City of Red Wing, Minnesota

Storm Water Pollution Prevention Plan

Prepared by
The City of Red Wing
315 West 4th Street
Red Wing, MN 55066

Updated July 2009

Description of the City of Red Wing

The City of Red Wing (est. pop. 16,274 [2006]) 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.

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.

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 Permit dated 3/3/06.

A. Public Education and Outreach

1a-1	Distribute Educational Materials	Pg. 9	V.G.1.a
1b-1	Develop and Implement a Public Education Program	Pg. 10	V.G.1.b
1c-1	Implement an Education Program	Pg. 11	V.G.1.c
1c-2	Implement Public Participation in an Educational Activity	Pg. 12	V.G.1.c
1c-3	Provide Education About Illicit Discharge Detection and Elimination	Pg. 13	V.G.1.c
1c-4	Provide Education About Construction Site Runoff Control	Pg. 14	V.G.1.c
1c-5	Provide Education About Post-Construction Storm Water Management in New Development and Redevelopment	Pg. 15	V.G.1.c
1c-6	Provide Education About Pollution Prevention/Good Housekeeping for Municipal Operations	Pg. 16	V.G.1.c
1d-1	Initiate Discussion with Goodhue County Soil and Water Conservation District on Storm Water Issues Including Status and Repair of Their Ditch Systems.	Pg. 17	V.G.1.d
1e-1	Conduct Annual Public Meeting	Pg. 18	V.G.1.e

B. Public Involvement and Participation

2a-1	Follow Applicable Public Notice Requirements	Pg. 19	V.G.2.a
2b-1	Solicit Public and Opinion on the Adequacy of the SWPPP	Pg. 20	V.G.2.b
2c-1	Consider Public Input	Pg. 21	V.G.2.c

C. Illicit Discharge, Detection, and Elimination

3a-1	Update Existing Storm Sewer System Maps	Pg. 22	V.G.3.a
3b-1	Regulatory Mechanisms	Pg. 23-24	V.G.3.b
3b-1.a	Septic System Controls	Pg. 25	V.G.3.b
3c-1	Develop and Implement a Program to Detect/Address Non -Storm Water Discharges, Specifically Failing Septic Systems and Illegal Dumping	Pg. 26	V.G.3.c
3d-1	Public and City Employee Illicit Discharge Information Pro gram	Pg. 27	V.G.3.d
3e-1	Review of Non-Storm Water Discharges and Flows	Pg. 28	V.G.3.e

D. Construction Site Runoff Control

4a-1	Construction Runoff Ordinance	Pg. 29	V.G.4.a
4b-1	Implement BWSR'S MN Construction Site Erosion and Sediment Control Handbook	Pg. 30	V.G.4.b
4c-1	Construction Site Waste Controls	Pg. 31	V.G.4.c
4d-1	Procedures for Site Plan Review	Pg. 32	V.G.4.d
4e-1	Public Non-Compliance Complaints and Reports	Pg. 33	V.G.4.e
4f-1	Site Inspection and Enforcement	Pg. 34	V.G.4.f

E. Post Construction Runoff Control

5a-1	Strategic Implementation of Structural and Non-Structural BMPs	Pg. 35	V.G.5.a
5a-1.a	Detention, Stabilization, Structural, and Manufactured BMPs for Post Construction Site Runoff Controls	Pg. 36	V.G.5.a
5b-1	Regulation of Post Construction Runoff from New Development and Redevelopment	Pg. 37	V.G.5.b
5c-1	Long Term Operation and Maintenance of BMPs	Pg. 38	V.G.5.c

F. Pollution Prevention and Good Housekeeping

6a-1	Good Housekeeping/Municipal Employee Training	Pg. 39	V.G.6.a
6a-2	Street Sweeping	Pg. 40	V.G.6.a
6b-2	Annual Inspection of Structural Pollution Control Devices	Pg. 41	V.G.6.b.2
6b-3	20% Rotation Inspection of Outfalls, Sediment Basins and Ponds	Pg. 42	V.G.6.b.3
6b-4	Annual Inspection of All Exposed Stockpile, Storage, and Material Handling Areas	Pg. 43	V.G.6.b.4
6b-5	Corrective Actions and Maintenance Based on Inspection Findings	Pg. 44	V.G.6.b.5
6b-6	Report and Retention of Inspections and Results	Pg. 45	V.G.6.b.6
6b-7	Evaluation of Inspection Frequency	Pg. 46	V.G.6.b.7

G. Impaired Waters Review Process

IV.D-1 Impaired Waters Review Process Pg. 47 -48

H. Discharges to Waters with Prohibited or Restricted Discharges Assessment

IX. A. and/or IX. B. Discharges to Waters with Prohibited or Restricted Discharge Pg. 49 -50

Minnesota Pollution Control Agency

Stormwater General Permit (MN R 040000) Application for Small Municipal Separate Storm Sewer Systems (MS4s)

RETURN THIS APPLICATION TO:

Minnesota Pollution Control Agency
Municipal Division
520 Lafayette Road North
St. Paul, MN 55155-4194

NO FEE

PLEASE READ: As you complete this form, read the instructions carefully. Use your keyboard's "Tab" key to move through the fields of this form. Select check-boxes and enter text as indicated. Save and print.

