal of this education program is to inform the audiences of the impacts of deicing salt on receiving waters, offer methods to reduce deicing salt use, and inform the audience of the proper storage of salt or other deicing materials.

**Activities Used to Reach Educational Goals:**

At least once per year, educational materials will be distributed focusing on deicers and chloride pollution.

“The City Beat” will be utilized to publish articles alerting the community of deicer pollution.

Targeted mailings will be sent to businesses, commercial facilities and institutions identified as having a higher potential for deicer pollution.

**Activity Implementation Plan:**

Annually publish education materials on deicers and chloride pollution.

Include the information in a seasonally appropriate utility bill insert.

2021 – Targeted mailings to businesses, commercial facilities and institutions.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.6 (Permit 16.6)

<b>BMP Title:</b>	<b>Education Program: Pet Waste</b>
<b>Audience(s) Involved:</b>	The general public will be our primary focus, including users of all public spaces, parks, and dog parks.
<b>Educational Goals for Each Audience:</b>	The goal of this BMP is to inform the public of the impacts of pet waste on receiving waters, inform on the proper management of pet waste on public and private property, and inform the public City ordinances regarding pet waste.
<b>Activities Used to Reach Educational Goals:</b>	At least once per year, educational materials will be distributed focusing on the effects of pet waste on water quality, the proper management of pet waste, and City ordinances regarding pet waste. “The City Beat” will be utilized to publish articles alerting the community of pet waste pollution issues. Pet Waste MuttMitt stations will be available in public parks. New locations for pet waste bags will be evaluated each year.
<b>Activity Implementation Plan:</b>	Annually distribute pet waste pollution educational materials
<b>Responsible Party for this BMP:</b>	Name: Kelsey Van Deusen, Environmental Services Manager Department: Public Works Phone: (651) 385-5143 E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.7 (Permit 16.2)

<b>BMP Title:</b>	<b>Education Program: Construction Site Runoff Control</b>
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<b>Audience(s) Involved:</b>
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- City staff that work with construction sites including, but not limited to: engineering field staff, utility workers, building inspectors, and parks employees.
- Businesses that disturb soil including, but not limited to: contractors, developers, utility companies, home builders, and landscapers.
- The general public including, but not limited to: residents and students.

Location(s) in SWPPP of detailed information relating to this BMP: 1.1
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<b>Educational Goals for Each Audience:</b>
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Contractors and developers along with City workers will be informed about stringent erosion control requirements. Information will be provided about the fact that Red Wing has a SWPPP and is required to meet its permit obligations including providing information and also following up on compliance.

<b>Activities Used to reach Educational Goals:</b>
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Contractors and developers are given educational packets before submitting development plans. Information included in Chapter 57 of the Zoning Code is referenced and specific information about Erosion Control requirements is provided with the building permit. City workers also undertake construction projects that require runoff controls.

<b>Activity Implementation Plan:</b>
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2007- Include SWPPP information with grading and building permits. (Applicable references from City Zoning Code, Chapter 57)  
2008- Continue to provide SWPPP information with permits but plan for review and upgrade of information as it becomes available.

<b>Performance Measures:</b>
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Count the number of grading and building permits requiring the "Erosion Control Requirements"  
Assess construction sites, including the City's, for compliance.

<b>Responsible Party for this BMP:</b>
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Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.8 (Permit 16.2)

**BMP Title:**      **Education Program: Post-Construction Storm Water Management in New Development and Redevelopment**

**Audience(s) Involved:**

The development community, contractors and City crews.

**Educational Goals for Each Audience:**

Explain the fact that the City of Red Wing is a federally regulated SWPPP city and consequently has obligations to comply with SWPPP language and intent.

**Activities Used to Reach Educational Goals:**

Inform contractors and developers at time of application for building and grading permits that SWPPP provisions are in effect. (Most developers already include SWPPP language and provisions in their proposals.)

**Activity Implementation Plan:**

2006 – Inform developers and contractors through normal permit channels that Zoning Code, Chapter 57 has been amended to comply with SWPPP requirements and that changes will be in effect after December 11, 2006.  
2007- The City of Red Wing will continue to be SWPPP compliant and will continue to monitor that compliance.

**Performance Measures:**

Count the number of building and grading permits that equal or exceed one acre of land disturbance. Make sure SWPPP plans are reviewed and approved.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.9 (Permit 16.2)

**BMP Title:**      **Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations**

**Audience(s) Involved:**

City Public Works staff, Red Wing Fire, and Red Wing Police will be the primary targets of this information.

**Educational Goals for Each Audience:**

City Public Works employees need to know what equipment and activities pose a threat to storm water. The City operates the biggest fleet of vehicles, cuts the most grass and digs the deepest ditches. By attending training about BMPs, city workers will have a better understanding that good housekeeping practices are a group effort. Leaky equipment problems in the field, for example, need to be reported and repairs need to be made as soon as possible.

**Activities Used to Reach Educational Goals:**

A mandatory training session about storm water pollution prevention will make all city workers aware of SWPPP requirements.

**Activity Implementation Plan:**

2007- Mandatory training video will be shown.

2008- An annual SWPPP information and training session will be held for all field employees.

**Performance Measures:**

Seek feedback from workers about storm water presentations. Discuss close calls or good housekeeping procedures already being practiced. Pick one aspect of good housekeeping and focus on correct procedures and reporting protocols.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.10 (Permit 16.2)

<b>BMP Title:</b>	<b>Coordination of Education Program</b>
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<b>BMP Description:</b>
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A City of Red Wing representative will meet with a Goodhue County Soil and Water Conservation District (GCSWCD) staff member in order to discuss the County's Comprehensive Local Water Management Plan. The Red Wing Public Works Director currently serves on the GCSWCD Water Planning Board Policy Committee. This association will continue to emphasize erosion control and storm water management inside of the city limits. Meetings will focus on educational opportunities and also on regional organizations and studies.

The City of Red Wing will partner with the Cannon River Watershed Partnership whenever feasible to conduct storm water outreach and education.

<b>Measurable Goals:</b>
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- Maintain an environmental BMP partnership with Goodhue County Soil and Water Conservation District based on storm water issues.
- Actively participate in local storm water organizations and committees.
- Take advantage of Goodhue County geological and hydrological maps to protect ground water as well as surface water resources.

<b>Timeline/Implementation Schedule:</b>
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- 2006- Meet annually with Goodhue County Soil and Water Conservation District to discuss salient points of Goodhue County's Water Management Plan and how it meshes with Red Wing's SWPPP.

<b>Specific Components and Notes:</b>
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Goodhue County shares water quality objectives achievable by BMPs addressing urban storm water management. The County's stated goals include:

- Leadership and staff time to implement sound storm water management practices.
- Establishing and maintaining stream and field vegetative buffers.
- Encouraging long-term maintenance on detention basins.
- Providing information.
- Preserving and enhancing wetlands.

Goodhue County Soil and Water Conservation Districts website: [www.goodhueswcd.org](http://www.goodhueswcd.org) offers geologic and scientific background on water quality issues.

<b>Responsible Party for this BMP:</b>
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Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 382-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1.11 (Permit 16.8, 16.9)

**BMP Title:** **Annual Assessment**

**BMP Description:**

The City of Red Wing will conduct an annual assessment of the public education program to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.

Location(s) in SWPPP of detailed information relating to this BMP: 1.1-1.10

**Measurable Goals:**

- Record measureable requirements from each BMP
- Record all public education and outreach activities.
- Publish an annual summary of activities on the City website

**Timeline/Implementation Schedule:**

- Conduct the annual assessment in February – March of the following year.

**Specific Components and Notes:**

- Evaluate each BMP to determine how the program can be improved and make changes with input from staff, leaders, and the public.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

# BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC PARTICIPATION AND INVOLVEMENT

Unique BMP Identification Number: 2.1 (Permit 17.4)

<b>BMP Title:</b> <b>Comply with Public Notice Requirements</b>
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<b>BMP Description:</b>
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<p>The City of Red Wing will comply with public notice requirements for the annual meeting to discuss the City's Storm Water Pollution Prevention Program. The meeting will be included as part of a regularly scheduled City Council Meeting to be held at Council Chambers in the Red Wing City Hall. The City will utilize the newspaper designated for legal notices and will contact other local newspapers with the requisite SWPPP Meeting information. The City will advertise the Annual Meeting in the City's newsletter: "The City Beat" and on the City's website: <a href="http://www.red-wing.org">www.red-wing.org</a>. The City will also post the public notice on the City Bulletin Board at City Hall. These notices will specifically mention the Storm Water Pollution Prevention Program and give the time, the date, the location and the description of how the meeting will be conducted. The permit will be available for viewing on the City's website or at the Red Wing Public Library either on line or as a paper copy. Paper copies may also be obtained for viewing at the City Clerk's office at City Hall.</p>
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<b>Measurable Goals:</b>
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| <ul style="list-style-type: none"><li>• Completed public notice with documentation.</li><li>• Provide access to SWPPP documents, annual reports, and other documentation upon request.</li></ul> |
|--|

<b>Timeline/Implementation Schedule:</b>
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- |  |
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| <ul style="list-style-type: none"><li>• Public Notice will be issued 30 days prior to meeting.</li><li>• Meeting must be held before annual report submission on June 30.</li><li>• Meeting will be held every year.</li></ul> |
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<b>Specific Components and Notes:</b>
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- |  |
|--|
| <ul style="list-style-type: none"><li>• Date</li><li>• Time</li><li>• Location</li><li>• Description of how meeting will be conducted</li><li>• Location of SWPPP document for review prior to the meeting</li><li>• Location of posted notice</li></ul> |
|--|

<b>Responsible Party for this BMP:</b>
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Name: Kelsey Van Deusen, Environmental Services Manager
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Department: Public Works
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Phone: (651) 385-5143
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E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>
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## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 2.2 (Permit 17.3)

**BMP Title:** **Annual Public Meeting**

**BMP Description:**

The City of Red Wing will conduct an annual public information meeting to discuss the City's Storm Water Pollution Prevention Program. The City will take public input concerning the information being provided and the best management practices (BMPs) being utilized.