I. MS4 Information

A. Application Type

☒ New applicant (this MS4 has no previous application for MS4 coverage on file at MPCA)

☐ Application for re-issuance of coverage (this MS4 applied in 2003)

B. MS4 Owner (city, county, community, municipality, government agency or other p arty/entity) with ownership or operational responsibility, or control of the MS4

CITY OF RED WING, MINNESOTA			
Community, municipality, agency or other party having ownership or operational control of the MS4			
315 WEST 4th STREET			
Mailing Address			
RED WING		MN	55066
City		*State*	*Zip Code*
GOODHUE			
County			
41-6005482	8024764		
Federal Tax ID	*State Tax ID*		

C. General Contact (director, department head, MS4 coordinator, consultant or other person with SWPPP implementation responsibility) for all general correspondence about Permit compliance issues between the MPCA and your MS4

DROTOS	PAUL	INFRASTRUCTURE ASSET COORDINATOR	
Last Name	*First Name*	*Title*	
229 TYLER ROAD NORTH			
Mailing Address			
RED WING		MN	55066
City		*State*	*Zip Code*
(651) 385-3674		paul.drotos@ci.red-wing.mn.us	
Telephone (include area code)		*E-mail Address*	

II. Certification of the Stormwater Pollution Prevention Program (SWPPP)

A. Have you developed a SWPPP for your MS4? ☒Yes

Municipalities must demonstrate how their SWPPP will be implemented and enforced over the term of the five-year Permit. SWPPPs must incorporate appropriate educational components, all required BMPs and the measurable goals associated with each. SWPPPs must address the specific requirements contained in Part V.G. of the Permit. SWPPPs must outline how the six Minimum Control Measures will be addressed, the contact person, department in charge, timeline and measures that will be implemented to meet the schedules required by the Permit. Attach a BMP Summary Sheet to this application for *each* BMP in your SWPPP.

B. Does your SWPPP address all of the six Minimum Control Measures as outlined in the Permit? ☒Yes

The Permit requires that you incorporate all six of the defined Minimum Control Measures in your SWPPP. You are required to implement mandatory BMPs which are directly associated to each of the six Minimum Control Measures.

C. Have you attached the included BMP Summary Sheets, one for each of the BMPs required by the Permit? ☒Yes

There are 34 required BMPs all of which require that the provided BMP Summary Sheet be filled out completely and included with your SWPPP. If any of these required sheets are missing, your application will not be considered complete and will be returned to you.

III. Reporting and Recordkeeping

A. I have read and understand Part VI. *Evaluating, Recordkeeping, and Reporting* of the MS4 General Permit and certify that we intend to comply with the applicable requirements of those sections as well as the Permit as a whole. ☒Yes

B. Where will your SWPPP be available to the public for review?

Red Wing Public Works Department		www.red-wing.org
Name of Location		*If your SWPPP is available electronically, indicate location*
229 Tyler Road N.		
Street Address		
Red Wing	MN	**55066**
City	*State*	*ZIP Code*
Paul Drotos	(651) 385-3674	
Contact Name	*Contact Phone Number*	
8AM to 4PM		
Hours of Availability		

IV. Limitations of Coverage

A. Part II Limitations on Coverage and Appendix C

I have read and understand Part II *Coverage Under This Permit* and Appendix C *Limitations on Coverage* of the MS4 General Permit and certify that we intend to comply with the applicable requirements of those sections as well as the Permit as a whole. ☒Yes

B. Outstanding Resource Value Waters (ORVWs)

To complete this section, please refer to Part IX and the *List of Special Waters Attachment* in the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* available on the MPCA Web site at: http://www.pca.state.mn.us/publications/wq-strm4-25b.pdf. Lists of various categories of waters and an interactive map that identifies Special Waters are available on the MPCA Web site at: http://www.pca.state.mn.us/water/stormwater/stormwater-ms4.html#waters.

1. Prohibited Waters

Does the MS4 discharge into **Prohibited Waters** as defined in Minn. R. 7050.0180, subp. 3, 4, and 5? See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☐Yes ☒No

2. Restricted Discharge

Does the MS4 discharge into waters with a **Restricted Discharge** as defined in Minn. R. 7050.0180, subp. 6, 6a, and 6b? If Yes, please list below and comply with Part IX, Append ix C, Item B. See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☒Yes ☐No

3. Prohibited or Restricted Waters

If you answered "Yes" to either Question 1 or 2, have you included a map that outlines, at a minimum, the DNR minor sub-watersheds in your jurisdiction with ANY discharges to Prohibited or Restricted Waters? You are required by the Permit to provide this map along with your application. **[IX.B.2.b]** ☒Yes ☐No

Identify all discharges to Outstanding Resource Value Waters (ORVWs) from your MS4:

Name of Water Body	Type (lake, stream, river)
Cannon River (from Faribault to the Mississippi River)	River

4. If you answered "Yes" to either Question 1 or 2, who is the person responsible for ensuring compliance with this Permit condition?

Name: Paul Drotos *Position:* Environmental Officer *Phone:* 651-380-3798

C. Special Waters

1. Trout Waters

Does the MS4 discharge into **Trout Waters** as defined in Minn. R. 6264.0050, subp. 2 and 4? If Yes, please list below and comply with Part IX, Appendix C, Item C. See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☒Yes ☐No

Name of Water Body	Type (lake, stream)
Spring Creek	Stream
Trout Brook	Stream
Hay Creek	Stream

2. Wetlands

Does the MS4 discharge into **Wetlands** as defined in Minn. R. 7050.0130, subp. F? ☒Yes ☐No

D. Other Requirements

1. Environmental Review

Does the MS4 have a process to assure coordination with appropriate Agencies and to evaluate discharges that require applicable **Environmental Review** as required by State or federal laws? See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☒Yes ☐No

Who is the person responsible for ensuring compliance with this Permit condition?

Name: Ron Rosenthal *Position:* Director of Engineering *Phone:* (651) 385-3626

2. Endangered or Threatened Species

Does the MS4 have a process to assure coordination with appropriate Agencies and to evaluate discharges whose direct, indirect, interrelated, interconnected, or independent impacts may jeopardize a listed **Endangered or Threatened Species** or adversely modify a designated critical habitat? See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☒Yes ☐No

Who is the person responsible for ensuring compliance with this Permit condition?

Name: Brian Peterson *Position:* Planning Director *Phone:* (651) 385-3617

3. Historic Places and Archeological Sites

Does the MS4 have a process to assure coordination with appropriate Agencies and to evaluate discharges which may adversely affect properties listed or eligible for listing in the National Register of **Historic Places** or affecting known or discovered **archeological sites**? See Part IX of the *Guidance Manual for Small Municipal Separate Storm Sewer Systems (MS4s)* for further information. ☒Yes ☐No

Who is the person responsible for ensuring compliance with this Permit conditio n?

Name: Brian Peterson *Position:* Planning Director *Phone:* (651) 385-3617

4. Drinking Water Sources

Does the MS4 have any discharges that may affect Source Water Protection as defined in Part IX.H of the Permit? ☐Yes ☒No

If "Yes," does the MS4 have BMPs incorporated into the SWPPP to protect drinking water sources that the MS4 discharge may affect? ☐Yes ☐No

V. Owner or Operator Certification

The person with overall, MS4 legal responsibility must sign the application. This person shall be duly authorized to sign the application and may be either a principal executive officer or ranking elected official (Minn. R. 7001.0060).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete (Minn. R. 7001.0070).

I also certify under penalty of law that I have read, understood, and accepted all terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General Stormwater Permit for MS4s that authorizes stormwater discharges identified in this application form.

I understand that as a Permittee, I am legally accountable under the Clean Water Act to ensure compliance with the terms and conditions of the NPDES General Stormwater Permit for MS4s.

I also understand that MPCA enforcement actions (pursuant to Minn. Stat. §§ 115.07, 116.072, and Section 309 of the Clean Water Act) may be taken against me or the MS4 if the terms and conditions of the NPDES General Stormwater Permit for MS4s are not met.

Authorized Signature of the person with overall authority to certify intent to comply with the Permit and implement the SWPPP (principal executive officer or a ranking elected official).

X

Authorized Signature		*Date*
Kuhlmann	*Kay*	*City Council Administrator*
Last Name	*First Name*	*Title*
315 West 4th Street		
Mailing Address		
Red Wing	*MN*	*55066*
City	*State*	*ZIP Code*
(651) 385-3612	*kay.kuhlman@ci.red-wing.mn.us*	
Telephone (include area code)	*E-mail Address*	

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: 1-PUBLIC EDUCATION AND OUTREACH
Unique BMP Identification Number: 1a-1

***BMP Title:** Distribute Educational Materials

***BMP Description: (V.G.1.a)**

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 Current," the city will produce and distribute informative articles about 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. Both media can reach and teach citizens about how to protect storm water from pollution. Articles in "The Current" as well as on the TV Community Calendar can inform citizens about public 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: 1C-3,1C-4,3D-1

***Measurable Goals:**

- At least two informational articles per year in, "The Current."
- 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 Current."
- 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:**

- 2006 – Articles were published and videos were aired.
- 2007 – 2011 Publish articles and air public service announcements for the duration of the permit.
- 2007 – 2011 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:

The editor of "The Current" flags copy for annual submission so that the required text will get published. Public Access Television is always looking for informational videos to broadcast. A PSA entitled, "After the Rain: Urban Runoff," was shown in 2006 and will be rebroadcast in 2007 and each year there after. A 2005 City of Red Wing video production entitled, "Inside Red Wing's Water and Sewer," will also be shown each year.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works Department
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

**Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incompleteness.*

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure: 1-PUBLIC EDUCATION AND OUTREACH

Unique BMP Identification Number: 1b-1

***BMP Title:** Develop and Implement a Public Education Program

BMP Description: (V.G.1.b)

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 **M**inimum **C**ontrol **M**easures:

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 Current," and its website: www.red-wing.org in order to provide relevant information about storm water pollution and storm water pollution mitigation. "The Current" 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: 1A-1, 1C-1

Measurable Goals:

- Implement a public education program.
- Record the number of information items provided to the public.
- Develop a web page in the City's website.
- Broadcast PSA's.
- Develop and present a seventh grade science program.

Timeline/Implementation Schedule:

- 2007 – Draft a public education program informing citizens about storm water issues.
- 2007-2011 - Publish information about the SWPPP in the community newsletter.
- 2007 – Dedicate web pages in the City website for storm water issues including BMPs.
- 2008-2011 - Update the web pages before each annual meeting.
- 2007 – Implement an annual public school education program.