Location(s) in SWPPP of detailed information relating to this BMP: 2.1

**Measurable Goals:**

- Conduct the first annual public information meeting before the due date of the annual report in order to allow for citizen input to be included in the annual report.
- Record the number of attendees at the annual meeting.
- Keep minutes of the meeting including citizen concerns and suggestions.

**Timeline/Implementation Schedule:**

- The first annual public information meeting will be scheduled before June 30, 2008 and will be continued on an annual basis.

**Specific Components and Notes:**

- Establish meeting procedures for speakers and written material.
- Public Meeting Notice will be published 30 days prior to the meeting.
- Allow interested persons an opportunity to comment on information provided and best management practices being utilized.
- Time will be allocated for individual presentations and for spokespersons for groups.
- Minutes will be taken at the Annual Public Information Meeting and will be available for public review.
- Public oral and written input will be accepted. The meeting will be video recorded and submissions will be archived along with the minutes of the meeting. Suggestions about improving the SWPPP will be considered and relevant adjustments can be made as the City of Red Wing deems appropriate.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 2.3 (Permit 17.2, 17.6)

**BMP Title:** **Public Involvement Activity**

**BMP Description:**

The City of Red Wing will provide a minimum of one public involvement activity each year that includes a pollution prevention or water quality theme. Examples of the activity are: rain barrel event, rain garden workshop, cleanup event, storm drain stenciling, volunteer water quality monitoring, adopt a storm drain program, or household hazardous waste collection day.

Location(s) in SWPPP of detailed information relating to this BMP: 2A-1, 2B-1

**Measurable Goals:**

- Conduct the public involvement activity and record the details of the event including: a description of the activity, participation and any other relevant information.

**Timeline/Implementation Schedule:**

- Annually hold a public involvement activity

**Specific Components and Notes:**

- Collaborate with local groups for participation
- Solicite feedback on the types of programs citizens would like

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** PUBLIC PARTICIPATION AND INVOLVEMENT

**Unique BMP Identification Number:** 2.4 (Permit 17.2, 17.7)

**BMP Title:**

### **Solicit Public Input and Opinion on the Adequacy of the SWPPP**

**BMP Description:**

The Completed SWPPP will be presented to City Council in session prior to submission to the Minnesota Pollution Control Agency (MPCA). The Council will be informed that the City's SWPPP has been posted on the City's website and is available for public viewing and comment. Interested citizens and groups will be encouraged to read the document and to make recommendations about preventing pollution in city storm water. An introduction to the City's Storm Water Site will encourage citizens to get involved by making suggestions. Contact information will be clearly noted on the website.

The first annual meeting prescribed by the permit will include a presentation about the development and the deployment of the SWPPP. This informational meeting will encourage citizens to learn about storm water issues and then input their ideas and comments in order to strengthen our pollution control efforts. Citizens will be asked to attend the annual meeting and make oral statements or to write (including e-mail) submissions for consideration.

Location(s) in SWPPP of detailed information relating to this BMP: 1.1 – 2.3

**Measurable Goals:**

- Document the number citizen contacts about storm water issues by keeping a correspondence file including e-mails.
- Count the number of persons attending the annual meeting.

**Timeline/Implementation Schedule:**

- 2007- The storm water page on the City's website will provide contact information.
- Maintain storm water pages on the City's web site.

**Specific Components and Notes:**

Citizens and organizations interested in storm water pollution prevention need to have access to SWPPP information and decision makers so that their input can be addressed.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC PARTICIPATION AND INVOLVEMENT

Unique BMP Identification Number: 2.5 (Permit 17.5)

**BMP Title:** **Consider Public Input**

**BMP Description:**

Input by concerned persons and groups will be reviewed by appropriate city staff in order to determine if the suggestions are relevant to the goals of the SWPPP and, if so, how they could be implemented. All input will be reviewed and written responses will be sent, as appropriate. The SWPPP will be revised, as necessary, from input received.

Location(s) in SWPPP of detailed information relating to this BMP: 2.2, 2.4

**Measurable Goals:**

- List input ideas from concerned persons.
- Respond in writing.
- List responses to input ideas.
- Document changes in SWPPP caused by citizen input.

**Timeline/Implementation Schedule:**

- Study public responses and comments to SWPPP posted on website.
- Maintain an open door policy concerning SWPPP issues. Get input.
- Determine the public's response by attendance at the annual meeting. Respond to individuals with suggestions.
- Provide written response to input within 90 days.
- Amend SWPPP, as appropriate, in accordance with public suggestions within six months.

**Specific Components and Notes:**

City staff will be open-minded to storm water management ideas from the public but also must balance administrative concerns and budget restrictions in order to achieve BMP goals.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: PUBLIC PARTICIPATION AND INVOLVEMENT

Unique BMP Identification Number: 2.6 (Permit 17.8)

**BMP Title:** **Annual Assessment**

**BMP Description:**

The City of Red Wing will conduct an annual assessment of the public participation and involvement to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.

Location(s) in SWPPP of detailed information relating to this BMP: 2.1-2.5

**Measurable Goals:**

- Record measureable requirements from each BMP
- Record all public participation and involvement activities.
- Publish an annual summary of activities on the City website

**Timeline/Implementation Schedule:**

- Conduct the annual assessment in February – March of the following year.

**Specific Components and Notes:**

- Evaluate each BMP to determine how the program can be improved and make changes with input from staff, leaders, and the public.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** ILLICIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3.1 (Permit 14.1, 18.3)

<b>BMP Title:</b> <b>Storm Sewer System Map</b>
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<b>BMP Description:</b>
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The City of Red Wing will create a systematic storm sewer map including ponds, streams, lakes, and wetlands throughout the city limits. Structural pollution control devices will also be mapped. Outfalls greater than 24 inches in diameter will be displayed. Catch basins along with all pipes and conveyances will be systematically mapped. The City will maintain hydrologic maps for referencing watershed information. The storm sewer maps will be updated annually to record changes in the storm water drainage system.
---

<b>Measurable Goals:</b>
--------------------------

- |   |
|---|
| <ul style="list-style-type: none"><li>• Update storm sewer maps each year in order to include any changes in the system.</li><li>• Map concrete swales on hillsides for inspection and maintenance follow up.</li><li>• Provide maps for civic groups or informational meetings requiring maps except where such information could conflict with Homeland Security Regulations.</li></ul> |
|---|

<b>Timeline/Implementation Schedule:</b>
--

- |   |
|---|
| <ul style="list-style-type: none"><li>• 2007 – Complete updating map information for all 24 inch and larger conveyances.</li><li>• 2008-2009– Complete a systematic storm sewer map.</li><li>• 2009 – Complete mapping hillside storm water swales for inclusion in storm water maps.</li><li>• Maintain mapping data by updating map information from new construction and reconstruction.</li></ul> |
|---|

<b>Specific Components and Notes:</b>
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The City of Red Wing is in the process of implementing a Geographic Information System (GIS) which includes an Asset Management Program (AMP). This comprehensive infrastructure asset management program has staff in place to coordinate, maintain, and update the City's storm water information.
--

City staff will be available for civic information and demonstration.
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<b>Responsible Party for this BMP:</b>
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Name: Tucker Gadiant, Infrastructure Asset Specialist
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Department: Public Works
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Phone: (651) 385-3689
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E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>
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## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** ILLICIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3.2 (Permit 18.4-18.5)

**BMP Title:** **Regulatory Control Program**

**BMP Description:**

The City of Red Wing will update its ordinance to prohibit non-storm water discharges into the storm sewer system. This ordinance will incorporate existing ordinances for septic systems and illegal dumping. The City will review in place ordinances, review ordinances of adjacent communities, and will work with the City Clerk and the City Attorney in order to prepare this ordinance for City Council approval before the NPDES Phase II required implementation date 2010.

**Measurable Goals:**

- Review in place ordinances.
- Review relevant ordinances of adjacent communities.
- Work with the City Clerk, the City Engineering Department, the City Planning Department, and the City Attorney to prepare this ordinance.
- City Council review and approval of ordinance.

**Timeline/Implementation Schedule:**

- 2006 – Review in place ordinances.
- 2007-2008– Work with the City Attorney and the City Clerk to prepare a newly worded ordinance.
- 2009 – City Council approval of ordinance.
- 2009-2011 – Implement and enforce the new ordinance.

**Specific Components and Notes:**

Zoning code 57: Storm Water Management Regulations, was specifically designed and amended for compliance with this SWPPP.

The City of Red Wing also has a comprehensive ordinance in place concerning illegal dumping into city sewers. While the language and prohibitions serve the storm sewer system, they are more specific to the sanitary sewer system which has recently been separated. The importance of the Storm Water Pollution Prevention Program to the City of Red Wing requires a separate and more specific codification of prohibited discharges into the untreated storm water sewer system. The new ordinance language will be a supplement to the City Code: Chapter 3, Municipal Utilities.

Existing Ordinance: Red Wing City Code Chapter 3: Sec. 3.31 Controls on Use of Public Sewers and Pretreatment of Industrial Wastewater.

Existing Ordinance: Red Wing City Code Chapter 7: Sec. 7.07 Subd. 3 Obstruction in Streets (Anti-Litter Ordinance)

Existing Ordinance: Red Wing City Code Chapter 10: Sec. 10.13 Subd. 2 Public Protection, Crimes and Offenses (Dog and Cat Waste)

Existing Ordinance: Red Wing City Code Chapter 10: Sec. 10.23 Subd. 3A Public Protection, Crimes and Offenses (Public Parks) (Pollution of Waters)

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Unique BMP Identification Number: 3.3 (Permit 18.6)

**BMP Title:** **Regulatory Control Program: Salt Storage**

**BMP Description:**

The City of Red Wing will update its ordinance to require proper salt storage at commercial, institutional, and non-NPDES permitted facility. The City will review in place ordinances, review ordinances of adjacent communities, and will work with the City Clerk and the City Attorney in order to prepare this ordinance for City Council approval. The ordinance will require designated salt storage areas must be covered or indoors, located on an impervious surface, and operators of salt storage areas must implement practices to reduce exposure when transferring material in designated salt storage areas.

**Measurable Goals:**

- Work with the City Clerk, the City Engineering Department, the City Planning Department, and the City Attorney to prepare this ordinance.
- City Council review and approval of ordinance.
- Follow up on complaints of salt storage and handling

**Timeline/Implementation Schedule:**

- 2021 – Review in place ordinances.
- 2021– Work with the City Attorney and the City Clerk to prepare a newly worded ordinance.
- 2021 – City Council approval of ordinance.
- 2022 – Implement and enforce the new ordinance.

**Specific Components and Notes:**

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)



## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Unique BMP Identification Number: 3.4 (Permit Section 18.4)

<b>BMP Title:</b>	<b>Regulatory Control Program: Septic System Controls</b>
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<b>BMP Description:</b>
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Red Wing City Code, Chapter 3.31, Subdivision 3.D mandates attachment to sanitary sewer lines when the lot or parcel is within 500 feet of an existing sanitary sewer line. Because of this, over 98% of City residents are hooked up to sanitary sewers. The remaining residents will continue to rely on Goodhue County for septic system inspection and compliance. Goodhue County employs an environmental health technician who is tasked with administering Minnesota Pollution Control Agency (MPCA) Rule Chapter 7080, which includes standards for septic system operation. The goal of Goodhue County is to prevent the overflow of septic systems. In the event of an overflow, the County's Citation Ordinance requires discharge cessation through programmed pumping with a 10 month window to repair or replace the faulty septic system. Preventing and/or correcting improper operation of septic systems can protect water resources. Red Wing zoning ordinance Chapter 11 Division 90-100 defers septic responsibility to the Goodhue County Ordinance. The City of Red Wing allows septage haulers to dispose of tank pumpings from within city limits only into the City's sanitary sewage system at specific locations by permit.

<b>Measurable Goals:</b>
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- Inspect septic systems at time of new installation or repair and replacement.
- Follow up on complaints of system overflows.
- Maintain reporting of septage haulers.

<b>Timeline/Implementation Schedule:</b>
--

Report the number of septic system inspections inside of the city limits for each annual report.

<b>Specific Components and Notes:</b>
---------------------------------------

Existing Ordinance: Overflowing septic systems present a health hazard addressed by Goodhue County's Health Department under Goodhue County Zoning Ordinance, Section 8: Wastewater Treatment. The City of Red Wing does not have a Health Officer so it defers administration of septic systems to the County Health Department. On the grounds of public health, the City of Red Wing mandates connection to its sanitary sewer system if a cesspool, privy, or privy vault is within 500 feet of an existing sewer and water main. (City Code: Chapter 3.31, Subdivision 3.D)

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Unique BMP Identification Number: 3.5 (Permit 18.2, 18.8-18.15, 18.17 )

### BMP Title: **Illicit Discharge Detection and Elimination Plan**

#### BMP Description:

The City of Red Wing will develop and implement a program to detect and address non-storm water discharges, specifically failing septic systems and illegal dumping. Drain field overflows pollute surface waters during run off and pose a threat to public health. The City of Red Wing will report any reported or observed septic system overflows to the Goodhue County Health Department. The City of Red Wing will instruct city workers about illicit discharge detection and elimination. Front line workers in the streets department, the parks department, utilities department, police and fire departments will be informed about their obligations to recognize and report evidence of suspicious dumping or discharge. Workers on routine storm sewer inspections will be alerted to telltale signs of illicit discharge. Private septage haulers will continue to use designated sanitary sewer connections for permitted dumping. In the case of an accidental discharge from a railroad car or a tanker truck, the county 911 dispatcher will dispatch the fire department and a police officer as first responders. The fire department captain will make a site assessment and then decide whether to call the state duty officer in order to involve a hazmat team. Firefighters have been trained to protect storm sewers and will mitigate inflow to the best of their ability. Public Works can provide outfall information in case any spill threatens the river. Red Wing has a trained hazmat responders through Community Awareness and Emergency Response. Hazmat trailers are always available to the fire department at a number of locations in Red Wing. The City also maintains oil absorbent booms and catch basin protectors at the Levee Park Lift Station. ADM and Xcel Energy (Red Wing Steam Plant) also have spill mitigation booms that may be dispatched onto the Mississippi River in an emergency.

The City will maintain an inventory of priority areas having a higher likelihood for illicit discharge.

Written procedures for investigating, locating, and eliminating the source of illicit discharge will include: timeframe in which a reported discharge will be investigated, the visual inspection details, tools available to deter and track the discharge, cleanup methods available, and responsible persons for investigating, locating, and eliminating the illicit discharge.

The City will also maintain written enforcement response procedures to compel compliance.

#### Measurable Goals:

- Count the number of non-storm water discharges detected and addressed. Illegal overflows will be reported to the Goodhue County Health department for correction under their jurisdiction.
- Septage haulers will continue reporting under permit.

#### Timeline/Implementation Schedule:

Report results of non-storm water discharge detections in each annual report.

#### Specific Components and Notes:

Non-storm water discharges could include: oil dumped into the storm sewer system, gasoline or petroleum distillates, chemical spills, or chemical leaks. The Engineering Department will work closely with Building Inspections, Public Works, and Code Enforcement on calls received from the public or for any issues noted in the storm sewer system inspections. County will be notified of any spills.

#### Responsible Party for this BMP:

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Unique BMP Identification Number: 3.6 (Permit 18.8, 18.9, 18.16)

<b>BMP Title:</b> <b>Public and Employee Illicit Discharge Information Program</b>
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<b>BMP Description:</b>
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The City of Red Wing will develop a strategy to inform City employees, local businesses, property owners, and the public about the hazards associated with illegal discharges and improper disposal of waste. The City will provide educational materials to eliminate misconceptions, change behaviors, and create awareness of problems. Our educational program will inform these groups about ways to detect and eliminate illicit discharges.

Location(s) in SWPPP of detailed information relating to this BMP: 1.1

<b>Measurable Goals:</b>
--------------------------

- Identify outreach materials.
- Provide education information to employees, businesses, property owners, and the public.
- Record subjects covered, audiences, and dates

<b>Timeline/Implementation Schedule:</b>
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- 2007 – Identify outreach material.
- 2008 – Determine format and timing of distribution.
- Annually distribute information
- Report educational information that is disseminated each year with each annual report.

<b>Specific Components and Notes:</b>
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The City's newsletter, "The City Beat" will continue to report on environmental awareness in order to focus community attention on storm water issues.

Goodhue County staffs a recycling center at 3745 Highway 61 N. in Red Wing which includes a 24/7 used oil collection facility. The county also provides residents with information about household hazardous waste disposal and has a hazardous waste collection at their recycling center in Red Wing at least three days per year. Including this information in City media will help the public dispose of illicit discharge material before it becomes a storm water problem.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Unique BMP Identification Number: 3.7 (Permit 3.2, 18.4)

**BMP Title:** **Review of Non-Storm Water Discharges and Flows**

**BMP Description:**

Each year, the City of Red Wing will review its operations and activities to determine if spills or discharges are significantly contributing to storm water pollution. Items to be addressed include: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, de-chlorinated swimming pool discharges, and street wash water, discharges or flows from fire fighting activities. Currently, these discharges have not been a problem. If a significant problem is discovered or reported, then the City will review those reports and may decide to implement BMPs to address them.

**Measurable Goals:**

- Develop a review process based on observation of detrimental discharges.

**Timeline/Implementation Schedule:**

- Annually review significant events that caused spillage or discharge. Remedial action may require a BMP.