Specific Components and Notes:

Educational materials will inform residents about the effects of pollute d 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: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

**Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incomp leteness.*

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Education and Outreach
Unique BMP Identification Number: 1c-1

***BMP Title:** Implement an Education Program

Audience(s) Involved: (V.G.1.c)
A representative of the City of Red Wing in conjunction with School District #256 will p resent storm water pollution prevention information for 7th grade science students at Twin Bluff Middle School.

Educational Goals for Each Audience:
Students will be exposed to storm water issues like impervious surfaces and runoff to the Mississippi Rive r. Sources of pollution will be discussed along with ways that students can help to 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. This will be an annual program in order to eventually reach all of our public school students.

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

Activities Used to Reach Educational Goals:
Middle school seventh grade science 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 informatio n across. An attendance sheet will document all the students that participate.

Activity Implementation Plan:
The first classroom outreach will be in the spring of 2007.
Five out of seven classes (one science teacher's classroom) will serve as a pilot pro gram to introduce students to SWPPP information and issues.
This will be an annual program with curriculum designed to engage all students and eventually reach all students in one grade level.
Feedback from classroom teachers will be solicited in order to improve the presentation.

Performance Measures:
City representatives will work closely with middle school science 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: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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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: 1c-2

***BMP Title:** Implement Public Participation in an Educational Activity

Audience(s) Involved : (V.G.1.c)

The City of Red Wing will involve young volunteers and their leaders from area Boy Scout and Girl Scout troops in order to label catch basins with permanent "NO DUMPING *** DRAINS TO RIVER" signs. Scout leaders have pledged support for this project in 2007 and the City of Red Wing has purchased 200 stampings that need to be permanently glued on or near catch basins.

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

Educational Goals for Each Audience:

Volunteers will be made aware of how directly storm water goes from catch basins to the river by seeing outfalls from storm sewers dumping right into the Mississippi River. This understanding will motivate them to tell others how important pollution prevention is by using the "NO DUMPING *** DRAINS TO RIVER" signage.

Activities Used to Reach Educational Goals:

Volunteers will be given information about storm sewer systems and will be taught how to affix the in formative stampings. An informational meeting will be held before the markers are affixed in order to explain how storm drains work and what kinds of things can pollute storm water. Students will also be shown maps of the areas where they will be working and will also be shown how GPS equipment works. Safe practices will be discussed and practiced in the field.
This project will be carried out on a Saturday (weather permitting) before June 30, 2007
Scout volunteers will sign an attendance sheet and marked catch basins will be noted on the City of Red Wing's GIS map.

Activity Implementation Plan:

In the spring of 2007, the scouts will begin this project.
Working together as a group, Scouts will be shown storm water outlets that dump directly into the river . This visual aide will help them understand where the storm water is going and how important it is to keep it clean.
Photographs will document the work being done so that an informational article can be published.

Performance Measures:

- Number of signs attached.
- Number of individuals participating.
- Number of media stories published.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

**Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incompleteness.*

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Education and Outreach
Unique BMP Identification Number: 1c-3

***BMP Title:** Provide Education About Illicit Discharge Detection and Eliminatio n

Audience(s) Involved: (V.G.1.c)

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 ta rget audience.

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

Educational Goals for Each Audience:

Pollution prevention starts with an understanding about what can and cannot be dumped into a storm sewer. A basi c 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:

An article detailing how separated sewers work will be published in the Community newsletter, "The Current."
The exclusive use of storm sewers for storm water will be stressed. Recycling times and locations for motor oil will be published along with Goodhue County's household hazardous waste drop-off schedule.
The City's 2004-2005 informational video entitled, "Inside Red Wing's Sewer and Water System" will continue to be broadcast each year.

Activity Implementation Plan:

2007 – Describe the City's sewer system for the average citizen in order to explain why storm sewers need protection form pollution.
2008 – 2011 continue to emphasize sewer information and prohibitions in City media.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asse t Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

**Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incompleteness.*

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Education and Outreach
Unique BMP Identification Number: 1c-4

***BMP Title:** Provide Education About Construction Site Runoff Control

Audience(s) Involved: (V.G.1.c)

Contractors and developers are given educational packets before submitting development plans. Information included in Chapter 57 of the Zoning Code is referenced and specific info rmation about Erosion Control requirements is provided with the building permit. City workers also undertake construction projects that require runoff controls.

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

Educational Goals for Each Audience:

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.

Activities Used to reach Educational Goals:

An attachment will be made to all building and grading permits disturbing more than one acre which outlines erosion control requirements. City crews will be informed about SWPPP compliance issues.

Activity Implementation Plan:

2007- Include SWPPP information with grading and building permits. (Applicable references from City Zoning Code, Chapter 57)

Performance Measures:

Count the number of grading and building permits requiring the "Erosion Control Requirements"

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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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: 1c-5

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

Audience(s) Involved: (V.G.1.c)

The development Community, contractors and City crews.

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

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.

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:**

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Department: Public Works

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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: 1c-6

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

Audience(s) Involved: (V.G.1.c)

City staff and crews will be the primary target of this information.

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

Educational Goals for Each Audience:

City workers 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.
Annually- SWPPP information and training session will be held.

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:**

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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: 1d-1

***BMP Title:** **Initiate Discussion with Goodhue County Soil and Water Conservation District on Storm Water Issues Including Status and Repair of Their Ditch Systems.**

***BMP Description: (V.G.1.d)**

A City of Red Wing representative will meet annually 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.