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Unique BMP Identification Number: 3.8 (Permit 18.18)

<b>BMP Title:</b>	<b>Annual Assessment</b>
<b>BMP Description:</b> The City of Red Wing will conduct an annual assessment of the illicit discharge detection and elimination program to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.  Location(s) in SWPPP of detailed information relating to this BMP: 3.1-3.7	
<b>Measurable Goals:</b> <ul style="list-style-type: none"><li>• Record measureable requirements from each BMP</li><li>• Record all illicit discharges detected, enforcement and outcomes</li><li>• Publish an annual summary of activities on the City website</li></ul>	
<b>Timeline/Implementation Schedule:</b> <ul style="list-style-type: none"><li>• Conduct the annual assessment in February – March of the follow year.</li></ul>	
<b>Specific Components and Notes:</b> <ul style="list-style-type: none"><li>• Evaluate each BMP to determine how the program can be improved and make changes with input for staff, leaders, and the public.</li></ul>	
<b>Responsible Party for this BMP:</b> Name: Kelsey Van Deusen, Environmental Services Manager Department: Public Works Phone: (651) 385-5143 E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>	

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.1 (Permit 19.2-19.5)

**BMP Title:** **Construction Runoff Ordinance**

**BMP Description:**

The City of Red Wing has worked with the City Planner in order to prepare zoning ordinance revisions as needed for City Council approval before the NPDES Phase II required implementation date of February 15, 2007. The City has been proactive in updating its Storm Water Management Regulations which are codified as Division 57 of the City's Zoning Ordinance. This ordinance was amended to include SWPPP mandated land disturbance area sizes that pertain to construction site storm water management. The City of Red Wing will continue to review site plans for both new development and re-development and incorporate best management practices through zoning ordinance requirements, wetland protection requirements, and the City's Tree Preservation Policy, and update to comply with the most current MPCA Construction Stormwater General Permit.

**Measurable Goals:**

- Review current ordinances.
- Meet with City Planner to prepare ordinance revisions as needed.
- City Council review and approval of ordinance.

**Timeline/Implementation Schedule:**

- 2006 – Review in place ordinances.
- 2006 – Amend Zoning Ordinance Number 57 for SWPPP Compliance.
- December 11, 2006 – Red Wing City Council approves “Motion to Adopt Ordinance No. 411” This ordinance amends text in Zoning Ordinance Number 57 to comply with SWPPP intent and language.
- Implement Division 57 as a means of SWPPP compliance.

**Specific Components and Notes:**

Division 57: “Storm Water Management Regulations” of the Red Wing City Zoning Code is a comprehensive 21 page legal document outlining the responsibilities of every contractor or developer actively engaged in disturbing a land area of one acre or more inside of the city limits. This zoning ordinance requires up to three permits/reviews for any project /construction activity and outlines specific procedures known as best management practices or BMPs to be followed when land is being disturbed.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.2 (Permit 19.5)

<b>BMP Title:</b>	<b>Construction Site Implementation of Erosion and Sediment Control BMPs</b>
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<b>BMP Description:</b>
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The City of Red Wing will continue to enforce its Zoning Ordinance, Division 57: Storm Water Management Regulations. This ordinance utilizes the best management practices listed in Mn /DOT Construction Site and Sediment Control Handbook. This reference manual is utilized to make recommendations to developers and contractors during site plan review in order to incorporate best management practices into each construction project.

<b>Measurable Goals:</b>
--------------------------

- Check for incorporation of best management practices with each site plan review. A letter about site plan revisions will be sent to the developer or engineer for revisions required prior to site plan approval.

<b>Timeline/Implementation Schedule:</b>
--

2008-2011 Report number of site plan reviews with each annual report.

<b>Specific Components and Notes:</b>
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- Require installation of silt fence prior to start grading and monitor through construction and turf establishment.
- Require rock construction entrance prior to start of construction and monitor effectiveness.
- Sod back of curb when utility and street installation is complete.
- Require drain inlet protection in order to hold back sediment and floatables.
- Put black dirt over disturbed areas then seed and mulch.
- Have developers keep road swept during construction activities.
- Water pumped from the site shall be treated to control sediment. Water may not be discharged in a manner that causes erosion or flooding.

Emphasize importance of implementing and monitoring erosion and sediment control BMP'S to developers, engineers, site operators, and site inspectors.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.3 (Permit 19.3)

<b>BMP Title:</b>	<b>Construction Site Waste Controls</b>
<b>BMP Description:</b>	<p>The City of Red Wing will continue to inspect construction sites for site waste and debris control. Zoning Code Division 57-080 clearly requires retention and proper disposal of all waste and unused building materials. The City will continue to issue warnings on construction sites if non-compliance issues exist and will continue to enforce existing ordinances.</p>
<b>Measurable Goals:</b>	<ul style="list-style-type: none"><li>• Inspection of construction sites for waste and debris control.</li></ul>
<b>Timeline/Implementation Schedule:</b>	<p>Report status with each annual report.</p>
<b>Specific Components and Notes:</b>	<p>The Zoning Code which is enforced by the Building Inspection Department requires waste control measures on each construction site.</p> <p>Emphasize importance of implementing and monitoring construction site BMP'S to developers, engineers, site operators, and site inspectors.</p>
<b>Responsible Party for this BMP:</b>	<p>Name: Kelsey Van Deusen, Environmental Services Manager</p> <p>Department: Public Works</p> <p>Phone: (651) 385-5143</p> <p>E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a></p>



## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROLS

Unique BMP Identification Number: 4.4 (Permit 19.6, 19.13)

**BMP Title:** Procedure for Site Plan Review

**BMP Description:**

The City of Red Wing will utilize Zoning Code Division 57-060-070 to regulate storm water management plan submittal and plan review procedures. The Zoning Administrator in conjunction with the Planning Department will conduct site plan reviews with oversight from the Planning Commission and the City Council. The Zoning Administrator will forward all appropriate plans to the Engineering Department. The City Engineering Department will examine all grading permits and determine their compliance with existing ordinances and SWPPP requirements. City Zoning Ordinance Division 57-070 is entitled: Plan Review Procedure. It details specific procedures for site plan reviews. Those reviews may also include meetings to include input from Planning, Engineering, and Public Works.

**Measurable Goals:**

- Continue to utilize the City's mandated: Storm water Management Plan – Submittal Requirements (Division 57-060)
- Continue to utilize the City's mandated: Plan Review Procedure (Division 57-070)
- Continue to work with Watershed Districts and other regulatory agencies during the site plan review process and require approvals/ permits prior to start of site work.

**Timeline/Implementation Schedule:**

- Report number of site plans reviewed by the City Departments with each annual report.

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.5 (Permit 19.10)

<b>BMP Title:</b> <b>Public Complaints and Reports of Noncompliance</b>
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<b>BMP Description:</b>
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The City of Red Wing's Building Inspection Department and Environmental Services Department will continue to investigate complaints received about construction site runoff. Complaints and reports are received at Community Development, Environmental Services and at Public Works. Reports of noncompliance from city workers or the public will be forwarded to the Environmental Services Department and will be logged. Building Inspection staff and Environmental Services staff will respond to complaints about construction site runoff as soon as possible. The building inspector has statutory authority to regulate building sites under Minnesota Statutes, Section 609.74, 561.19 and 144.37.

<b>Measurable Goals:</b>
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- Record the number of complaints received by the Building Inspection Department about storm water issues. (Inspection tickets issued.)
- Generate annual complaint tracking reports and incorporate that data into the Annual Report.
- Report follow up actions to the responsible party for this BMP.

<b>Timeline/Implementation Schedule:</b>
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- 2008 – Report number of issues and complaints received on construction sites with each annual report.
- 2009-2011 Continue to report complaints and explain resolutions.
- 2018 – Follow the procedures of the MPCA General Permit for Construction Storm Water Activity

<b>Specific Components and Notes:</b>
---------------------------------------

MPCA'S Guidance Manual states that cities are not expected to follow-up and respond to every complaint or concern. A simple tracking process in which submitted information, both written and verbal, is recorded and then given to the construction site inspector for possible follow-up is sufficient.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.6 (Permit Section 19.7-19.9, 19.11-19.12, 19.14-19.15)

<b>BMP Title:</b>	<b>Procedures for Site Inspections and Enforcement</b>
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<b>BMP Description:</b>
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The City of Red Wing Building Inspection Department and Environmental Services Department will continue to perform site inspections following written procedures, log in-process inspections, and detail enforcement activity about inspections, including the use of “Stop Work Orders” as included in the 2000 Uniform Building Code – Section 401.2.4. Each building inspection ticket includes an erosion control section listing Pass, Fail or n/a. Failing erosion control measures require an explanation and follow up in order to improve erosion control performance. Engineering Technicians are usually assigned to major projects and provide constant supervision of erosion and sediment control measures on site.

The City will maintain written enforcement response procedures to compel compliance with construction stormwater ordinances.

City employees responsible for site reviews and inspections will receive training and previously trained individuals will attend a refresher every three years.

<b>Measurable Goals:</b>
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- Log site performance on building inspection tickets.
- Log reports of SWPPP noncompliance.

<b>Timeline/Implementation Schedule:</b>
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- 2007-2011 Report on enforcement activity with each annual report.
- Follow the procedures of the MPCA General Permit for Construction Storm Water Activity
- Inspect sites throughout construction phases

<b>Specific Components and Notes:</b>
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Building inspectors are the most obvious enforcers of SWPPP guidelines, but other city employees are routinely on or around job sites and can report noncompliance issues to responsible parties between regular inspections.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Service Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROL

Unique BMP Identification Number: 4.7 (Permit 19.16)

<b>BMP Title:</b>	<b>Annual Assessment</b>
<b>BMP Description:</b> The City of Red Wing will conduct an annual assessment of the public participation and involvement to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.  Location(s) in SWPPP of detailed information relating to this BMP: 4.1-4.6	
<b>Measurable Goals:</b> <ul style="list-style-type: none"><li>• Record measureable requirements from each BMP</li><li>• Publish and annual summary of activities on the City website</li></ul>	
<b>Timeline/Implementation Schedule:</b> <ul style="list-style-type: none"><li>• Conduct the annual assessment in February – March of the follow year.</li></ul>	
<b>Specific Components and Notes:</b> <ul style="list-style-type: none"><li>• Evaluate each BMP to determine how the program can be improved and make changes with input for staff, leaders, and the public.</li></ul>	
<b>Responsible Party for this BMP:</b> Name: Kelsey Van Deusen, Environmental Services Manager Department: Public Works Phone: (651) 385-5143 E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>	

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POST CONSTRUCTION RUNOFF CONTROL

Unique BMP Identification Number: 5.1 (Permit 20.2)

<b>BMP Title:</b> <b>Development of Structural and/or Non-Structural BMPs</b>
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<b>BMP Description:</b>
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<p>The City will require continuous storm water pollution prevention after all new construction is completed. Calculated peak discharge rates will determine the extent of structural and non-structural BMPs. General requirements for storm water management on post construction sites are addressed in Zoning Ordinance 57-080-G: "Storm Water Management Criteria for Permanent Storm Water Detention Facilities." These general requirements specify consideration of natural topography and detail BMPs including:</p> <ol style="list-style-type: none"><li>1. Natural infiltration of precipitation and runoff on-site.</li><li>2. Flow attenuation by use of open vegetated swales, and natural depressions.</li><li>3. Storm water retention facilities.</li><li>4. Storm water detention facilities.</li></ol>
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<b>Measurable Goals:</b>
--------------------------

- |   |
|---|
| <ul style="list-style-type: none"><li>• Track the number of structural BMPs.</li><li>• Track the number of non-structural BMPs.</li></ul> |
|---|

<b>Timeline/Implementation Schedule:</b>
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- |   |
|---|
| <ul style="list-style-type: none"><li>• 2007 Continue support for lessening of impervious surfaces in subdivisions with smaller access roads and multi-family home construction.</li><li>• 2008 Encourage storm sewer alternatives.</li><li>• 2009 Begin to plan a storm water mitigation project.</li><li>• Site actual local progress and explain storm water pollution prevention features in the community newsletter</li></ul> |
|---|

<b>Specific Components and Notes:</b>
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<p>The City of Red Wing already has subdivisions with smaller impervious footprints. These positive developments need to be explained to the public.</p> <p>The City also collects runoff fees to upgrade the storm water management of existing areas.</p>
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<b>Responsible Party for this BMP:</b>
--

<p>Name: Kelsey Van Deusen, Environmental Services Manager</p> <p>Department: Public Works</p> <p>Phone: (651) 385-5143</p> <p>E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a></p>
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## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POST CONSTRUCTION RUNOFF CONTROL

Unique BMP Identification Number: 5.2 (Permit Section 20.1)

**BMP Title:** **Implementation of Structural and Non-Structural BMPs**

**BMP Description:**

The City of Red Wing will continue to require the use of structural and non-structural BPMS for slowing storm water leaving a new development to the predevelopment runoff rate. The City will continue to require all land surface disturbances to be mulched, seeded, sodded, or otherwise protected to prevent erosion, siltation, sedimentation and washing.

**Measurable Goals:**

- Continue to require detention/treatment basins, vegetative cover, concrete swales, and manufactured BMP'S with site plan reviews.
- Track number and type of BMP'S incorporated into site plans.

**Timeline/Implementation Schedule:**

- Report on number and type of BMPs installed with each annual report.

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POST CONSTRUCTION RUNOFF CONTROL

Unique BMP Identification Number: 5.3 (Permit 20.3-20.15, 20.19)

<b>BMP Title:</b>	<b>Regulation of Post Construction Runoff from New Development and Redevelopment</b>
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<b>BMP Description:</b>
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The City of Red Wing will continue to utilize its zoning ordinance Chapter 57: Storm Water Management Plan which was adopted in the year 2000 and was amended December 11, 2006. Zoning Ordinance 57 is a SWPPP compliant plan for future development. This document outlines storm water planning requirements and the means for compliance. By requiring up to 3 permits/reviews, the City of Red Wing maintains regulatory control of storm water issues involved in Building Permits, Grading Permits, and Grading Plan Reviews.

<b>Measurable Goals:</b>
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- Continue to use Storm Water Management Regulations.

<b>Timeline/Implementation Schedule:</b>
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- In order to comply with permit language and intent, this BMP will be in place by June 30, 2008.
- Prior to the Annual Meeting each year, the Public Works Infrastructure Asset Coordinator will attend a Department/Division Head Meeting in order to discuss SWPPP implementation and compliance issues. Representatives from Public Works, Engineering, and Zoning will receive information and will have direct input about SWPPP maintenance at this meeting.

<b>Specific Components and Notes:</b>
---------------------------------------

Division 57: Storm Water Management Regulations was planned and adopted specifically to further the SWPPP. It requires erosion and sediment controls and provides sanctions to insure compliance. After comprehensive ordinance review by the Infrastructure Asset Coordinator, Division 57 was amended to comply with SWPPP requirements concerning disturbed land size and unavailability of waivers. These amendments were presented to the City Planner who reviewed the submission and forwarded it to the Planning Commission on November 27, 2006. Public notice obligations for presentation and approval by City Council were completed and the ordinance was amended December 11, 2006.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POST CONSTRUCTION RUNOFF CONTROL

Unique BMP Identification Number: 5.4 (Permit 20.16)

**BMP Title:** Long Term Operation and Maintenance of BMPs

**BMP Description:**

The City of Red Wing will inspect non-structural BMPs on a regular basis to insure proper function and will implement a regular maintenance program to protect their usefulness. The City has an inspection program for all walkable storm sewers and uses camera equipment for other lines. Annual maintenance records are being maintained but a routine maintenance calendar needs to be adopted. Vactor equipment is used for routine maintenance of storm sewers and BMPs. In the case of collapse or disrepair, city workers or the public can notify Red Wing Public Works and an inspection work order will be created. Determination will be made if it is an emergency that requires immediate action or when repairs can be scheduled during the nearest construction season. A public works primary supervisor will designate a principal work director to complete all repairs.

Location(s) in SWPPP of detailed information relating to this BMP: 6B-2

**Measurable Goals:**

- Record BMP sites inspected.
- Record BMP site maintenance.
- Inspection and maintenance efforts will be logged for annual reporting.
- Develop standard operating procedures and preventive maintenance plans for storm and sanitary sewer systems.

**Timeline/Implementation Schedule:**

- Report BMP Inspections and maintenance with each annual report.
- 2009- Complete standard operating procedures and preventive maintenance schedules for storm sewer systems and components. Establish a routine maintenance calendar.
- Use completed procedures and schedules for Annual Report information.
- Annual measurements of retention pond infill and adopt plan for silt removal and pond rehabilitation if necessary.

**Specific Components and Notes:**

Recording annual inspection and maintenance efforts will demonstrate a comprehensive maintenance program for the public. The infrastructure asset management program: CarteGraph allows for inspection and maintenance events in its database. These records can be queried at any time and will be queried and reported on for the annual report.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)



## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POST CONSTRUCTION RUNOFF CONTROL

Unique BMP Identification Number: 5.5 (Permit 20.23)

<b>BMP Title:</b>	<b>Annual Assessment</b>
<b>BMP Description:</b> The City of Red Wing will conduct an annual assessment of the post construction runoff control program to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.  Location(s) in SWPPP of detailed information relating to this BMP: 5.1-5.4	
<b>Measurable Goals:</b> <ul style="list-style-type: none"><li>• Record measureable requirements from each BMP</li><li>• Publish and annual summary of activities on the City website</li></ul>	
<b>Timeline/Implementation Schedule:</b> <ul style="list-style-type: none"><li>• Conduct the annual assessment in February – March of the follow year.</li></ul>	
<b>Specific Components and Notes:</b> <ul style="list-style-type: none"><li>• Evaluate each BMP to determine how the program can be improved and make changes with input for staff, leaders, and the public.</li></ul>	
<b>Responsible Party for this BMP:</b> Name: Kelsey Van Deusen, Environmental Services Manager Department: Public Works Phone: (651) 385-5143 E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>	

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.1 (Permit 21.4, 21.12)

### BMP Title: **Municipal Operations and Maintenance Program**

#### BMP Description:

The City of Red Wing will hold an informational training for Public Works, Police and Fire employees about Storm Water Pollution Prevention. The meeting will inform and involve all Public Works employees that might impact storm water quality in their day to day activities. The format of the meeting will center on a video highlighting eight significant pollution prevention practices including:

1. Vehicle and equipment washing
2. Vehicle and equipment maintenance
3. Good housekeeping
4. Spill reporting and response
5. Street maintenance
6. Outdoor storage of materials and wastes
7. Landscaping and lawn care
8. Illicit discharge detection and reporting

Location(s) in SWPPP of detailed information relating to this BMP: 1.9

#### Measurable Goals:

- All active employees including police, fire, vehicle maintenance, water, collections, streets and parks will participate in the presentation and their attendance will be documented.. Seasonal employees will also be introduced to storm water pollution prevention issues during their orientation meetings. Topics will include sewer separation, spill abatement and BMPs associated with lawn care.
- Meeting content will be updated to highlight all areas of storm water pollution prevention.