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

***Measurable Goals:**

- 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.

***Timeline/Implementation Schedule:**

- 2006-2011 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.

Specific Components and Notes:

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 offers geologic and scientific background on water quality issues.

***Responsible Party for this BMP:**

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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: 1e-1

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

***BMP Description: (V.G.1.e)**

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 prov ided and the best management practices (BMPs) being utilized.

Location(s) in SWPPP of detailed information relating to this BMP: 2A -1, 2B-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. The first annual report is due June 30, 2008.
- Record the number of attendees at the annual meeting.
- Keep minutes of the meeting including citizen concerns and sug gestions.

***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 writt en material.
- 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 meting. Suggestions about improving the SW PPP will be considered and relevant adjustments can be made as the City of Red Wing deems appropriate.

***Responsible Party for this BMP:**

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Department: Public Works
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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Participation and Involvement
Unique BMP Identification Number: 2a-1

***BMP Title:** Follow Applicable Public Notice Requirements

***BMP Description: (V.G.2.a)**

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 R ed 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 Current" and on the City's website: www.red-wing.org. 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 g ive the time, the date, the location and the description of how the meeting will be conducted. The MPCA, along with city and county officials, will be invited. 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.

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

***Measurable Goals:**

- Completed public notice with documentation.
- Certified mail copy of meeting notice to MPCA.

***Timeline/Implementation Schedule:**

- Public Notice will be issued 30 days prior to meeting.
- Notice of the first annual meeting in 2008 will meet all mandatory requirements.
- Meeting must be held before annual report submission on June 30.
- Meeting will be held every year.

Specific Components and Notes:

- Date
- Time
- Location
- Description of how meeting will be conducted
- Location of SWPPP document for review prior to the meeting
- Location of posted notice

***Responsible Party for this BMP:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Participation and Involvement
Unique BMP Identification Number: 2b-1

***BMP Title:** Solicit Public and Opinion on the Adequacy of the SWPPP

***BMP Description: (V.G.2.b.1)**

The Completed SWPPP will be presented to City Council in session prior to submission to t he 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: 1E -1, 2A-1, 2E-1

***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.
- 2007-2011 Maintain storm water pages on the City's web site.

Specific Components and Notes:

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

***Responsible Party for this BMP:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Public Involvement and Participation
Unique BMP Identification Number: 2c-1

***BMP Title:** Consider Public Input

***BMP Description: (V.G.2.c)**

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: 2B -1

***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:**

- 2007- Study public responses and comments to SWPPP posted on website.
- 2007- Maintain an open door policy concerning SWPPP issues. Get input.
- 2008- 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.

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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: 3a-1

***BMP Title:** Update Existing Storm Sewer System Maps

***BMP Description: (V.G.3.a)**

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" 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.

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

***Measurable Goals:**

- Update storm sewer maps each year in order to include any changes in the system.
- Map concrete swales on hillsides for inspection and maintenance follow up.
- Provide maps for civic groups or informational meetings requiring maps e xcept where such information could conflict with Homeland Security Regulations.

***Timeline/Implementation Schedule:**

- 2007 – Complete updating map information for all 24 inch and larger conveyances.
- 2008 – Complete a systematic storm sewer map.
- 2009 – Complete mapping hillside storm water swales for inclusion in storm water maps.

Specific Components and Notes:

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.

***Responsible Party for this BMP:**

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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: 3b-1

***BMP Title: Regulatory Mechanisms**

***BMP Description: (V.G.3.b)**

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.

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

***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 – Work with City Attorney to prepare new ordinance.
- 2008 – City Council approval of ordinance.
- 2008 – Start to implement and enforce 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:**

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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: 3b-1.a

***BMP Title:** Septic System Controls

***BMP Description: (V.G.3.b)**

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 environme ntal 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 wat er 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 into the City's sanitary sewage system at specific locations by permit.

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

***Measurable Goals:**

- Inspect septic systems at time of new installation or repair and replacement.
- Follow up on complaints of system overflows.
- Maintain reporting of septage haulers.

***Timeline/Implementation Schedule:**

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

Specific Components and Notes:

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 Dep artment. 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)

***Responsible Party for this BMP:**

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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: 3c-1

***BMP Title:** Develop and Implement a Program to Detect/Address Non-Storm Water Discharges, Specifically Failing Septic Systems and Illegal Dumping

***BMP Description: (V.G.3.c)**

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, and the utilities department 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 tell tale 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. Fire fighters 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 responder: Mike Wilson, of Wilson Oil company. Wilson maintains a hazmat trailer which is always available to the fire department at his place of business: 2355 Old West Main St., 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.

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

***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:**

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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: 3d-1

***BMP Title:** Public and City Employee Illicit Discharge Information Program

***BMP Description: (V.G.3.d)**

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: 1A -1

***Measurable Goals:**

- Identify outreach materials.
- Provide education information to employees, businesses, property owners, and the public.

***Timeline/Implementation Schedule:**

- 2007 – Identify outreach material.
- 2008 – Determine format and timing of distribution.
- Report educational information that is disseminated each year with each annual report.

Specific Components and Notes:

The City's newsletter, "The Current," 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.

***Responsible Party for this BMP:**

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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: 3e-1

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

***BMP Description: (V.G.6.b.4)**

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. Curre ntly, 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.