#### Timeline/Implementation Schedule:

- 2007- The Excal video will be presented in January of 2007.
- Seasonal help will participate in SWPPP training during their orientation meetings in June.
- An annual training session and update about storm water will be presented to field employees highlighting any local developments about storm water.
- Meeting content broadened to include other relevant storm water education materials.

#### Specific Components and Notes:

Municipal employees need to know that as a Municipal Separate Storm Sewer System (MS4) permitted city, Red Wing has an obligation to prevent storm water pollution by learning and implementing Best Management Practices (BMPs). The educational video clearly explains what needs to be done and at the same time reinforces many of the BMPs that are already being done.

#### Responsible Party for this BMP:

Name:	Kelsey Van Deusen, Environmental Services Manager
Department:	Public Works
Phone:	(651) 385-5143
E-mail:	<a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a>

## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6.2 (Permit Section 21.2)

**BMP Title:** **Street Sweeping**

**BMP Description:**

The City of Red Wing will continue to use an aggressive street sweeping program to keep refuse out of storm sewers. The City has a full time street sweeper who cleans all city streets at least three times each year with a seasonal emphasis on sand removal (from winter road maintenance) in the spring and leaf removal in the autumn. Road sand from sweeping cannot be recycled due to rounding (loss of abrasion) so it is stockpiled in the materials yard as on site fill. Leaf pick-up is composted. Street sweeping personnel report any backups to collection workers who use Vactor equipment to clean catch basins and storm sewer lines.

**Measurable Goals:**

- Street sweepers will use a systematic sweeping schedule to complete a minimum of three public street sweepings per year.
- Log books will serve as documentation of work completed.

**Timeline/Implementation Schedule:**

- Street sweeping is an ongoing street maintenance procedure and will be continued at current efficiency.

**Specific Components and Notes:**

Street sweeps are recorded in Cartegraph as well as the amount of material collected.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.3 (Permit 18.7, 21.9)

<b>BMP Title:</b> <b>Annual Inspection of All Structural Pollution Control Devices</b>
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<b>BMP Description:</b>
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The City of Red Wing will develop and implement an annual inspection, maintenance and tracking system for structural pollution control devices like sump catch basins and sump manholes. Results of inspection and maintenance operations will be summarized in the annual report. These inspections will include illicit discharge detection during dry-weather conditions (72 hours of no precipitation.)

Location(s) in SWPPP of detailed information relating to this BMP: 5.4

<b>Measurable Goals:</b>
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- Implement an inspection, maintenance, reporting and tracking system.
- Summarize results of inspection and maintenance operations in the annual report for structural pollution controls.

<b>Timeline/Implementation Schedule:</b>
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- 2007- Begin required annual inspections.
- 2008 – Introduce software to initiate, track, and report on storm water infrastructure inspection and maintenance.
- 2009- Implement software to track storm sewer inspection and maintenance.
- Continue the City's annual storm water infrastructure inspection program documenting the location and condition of storm sewers and outfalls that were inspected.

<b>Specific Components and Notes:</b>
---------------------------------------

The City of Red Wing will continue its systematic street sweeping program and rely on operators to report on damaged or clogged catch basins and manholes. City crews will continue annual inspection and cleaning of all sump manholes. The Operation Foreman of Streets will continue to monitor any storm sewer back-ups and take corrective action to clean or repair the system as necessary.

Citizens are encouraged to report storm water drainage problems for correction by city crews.

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6.4 (Permit 18.7, 21.8-21.10)

**BMP Title:** **Inspection of a Minimum of 20 percent of Outfalls, Sediment Basins, and Ponds Each Year on a Rotating Basis**

**BMP Description:**

The City of Red Wing will inspect, at least 20% of the MS4 Outfalls, sediment basins, and ponds each year on a rotating basis. These inspections will include illicit discharge detection during dry-weather conditions (72 hours of no precipitation.)

**Measurable Goals:**

- Implement an inspection, maintenance, reporting and tracking system.
- Summarize the results of inspection and maintenance operations for at least 20% of outfalls, sediment basins and ponds in the annual report.

**Timeline/Implementation Schedule:**

- 2008- Begin required annual inspections.
- 2008 – Introduce software to initiate, track, and report on storm water infrastructure inspection and maintenance. This information will be included in the annual report.
- 2009-2011 Implement software to track the inspection and maintenance of the rotating 20% of outfalls, sediment basins and ponds.
- Continue inspections and tracking

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.5 (Permit 21.3)

**BMP Title:** **Inspection of All Exposed Stockpile, Storage, and Material Handling Areas**

**BMP Description:**

The City of Red Wing will inspect all exposed stockpile, storage, and material handling areas on a quarterly basis. The City of Red Wing has just one exposed stockpile, storage, and materials handling area. Because stockpiles are constantly in use during the construction season, city crews routinely inspect and manage that area. Any storm water threat from runoff is mitigated by the high ground and bowl-like topography of the storage area. The City of Red Wing will also inspect all snow storage and salt handling and storage areas monthly during the seasonal use.

**Measurable Goals:**

- Inspect all exposed stockpile, storage, and material handling areas on a quarterly basis.
- Record inspection findings for inclusion in the annual report.

**Timeline/Implementation Schedule:**

- Quarterly inspect all exposed stockpile, storage, and material handling areas.
- Monthly inspect all snow storage, and salt handling and storage areas during the seasonal use

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.6 (Permit 21.5-21.7)

**BMP Title:** **Snow and Ice Management Policy**

**BMP Description:**

The City of Red Wing will ensure that all salt is stored indoors or undercover on an impervious surface. Practices will be implemented to reduce exposure when transferring material from salt storage areas. The City will maintain a written snow and ice management policy for individuals that perform winter maintenance activities such as plowing and snow removal. These employees will receive annual training including the importance of protecting water quality, the BMPs used to minimize deicer use, and the tools and resources available in winter maintenance.

**Measurable Goals:**

- Inspect salt storage areas during use to ensure compliance
- Annually train winter maintenance staff and record attendance.

**Timeline/Implementation Schedule:**

- Annually train winter maintenance staff before winter season

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.7 (Permit 21.11)

<b>BMP Title:</b>	<b>Corrective Actions and Maintenance Based on Inspection Findings</b>
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<b>BMP Description:</b>
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The City of Red Wing will maintain its storm water pollution prevention infrastructure in order to prevent negative environmental impacts. Based on inspection results, necessary repairs and replacements will be completed as soon as possible; but at least within twelve months of the inspection that revealed the problem. If maintenance cannot be completed within one year, a schedule for completing the maintenance will be documented. Failure to make timely repairs will be reported in the annual report along with a schedule for repair or replacement.

Location(s) in SWPPP of detailed information relating to this BMP: 6.3 – 6.5

<b>Measurable Goals:</b>
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- Maintenance inspections of structural storm water pollution control devices like sump manholes, outfalls and exposed stockpiles will trigger corrective measures.
- Count the number of repairs, replacements, or maintenance measures resulting from above inspections.

<b>Timeline/Implementation Schedule:</b>
--

- 2007- Institute annual inspection and maintenance protocols.
- 2008- Begin software introduction for inspection and maintenance tracking.
- 2009-2011 Implement software for systematic SWPPP reporting and tracking.
- Continue tracking and reporting

<b>Specific Components and Notes:</b>
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None

<b>Responsible Party for this BMP:</b>
--

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)



## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6.8 (Permit 21.13-21.14)

**BMP Title:** **Record Reporting and Retention of all Inspections and Responses to the Inspections**

**BMP Description:**

The City of Red Wing will summarize the results of all SWPPP related inspections in the Annual Report. The City will maintain records of inspection dates, findings, and subsequent responses. Completion dates for repairs and any additional protection measures should be noted.

Location(s) in SWPPP of detailed information relating to this BMP: 6.3 – 6.6

**Measurable Goals:**

- Report findings at Annual Meeting.

**Timeline/Implementation Schedule:**

- 2008- Report findings and outcomes in first Annual Report.
- Continue to report findings at the Annual Meeting and include the information in the Annual Report.

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

**MS4 Name:** City of Red Wing, Minnesota

**Minimum Control Measure:** POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6.9 (Permit 21.9-21.11)

**BMP Title:** **Evaluation of Inspection Frequency**

**BMP Description:**

The City of Red Wing will keep records of storm water infrastructure inspections and their results. Records will include dates, and subsequent maintenance performed or recommended. Records may also include antecedent weather conditions, sediment storage, and capacity remaining. After two (2) years of inspections, if patterns of maintenance become apparent, the frequency of inspections may be adjusted. If maintenance or sediment removal is required as a result of the first two annual inspections, the frequency of inspection shall be increased to at least two (2) times annually, or more frequently as needed to prevent carry-over or washout of pollutants from the structures and maximize pollutant removal. If maintenance or sediment removal is not required as a result of both of the first two (2) annual inspections, the frequency may be reduced to once every two (2) years.

**Measurable Goals:**

- Completion of inspection records.
- Adjustment of inspection schedules based on field findings.

**Timeline/Implementation Schedule:**

- 2007-Begin annual inspections for SWPPP compliance.
- Maintain documentation of findings.
- 2009- Analyze data in order to adjust inspection schedule.
- Report analysis of infrastructure for condition and efficiency.

**Specific Components and Notes:**

None

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Unique BMP Identification Number: 6.10 (Permit 21.15)

<b>BMP Title:</b>	<b>Annual Assessment</b>
<b>BMP Description:</b>	<p>The City of Red Wing will conduct an annual assessment of the operations and maintenance program to evaluate program compliance, the status of achieving the measurable requirements, and determine how the program might be improved.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: 6.1-6.9</p>
<b>Measurable Goals:</b>	<ul style="list-style-type: none"><li>• Record measureable requirements from each BMP</li><li>• Publish and annual summary of activities on the City website</li></ul>
<b>Timeline/Implementation Schedule:</b>	<ul style="list-style-type: none"><li>• Conduct the annual assessment in February – March of the follow year.</li></ul>
<b>Specific Components and Notes:</b>	<ul style="list-style-type: none"><li>• Evaluate each BMP to determine how the program can be improved and make changes with input for staff, leaders, and the public.</li></ul>
<b>Responsible Party for this BMP:</b>	<p>Name: Kelsey Van Deusen, Environmental Services Manager</p> <p>Department: Public Works</p> <p>Phone: (651) 385-5143</p> <p>E-mail: <a href="mailto:swppp@ci.red-wing.mn.us">swppp@ci.red-wing.mn.us</a></p>

# BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Permit Condition: Permit 22.1 -22.7

Unique BMP Identification Number: 7.0

## BMP Title: Impaired Waters Review Process

### BMP Description:

The City of Red Wing will review all discharges from our MS4 system to impaired waters, as defined by the current USEPA approved 303(d) list.

In this review, the City of Red Wing will:

- Identify the Mississippi River, Cannon River, Spring Creek, Bullard Creek, Hay Creek and Lake Pepin as the impaired waters that are likely to be impacted by Red Wing's stormwater discharge. (Information provided by MPCA website.)
- Use infrastructure asset mapping along with the 1999 hydrology study prepared by Barr Engineering and entitled: "Watershed Management Plan," in order to identify all potential stormwater discharges to impaired waters.
- Delineate the watershed areas that contribute to the above discharges.
- Evaluate the hydrology, land use and other characteristics of the watershed areas that may impact the impaired water as a result of a stormwater discharge from our MS4.

Based in the review above, the City of Red Wing will determine if any changes to the existing stormwater system or BMPs are needed to minimize the impact of discharges from our MS4 to the impaired waters. If such modifications are deemed necessary, the City of Red Wing will modify its SWPPP and submit those modifications to the MPCA with the current year's annual report. In Red Wing's review, we will consider timing and long and short term costs. All assumptions, reasoning, and justification used to reach a conclusion on whether or not SWPPP revisions are necessary will be documented in the decision making process and records of this determination kept along with all records associated with the MS4 permit. A narrative summary of this review will then be prepared, and will identify any associated SWPPP revisions that were made.

### Measurable Goals:

- Integrate hydrology maps with field operation maps as a baseline of stormwater drainage patterns.
- Prepare a written inventory of storm water discharges into the impaired waters including information on outfalls to other rivers and streams that drain into the Mississippi River and Lake Pepin.
- Prepare a map that includes all impaired waters and delineated watersheds that may contribute to the impairment.
- Record a written overview of the conclusions reached through this review, including the decision making process used to determine what SWPPP revisions may be needed.
- Prepare a projected schedule and a timeline to incorporate any necessary changes into the SWPPP.

**Timeline/Implementation Schedule:**

2008- Identify what steps have already been taken by Red Wing to meet the requirements of section IV.D of the MS4 General Permit.

2008-2009 Pending the outcome from the Lake Pepin TMDL Study, identify impaired waters receiving likely impacts from Red Wing's stormwater discharges and locate those discharges.

2008-2011 Delineate watersheds contributing runoff to impaired waters.

2008-2010 Develop a map of discharges.

2009-2011 Complete an evaluation of hydrology, land use, and chemical analysis (if necessary)

2011 - Include information in the Annual Report to the MPCA about the overview of the impaired waters review and any changes to the SWPPP that have been deemed necessary through this review process.

**Specific Components and Notes:**

This process is to be reassessed annually over the course of the permit cycle. As new 303(d) lists with additional impaired waters listed are published in the future, the City of Red Wing will review changes to the list and conduct the necessary review of additional listed waters likely to be impacted by the MS4's stormwater discharges. When the USEPA approved TMDL is finalized, the City of Red Wing intends to implement compliance measures for all limits and requirements set forth in the TMDL in accordance with the schedule(s) outlined in the TMDL and the MS4 Permit.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

# Table of City of Red Wing MS4 Permit TMDL WLAs

10/30/2020



## 2020 Municipal Stormwater Permit TMDL WLAs List

### Municipal Separate Storm Sewer Systems (MS4)

Total Maximum Daily Load (TMDL), Wasteload Allocations (WLAs)

Permittee name	MS4 Permit #	TMDL project name	Waterbody ID	Waterbody name	WLA type	Numeric WLA	Units	Flow Condition	Percent Reduction	Pollutant	Annual/Daily	MPCA Recommendation	TMDL Approval Date	Notes
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501	Cannon River	Individual	44.500	billions of organism	Very High	Available	E. coli	Daily	2010	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501	Cannon River	Individual	13.850	billions of organism	High	Available	E. coli	Daily	2010	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501	Cannon River	Individual	7.650	billions of organism	Mid	Available	E. coli	Daily	2010	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501	Cannon River	Individual	4.460	billions of organism	Low	Available	E. coli	Daily	2010	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501	Cannon River	Individual	2.430	billions of organism	Very Low	Available	E. coli	Daily	2010	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569	Spring Creek	Individual	22.040	kg/day	Very High	Available	E. coli	Daily	2009	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569	Spring Creek	Individual	5.930	kg/day	High	Available	E. coli	Daily	2009	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569	Spring Creek	Individual	4.010	kg/day	Mid	Available	E. coli	Daily	2009	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569	Spring Creek	Individual	3.130	kg/day	Low	Available	E. coli	Daily	2009	2/16/2017	
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569	Spring Creek	Individual	2.300	kg/day	Very Low	Available	E. coli	Daily	2009	2/16/2017	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518	Hay Creek	Individual	9.300	billions of organism	Very High	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518	Hay Creek	Individual	7.300	billions of organism	High	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518	Hay Creek	Individual	6.700	billions of organism	Mid	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518	Hay Creek	Individual	5.900	billions of organism	Low	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518	Hay Creek	Individual	4.800	billions of organism	Very Low	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526	Bullard Creek	Individual	0.700	billions of organism	Very High	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526	Bullard Creek	Individual	0.500	billions of organism	High	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526	Bullard Creek	Individual	0.400	billions of organism	Mid	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526	Bullard Creek	Individual	0.400	billions of organism	Low	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526	Bullard Creek	Individual	0.300	billions of organism	Very Low	Available	E. coli	Daily	2010	Original TMDL Approved on 8/18/15, modification	
Red Wing city of	MS400235	South Metro Mississippi TSS TMDL	07040001-531	Mississippi River	Categorical	154.000	lbs/acre/year	Applicable	Available	TSS	Annual	Not Applicable	4/26/2016	

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Permit Condition: Permit 22.1 -22.7

Unique BMP Identification Number: 7.1

<b>BMP Title:</b> <b>Cannon River WRAPS TMDL 2011</b>
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**Summary:**

The Environmental Protection Agency of the United States, through Section 303d of the Clean Water Act, requires states to develop Total Maximum Daily Loads (TMDLs) plans for water bodies not meeting water quality standards. The purpose of a TMDL is to determine an allowable loading of a pollutant into a water body. The Cannon River and some of its tributaries are currently impaired for E. coli. To bring the water body back to meeting water quality standards, many sectors will need to make reductions in the amount of E. coli that is entering these water bodies. The City of Red Wing, along with other cities will be required to reduce E. coli concentrations from its storm drain effluent. The Cannon River WRAPS TMDL 2011 has identified WLAs for E. coli to the Cannon River and Spring Creek from the City of Red Wing.

**Structural and Non-Structural BMPs:**

- Mapped area of potential sources of bacteria such as dog parks and areas with a dense population of waterfowl
- Maintain pet waste pick-up bags in parks and open spaces, and look for new locations to install
- Remove organic matter by street sweeping
- Public education program on the impacts of pet waste on water quality
- Septic system regulatory control program

**Annual Cumulative Pollutant Load Reductions:**

The implementation plan for this TMDL does not specify a load reduction from the City of Red Wing.

**Pollutant Loading Rates to the Impaired Water:**

Pollutant loading rates to the impaired waters are shown in the Table of City of Red Wing MS4 Permit TMDL WLAs.

**Timeline/Implementation Schedule:**

Maintain all bacterial BMPs within the SWPPP

Seasonally (Spring and Fall) emphasize street sweeping

Annually publish information on pet and wildlife waste

**Specific Components and Notes:**

If financially and logistically feasible, sampling will be conducted during this permit cycle to determine if Red Wing is meeting the WLA.