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

***Measurable Goals:**

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

***Timeline/Implementation Schedule:**

- 2007-2011 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:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Construction Site Runoff Control
Unique BMP Identification Number: 4a-1

***BMP Title:** Construction Runoff Ordinance

***BMP Description: (V.G.4.a)**

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 pra ctices through zoning ordinance requirements, wetland protection requirements, and the City's Tree Preservation Policy.

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

***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.

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:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Construction Site Runoff Control
Unique BMP Identification Number: 4b-1

***BMP Title:** Implement BWSR'S MN Construction Site Erosion and Sediment Control Handbook

***BMP Description: (V.G.4.b)**

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 BWSR'S MN 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 practic es into each construction project.

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

***Measurable Goals:**

- 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.

***Timeline/Implementation Schedule:**

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

Specific Components and Notes:

- 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.

***Responsible Party for this BMP:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Construction Site Runoff Controls
Unique BMP Identification Number: 4c-1

***BMP Title:** Construction Site Waste Controls

***BMP Description: (V.G.4.c)**

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.

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

***Measurable Goals:**

- Inspection of construction sites for waste and debris control.

***Timeline/Implementation Schedule:**

- Report status with each annual report.

Specific Components and Notes:

The Zoning Code which is enforced by the Building Inspection Department requires waste control measures on each construction site.

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

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

**Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incompleteness.*

BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Construction Site Runoff Controls
Unique BMP Identification Number: 4d-1

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

***BMP Description: (V.G.4.d)**

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.

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

***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: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure:
- Public Participation & Involvement
- Construction Site Runoff Controls

Unique BMP Identification Number: 4e-1

***BMP Title:** Public Non-Compliance Complaints and Reports

***BMP Description: (V.G.4.e)**

The City of Red Wing's Building Inspection Department will continue to investigate complaints received about construction site runoff. Complaints and reports are received at Community Devel opment and at Public Works. Reports of noncompliance from city workers or the public will be forwarded to the Building Inspection Department and will be logged. Building inspection 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.

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

***Measurable Goals:**

- 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.

***Timeline/Implementation Schedule:**

- 2008 – Report number of issues and complaints received on construction sites with each annual report.
- 2009-2011 Continue to report complaints and explain re solutions.

Specific Components and Notes:

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 an d then given to the construction site inspector for possible follow -up is sufficient.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota

Minimum Control Measure:
- **Public Education & Outreach**
- **Public Participation & Involvement**
- **Construction Site Runoff Controls**

Unique BMP Identification Number: 4f-1

***BMP Title:** Site Inspection and Enforcement

***BMP Description: (V.G.4.f)**

The City of Red Wing Building Inspection Department will continue to perform site inspections, 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 measurers on site.

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

***Measurable Goals:**

- Log site performance on building inspection tickets.
- Log reports of SWPPP noncompliance.

***Timeline/Implementation Schedule:**

- 2007-2011 Report on enforcement activity with each annual report.

Specific Components and Notes:

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.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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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: 5f-1

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

***BMP Description: (V.G.5.a)**

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:

1. Natural infiltration of precipitation and runoff on-site.
2. Flow attenuation by use of open vegetated swales, and natural depressions.
3. Storm water retention facilities.
4. Storm water detention facilities.

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

***Measurable Goals:**

- Track the number of structural BMPs.
- Track the number of non-structural BMPs.

***Timeline/Implementation Schedule:**

- 2007 Continue support for lessening of impervious surfaces in subdivisions with smaller access roads and multi-family home construction.
- 2008 Encourage storm sewer alternatives.
- 2009 Begin to plan a storm water mitigation project.
- 2010-2011 Site actual local progress and explain storm water pollution prevention features in the community newsletter, "The Current."

Specific Components and Notes:

The City of Red Wing already has subdivisions with smaller impervious footprints. These positive developments need to be explained to the public.
The City also collects runoff fees to upgrade the storm water management of existing areas.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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Additional BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Post Construction Runoff Control
Unique BMP Identification Number: 5a-1.a

***BMP Title:** Detention, Stabilization, Structural, and Manufactured B MPs for Post Construction Site Runoff Controls

***BMP Description: (V.G.5.a)**

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

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

***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: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Post Construction Runoff
Unique BMP Identification Number: 5b-1

***BMP Title:** Regulation of Post Construction Runoff from New Development and Redevelopme nt

***BMP Description: (V.G.5.b)**

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, Grad ing Permits, and Grading Plan Reviews.

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

***Measurable Goals:**

- Continue to use Storm Water Management Regulations.

***Timeline/Implementation Schedule:**

- 2008- 2011 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.

Specific Components and Notes:

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 Com mission on November 27, 2006. Public notice obligations for presentation and approval by City Council were completed and the ordinance was amended December 11, 2006.

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Post Construction Storm Water Management
Unique BMP Identification Number: 5c-1

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

***BMP Description: (V.G.5.c)**

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. Vactor equipment is used for routine maintenance of storm sewers and BMPs.

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:**

- 2008 – Report BMP Inspections and maintenance with each annual report.
- 2008- Complete standard operating procedures and preventive maintenance schedules for storm sewer systems and components.
- 2009 – 2011 Begin annual measurements of retention pond siltification 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: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.rw-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention/Good Housekeeping
Unique BMP Identification Number: 6a-1

***BMP Title: Good Housekeeping/Municipal Employee Training**

***BMP Description: (V.G.6.a)**

The City of Red Wing will hold an informational meeting for Public Works 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 produced by Excal Visual entitled, "STORM WATCH: Municipal Storm Water Pollution Prevention." The video deals with 8 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: 1C-6

***Measurable Goals:**

- All active Public Works' employees including vehicle maintenance, water, collections, streets and parks will participate in the presentation and their attendance will be docum ented. After the video and a discussion period, a written test will be administered in order to reinforce the information. Seasonal employees will also be shown relevant parts of the video in order to help them to understand their responsibilities in a storm water conscious community. New employees will view the, "STORM WATCH," video as part of their orientation.

***Timeline/Implementation Schedule:**

- The Excal video will be presented in January of 2007. For the first time seasonal help will participate in storm water pollution prevention training during their orientation which is usually in June.
- An annual update about storm water will be presented to Public Works employees highlighting any local developments about storm water.

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:**

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E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention/Good Housekeeping
Unique BMP Identification Number: 6a-2

***BMP Title:** Street Sweeping

***BMP Description: (V.G.6.a)**

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.

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

***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:

None

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution prevention/Good housekeeping
Unique BMP Identification Number: 6b-2

***BMP Title:** Annual Inspection of Structural Pollution Co ntrol Devices

***BMP Description: (V.G.6.b.2)**

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.

Location(s) in SWPPP of detailed information relating to this BMP: 5C -1

***Measurable Goals:**

- Implement an inspection, maintenance, reporting and tracking system.
- Summarize results of inspection and maintenance operations in the annual report for structural pollution controls.

***Timeline/Implementation Schedule:**

- 2007- Begin required annual inspections.
- 2007 – Introduce software to initiate, track, and report on storm wa ter infrastructure inspection and maintenance.
- 2008- Implement software to track storm sewer inspection and maintenance.
- 2007-2011 continue the City's annual storm water infrastructure inspection program documenting the location and condition of storm sewers and outfalls that were inspected.

Specific Components and Notes:

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 annua l 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 draina ge problems for correction by city crews.

***Responsible Party for this BMP:**

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention and Good Housekeeping
Unique BMP Identification Number: 6b-3

***BMP Title:** 20% Rotating Inspection of Outfalls, Sediment Basins and Ponds

***BMP Description: (V.G.6.b.3)**

The City of Red Wing will inspect, at least 20% o f the MS4 Outfalls, sediment basins, and ponds each year on a rotating basis.

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

***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:**

- 2007- Begin required annual inspections.
- 2007 – Introduce software to initiate, track, and report on storm water infrastructure inspection and maintenance.
- 2008- Implement software to track the inspection and maintenance of the rotating 20% of outfalls, sediment basins and ponds.

Specific Components and Notes:

None

***Responsible Party for this BMP:**

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Department: Public Works
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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention and Good Housekeeping
Unique BMP Identification Number: 6b-4

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

***BMP Description: (V.G.6.b.4)**

The City of Red Wing will inspect all exposed stockpile, storage, and material ha ndling areas on an annual basis.

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

***Measurable Goals:**

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

***Timeline/Implementation Schedule:**

- 2007-2011 Annually inspect all exposed stockpile, storage, and material handling areas.

Specific Components and Notes:

None

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention and Good Housekeeping
Unique BMP Identification Number: 6b-5

***BMP Title: Corrective Actions and Maintenance Based on Inspection Findings**

***BMP Description: (V.G.6.b.5)**

The City of Red Wing will maintain its storm water pollution prevention infrastructure in order to prevent negative environmental impacts. Based on inspection results, necessa ry repairs and replacements will be completed as soon as possible; but at least in the same year as the inspection that revealed the problem. Failure to make timely repairs will be reported in the annual report along with a schedule for repair or replaceme nt.

Location(s) in SWPPP of detailed information relating to this BMP: 6B -2, 6B-3, 6B-4

***Measurable Goals:**

- 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.

***Timeline/Implementation Schedule:**

- 2007- Institute annual inspection and maintenance protocols.
- 2007- Begin software introduction for inspection and maintenance tracking.
- 2008- Implement software for systematic SWPPP re porting and tracking.

Specific Components and Notes:

None

***Responsible Party for this BMP:**

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Department: Public Works
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E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention and Good Housekeeping
Unique BMP Identification Number: 6b-6

***BMP Title:** Report and Retention of Inspections and Results

***BMP Description: (V.G.6.b.6)**

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: 6B -2, 6B-3, 6B-4, 6B-5

***Measurable Goals:**

- Report findings at Annual Meeting.

***Timeline/Implementation Schedule:**

- 2008- Report findings and outcomes in first Annual Report.

Specific Components and Notes:

None

***Responsible Party for this BMP:**

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Department: Public Works
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BMP Summary Sheet

MS4 Name: City of Red Wing, Minnesota
Minimum Control Measure: Pollution Prevention and Good Housekeeping
Unique BMP Identification Number: 6b-7

*BMP Title:	Evaluation of Inspection Frequency

***BMP Description: (V.G.6.b.7)**

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. Aft er 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.