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Permit Condition: Permit 22.1 -22.7

Unique BMP Identification Number: 7.3

<b>BMP Title:</b>	<b>Mississippi River – Lake Pepin (Wells Creek) TMDL 2008</b>
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**Summary:**

The Environmental Protection Agency of the United States, through Section 303d of the Clean Water Act, requires states to develop Total Maximum Daily Loads (TMDLs) plans for water bodies not meeting water quality standards. The purpose of a TMDL is to determine an allowable loading of a pollutant into a water body. The Mississippi River – Lake Pepin (Wells Creek) TMDL 2008 has identified WLAs for E. coli to Hay Creek and Bullard Creek from the City of Red Wing.

**Structural and Non-Structural BMPs:**

- Mapped area of potential sources of bacteria such as dog parks and areas with a dense population of waterfowl
- Maintain pet waste pick-up bags in parks and open spaces, and look for new locations to install
- Remove organic matter by street sweeping
- Public education program on the impacts of pet waste on water quality
- Septic system regulatory control plan

**Annual Cumulative Pollutant Load Reductions:**

This TMDL Report states that no reductions are required for the City of Red Wing MS4 due to the small drainage area contributing to these impaired waters. The WLA is being met.

**Pollutant Loading Rates to the Impaired Water:**

Pollutant loading rates to the impaired waters are shown in the Table of City of Red Wing MS4 Permit TMDL WLAs.

**Timeline/Implementation Schedule:**

Maintain all bacterial BMPs within the SWPPP

Seasonally (Spring and Fall) emphasize street sweeping

Annually publish information on pet and wildlife waste

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)



## BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Permit Condition: Permit 22.1 -22.7

Unique BMP Identification Number: 7.4

**BMP Title: South Metro Mississippi River TSS TMDL 2015**

**Summary:**

The Environmental Protection Agency of the United States, through Section 303d of the Clean Water Act, requires states to develop Total Maximum Daily Loads (TMDLs) plans for water bodies not meeting water quality standards. The purpose of a TMDL is to determine an allowable loading of a pollutant into a water body. The South Metro Mississippi River TSS TMDL 2015 has identified WLAs for TSS to the Mississippi River from the City of Red Wing.

**Structural and Non-Structural BMPs:**

- Remove organic matter by street sweeping
- Stormwater detention pond system

**Annual Cumulative Pollutant Load Reductions:**

This section is under development.

**Pollutant Loading Rates to the Impaired Water:**

This section is under development.

**Timeline/Implementation Schedule:**

This section is under development.

**Specific Components and Notes:**

**Responsible Party for this BMP:**

Name: Kelsey Van Deusen, Environmental Services Manager

Department: Public Works

Phone: (651) 385-5143

E-mail: [swppp@ci.red-wing.mn.us](mailto:swppp@ci.red-wing.mn.us)

## Summary of SWPPP Updates

### General

- 2018 Update all contacts for each BMP  
Minor formatting changes  
Update permit references
- 2021 Update for compliance with new 2020 MS4 General Permit  
Renumbered Unique BMP numbers for clarity  
Updated all permit references

### 1. Public Education and Outreach

1.1	Distribute Educational Materials <i>2018 - Utilize "The City Beat" and social media such as Twitter and Facebook.</i> <i>2021 – Expanded audience</i>
1.2	Implement a Public Education Program <i>2018 – Title changed from "Develop and Implement a Public Education Program"</i> <i>2018 - Utilize "The City Beat" and social media such as Twitter and Facebook.</i>
1.3	Implement a Student Education Program <i>2018 – Title changed from "Implement an Education Program"</i> <i>2021 – "Student Education Program" opportunities expanded</i>
1c-2	Implement Public Participation in an Educational Activity <i>2018 Utilize stencils instead of stampings on catch basins.</i> <i>2021 – Moved to Section 2.3 to reflect permit</i>
1.4	Education Program: Illicit Discharge Detection and Elimination <i>2018 – Title changed from "Provide Education About Illicit Discharge Detection and Elimination"</i> <i>2018 - Introduce door hangers in areas where illicit discharge has been detected.</i> <i>2021- Clarified action items</i>
1.5	Education Program: Deicers and Chloride Pollution <i>2021 – New education program</i>
1.6	Education Program: Pet Waste <i>2021 – New education program</i>
1.7	Education Program: Construction Site Runoff Control <i>2018 – Title changed from "Provide Education About Construction Site Runoff Control"</i> <i>2021 – Clarified activities</i>
1.8	Education Program: Post-Construction Storm Water Management in New Development and Redevelopment <i>2018 – Title changed from "Provide Education About Post-Construction Storm Water Management in New Development and Redevelopment"</i>
1.9	Education Program: Pollution Prevention/Good Housekeeping for Municipal Operators <i>2018 – Title changed from "Provide Education About Pollution Prevention/Good Housekeeping for Municipal Operations"</i> <i>2021 – audiences expanded to include Police and Fire</i>
1.10	Coordination of Education Program <i>2018 – Title changed from "Initiate Discussion with Goodhue County Soil and Water Conservation District on Storm Water Issues Including Status and Repair of Their Ditch Systems"</i>
1e-1	Annual Public Meeting <i>2021 – Moved to section 2.2 to reflect permit</i>

1.10	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>
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## **2. Public Involvement and Participation**

2.1	Comply with Public Notice Requirements <i>2021 – Updated communication</i>
2.2	Annual Public Meeting <i>2021 – Moved from previous section</i>
2.3	Public Involvement Activity <i>2021 – Moved from previous section; expanded involvement activities</i>
2.4	Solicit Public Opinion on the Adequacy of the SWPPP
2.5	Consider Public Input
2.6	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>

## **3. Illicit Discharge, Detection, and Elimination**

3.1	Update Existing Storm Sewer System Maps <i>2021 – updated Infrastrucuter Asset contact</i>
3.2	Regulatory Mechanisms <i>2021 – new permit requirement for removal of pet waste, existing ordinance</i>
3.3	Regulatory Control Program: Salt Storage <i>2021 – new permit requirement: salt storage ordinance</i>
3.4	Regulatory Control Program: Septic System Controls
3.5	Illicit Discharge Detection and Elimination Plan <i>2021 – Title changed from “Develop and Implement a Program to Detect/Address Non-Storm Water Discharges, Specifically Failing Septic Systems and Illegal Dumping”</i> <i>2021 – Inventory high priority areas, written procedures for plan, written ERP</i>
3.6	Public and City Employee Illicit Discharge Information Program <i>2021 – Clarified goals and action items</i>
3.7	Review of Non-Storm Water Discharges and Flows
3.8	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>

## **4. Construction Site Runoff Control**

4.1	Construction Runoff Ordinance <i>2021 – Update with the most current MPCA Construction Stormwater General Permit</i>
4.2	Construction Site Implementation of Erosion and Sediment Control BMPs <i>2021 – Title changed from “Implement Mn/DOT Construction Site Erosion and Sediment Control Handbook”</i>
4.3	Construction Site Waste Controls <i>2021 – Title changed from “Waste Controls for Construction Site Operators”</i>
4.4	Procedures for Site Plan Review
4.5	Public Complaints and Reports of Noncompliance <i>2018 - Addition of Environmental Services staff to receive complaints, record and follow up with inspections.</i> <i>2021 – Title changed from “Procedures for the Receipt and Consideration of Reports of Storm Water Noncomplainece”</i> <i>2021 – Follow procedures in MPCA Construction Stormwater Permit</i>
4.6	Procedures for Site Inspection and Enforcement <i>2021 – clarify training and written plans</i>

4.7	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>
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## 5. Post Construction Runoff Control

5.1	Development of Structural and Non-Structural BMPs
5.2	Implementation of Structural and Non-Structural BMPs
5.3	Regulation of Post Construction Runoff from New Development and Redevelopment
5.4	Long Term Operation and Maintenance of BMPs
5.5	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>

## 6. Pollution Prevention/Good Housekeeping

6.1	Municipal Operations and Maintenance Program <i>2018 - Title was changed from Good Housekeeping/Municipal Employee Training</i> <i>2018 - Training materials expanded to include other relevant training opportunities and material</i> <i>2021 – Audiences expanded to Police and Fire, training content expanded</i>
6.2	Street Sweeping <i>2021 – Clarify tracking and recording</i>
6.3	Annual Inspection of Structural Pollution Control Devices <i>2021 – Include illicit discharge in inspections</i>
6.4	Inspection of a Minimum of 20 Percent of Outfalls, Sediment Basins, and Ponds Each Year on a Rotating Basis <i>2021 – Include illicit discharge in inspections</i>
6.5	Inspection of All Exposed Stockpile, Storage, and Material Handling Areas <i>2018 - Inspection frequency increased from annually to quarterly.</i> <i>2021 – Include snow storage, and salt handling and storage.</i>
6.6	Snow and Ice Management Policy <i>2021 – New permit requirement</i>
6.7	Corrective Actions and Maintenance Based on Inspection Findings <i>2021 – Clarify maintenance schedule</i>
6.8	Report and Retention of Inspections and Results
6.9	Evaluation of Inspection Frequency
6.10	Annual Assessment <i>2021 – New BMP to formalized the assessment process</i>

## 7. Impaired Waters Review Process

7.1	Impaired Waters Review Process
7.2	Cannon River WRAPS TMDL 2011 <i>2021 – Added summary to SWPPP</i>
7.3	Mississippi River –Lake Pepin (Wells Creek) TMDL 2008 <i>2021 – Added summary to SWPPP</i>
7.4	South Metro Mississippi River TSS TMDL 2015 <i>2021 – Added summary to SWPPP</i>