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

***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.

Specific Components and Notes:

None

***Responsible Party for this BMP:**

Name: Paul Drotos, Infrastructure Asset Coordinator
Department: Public Works
Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

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BMP Summary Sheet

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

Permit Condition: IV.D Section 303(d) listings

Unique BMP Identification Number: IV.D – 1

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 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. I f 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 assumpt ions, 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 stormwater discharges into the Mississippi River and Lake Pepin 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 wate rs 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)
2008-2011 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 inte nds 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: Paul Drotos, Infrastructure Asset Coo rdinator
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Phone: (651) 385-3674
E-mail: swppp@ci.red-wing.mn.us

BMP Summary Sheet

MS4 Name: City of Red Wing

Permit Condition: XI. Appendix C. Part A and/or Part B.

Unique BMP Identification Number: IX. A. and/or B.

BMP Title: Discharge to Waters with Prohibited or Restricted Discharge Assessment

BMP Description:

As an MS4 located within the watershed that discharges to ORVW waters, The City of Red Wing will submit an assessment and other documentation required in Appendix C of Permit MNR040000. Because the magority of the land area of the City of Red Wing in the Cannon River Watershed is not yet developed , it will be necessary to develop ordinances which require sufficient BMPs designed to avoid new or expanded discharge. It should be noted that Red Wing's Zoning Code Ordinance Division 57: Storm Water Management Regulations already regulates "land -disturbing or development activities that would have an ad verse potentially irreversible impact on water quality, stormwater runoff rates/ volumes, and unique and fragile environmentally -sensitive lands, waterways, and wildlife," This ordinance (57-050.C) also states that in the case of the "Cannon River Scenic and /or Recreational Districts: Stricter standards apply to proposed projects located within these districts (see Division 53 of this ordinance). This Stormwater Management Ordinance does not address the requirements for such projects." Zoning codes ordinan ce Division: 53 Cannon River Management Overlay District, is a comprehensive 17 page ordinance specifically drafted to "conserve and protect the natural scenic values and resources of the Cannon River and to maintain a high standard of environmental quality."While both of these ordinances address stormwater pollution prevention, Division 53 only applies to property located within the boundaries of the overlay district which roughly parallels the Cannon River. The remainder of the watershed which lies within city limits is addressed by Zoning Code Division57, Which will need to be amended to conform with permit language which seeks to avoid new and expanded discharges, Ordinance language will site proposed methods to eliminate any new or expanded discharges u sing approved alternatives. The City of Red Wing will submit current mapping data which includes Cannon River Watershed delineation and stormwater infrastructure including pondage. It should be noted that due to extensive undeveloped land, stormwater runs off to undisturbed wetlands where it is infiltrated. Residential and commercial development since 1998 has included wet and dry pondage. Also, storm water confluence with Minnesota State Highway 61 road drainage appears to be within the right of way jurisdiction of the Minnesota D.O.T.Since 1988, there have been six developments in the Cannon River Watershed that require assessment. All four residential developments meet expanded discharge requirements. Ponds are used as BMPs to mitigate runoff pollution. The Red Wing Business Park was started in 1985 with initial runoff directed to existing natural ravines. The Burnside Elementary School, built in 1993 , also drained some stormwater to one of the same natural ravines.

Activity Implementation Plan:

The City of Red Wing will submit a prescribed BMP to address: Discharges to Waters with Prohibited or Restricted Discharges Assessment. This submission will include information about the Cannon River Watershed and the City of Red Wing's efforts to preserve the ORVW's water quality. Submissions will include delineated maps and woning ordinances. It should be noted that Red

Wing's City Council is in the process of trying to establish a storm water utility with the hope of funding an updated watershed management plan. That plan could address existing discharge issues like total amount of infiltration into wetlands. That plan could also be most beneficia l in addressing future changes in the watershed, especially projected changes through 2020. The City of Red Wing will ammend its SWPPP to include the Cannon River ORVW. That amendment will be explained at the annual meeting and then approved by City Coun cil as a matter of record for the Annual Report cue on June 30th 2009. Because Red Wing will need to amend its Zoning Ordinance Division 57 to comply with prohibitionsof future discharges to the Cannon River Watershed, an ordinance amendment will need to be presented to the Planning Commission which would then have to be approved by City Council.

Timeline/Implementation Schedule:

The submission of this BMP Summary Sheet along with documentation about the Cannon River ORVW Watershed serves as the first step in meeting the requirements of section IX. Appendix C. Part B. of the MS4 General Permit. Pending action of the City Council in 2009 to establish a storm water utility, and thereby provide funding for an updated Watershed Management Plan, an evaluation of hydrology, land use, and future discharges could be accomplished. In the meantime, the City of Red Wing will rely on existing information to remain compliant with ORVW prohibitions. By June 30, 2009, the City of Red Wing will amend its SWPPP and its zo ning ordinance Division 57 in order to reflect prohibitions against expanded discharges to the Cannon River ORVW.
By June 30, 2009 , the City of Red Wing will submit as an attachment to the SWPPP Annual Report to the MPCA, the assessment, response to any p ublic comments, plan for ongoing work elements, and any proposed changes to the SWPPP that have heen deemed necessary through this assessment process.

Specific Component and Notes:
Cover Letter
Cannon River Watershed Management Report
Cannon River Watershed Maps
City of Red Wing Zoning Ordinances 53 and 57-050C.
Updating an ordinance requires approval by the City Clerk, the Planning Commission, and the City Council.

Responsible Party for this BMP:

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