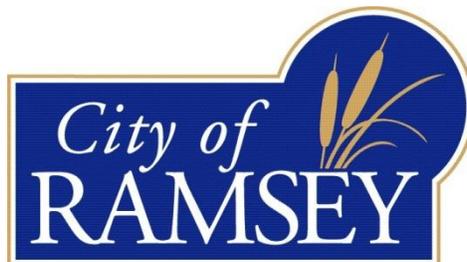


City of Ramsey, Minnesota

# 2006 Stormwater Pollution Prevention Program



Prepared

~~May 31, 2006~~

Revised February 4, 2009

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# Executive Summary

The City of Ramsey is required to apply for coverage under the National Pollutant Discharge Elimination System Phase II/ State Disposal System program as administered by the US Environmental Protection Agency and the Minnesota Pollution Control Agency. This document outlines the steps Ramsey will take during the next permit cycle of 5 years to reduce stormwater pollution and is commonly referred to as a Stormwater Pollution Prevention Plan (SWPPP).

The SWPPP must address six (6) major areas:

Public Education and Outreach

Public Participation/ Involvement

Illicit Discharge Detection and Elimination

Construction Site Stormwater Runoff Control

Post-Construction Stormwater Management in New Development and Redevelopment

Pollution Prevention/ Good Housekeeping

Detailed sheets have been developed addressing sub-topics in each of these areas. Goals and timelines have been established for each sheet. The City will prepare an annual report summarizing the activities for the past year. The report will be available for review at the annual meeting held for review of the SWPPP. Comments received will be evaluated and incorporated into the SWPPP and annual report as appropriate.

The City of Ramsey currently has systems in place for reviewing new construction plans and requiring installation of erosion control measures prior to construction. This includes notifications and corrective measures for sites found to be out of compliance with the requirements. The City participates in the Environmental Expo held every spring. Information is distributed on methods to reduce stormwater pollution. The new resident packet contains useful information on recycling, lawn care and is distributed to all who purchase new homes in the city.

The City has inspected all known outfalls where stormwater leaves the boundaries of the city annually since 2003. These inspections were during dry weather and flows were not observed during the inspections. This is a good indicator that sanitary sewer lines are not connected to the storm sewer system. The inspection program has been expanded to include inspecting 20% of the ponds annually.

The city will be improving the website content and establishing a collection of educational materials for various audiences as part of this new permit.

The City of Ramsey has programs in place for reducing stormwater pollution and this SWPPP is a guide for additional measures that will be implemented over the next 5 years to further improve the stormwater quality in Ramsey. The City has adopted a stormwater pollution control ordinance to guide plan reviews for new development and construction of those new developments.

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# Introduction

The City of Ramsey is bordered by two natural flowing rivers, the Mississippi River and the Rum River and is therefore committed to protecting the quality of water and limiting the impacts of new developments on our watershed. Ramsey is required to apply for a permit from the National Pollutant Discharge and Elimination System Phase II/ State Disposal System program as administered by the United States Environmental Protection Agency (EPA) and the Minnesota Pollution Control Agency (MPCA). The permit requires preparation of a Stormwater Pollution Prevention Plan (SWPPP). This document is the SWPPP for Ramsey Minnesota. Portions of this document were prepared for the 2003 permit application. The 2003 permit were challenged in court and modifications were required as a result of the challenge.

## Self-Assessment Description

Before beginning to select BMPs and Measurable Goals, city staff undertook a self-assessment of our city's stormwater system. This was an evaluation of our city's conditions, needs, and practices. The objective of this process was to provide a knowledge base upon which to structure our SWPPP in order to meet the Permit's Maximum Extent Practicable standard.

The self-assessment was guided by materials included in the League of Minnesota Cities NPDES Phase II MS4 Guide Plan. This self-assessment process had two major components:

- The first workshop session organized as part of the LMC Guide Plan project included a self-assessment component led by Pat Collins of AMEC Earth & Environmental. This included:
  - discussion of physical and socio-political watershed and organizational conditions and issues that should guide the selection of BMPs and Measurable Goals
  - review of two examples of cities with different characteristics to demonstrate how local conditions should shape the selection of BMPs and Measurable Goals
  - a series of exercises in which our city staff considered the local conditions for our community and how they should guide our selection of BMPs and Measurable Goals.
- After the workshop session, we worked with the NPDES Phase II Program Assessment Questionnaire that was included in the LMC Guide Plan notebook. This was a twelve-page document with a comprehensive list of questions that we used to guide us through a self-assessment activity, including consideration of a wide range of stormwater approaches.

The results of this process include:

- a set of understandings among city staff
- written notes of the self assessment meeting
- completed Program Assessment Questionnaires from key personnel

Together, these items represent our knowledge of our local stormwater system and the conditions that shape it. We have used the results of this self-assessment process to guide our selection of BMPs and Measurable Goals that make up the SWPPP for our Permit Application.

Based on this self-assessment process, our staff has considered the following factors in order to meet the Maximum Extent Practicable standard set forth in the Permit:

- sources of pollutants
- potentially polluting activities being conducted in the watershed
- sensitivity of receiving waters

- uses of receiving waters
- specific local concerns
- the size of our community
- climate
- implementation schedules
- current ability to finance stormwater programs
- hydrology
- geology
- capacity to perform operation & maintenance
- local land uses
- rate and type of development
- characteristics of our watershed
- organizational characteristics of our city.

In addition to the self-assessment process discussed above, our staff has also considered the following non-stormwater discharges to determine whether they should be identified as significant contributors of pollutants to our stormwater system:

- 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
- street wash water
- discharge or flows from fire fighting activities.

During the self-assessment process, the City of Ramsey did not find any of the additional referenced non-stormwater discharges listed above to be significant contributors of pollutants to the stormwater system.

The Rum River and Mississippi River are classified as Outstanding Resource Value Waters and new discharges are prohibited or restricted. The rivers and Rogers Lake in the northeast corner of the City are classified as impaired waters, discharges will be required to meet Total Maximum Daily Load targets as they are established. An Impaired Waters BMP Summary sheet and a Protected Discharge Assessment BMP Summary Sheet have been added after the Minimum Control Measure 6 sheets.

## Minimum Control Measure Summary

The Revised Permit requires developing goals in six (6) areas which are: Public Education and Outreach, Public Participation/ Involvement, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post Construction Stormwater Management in New Construction and Redevelopment and Pollution Prevention/ Good Housekeeping. This document contains the 34 Best Management Practice Summary Sheets (BMPs) required for a complete permit application. The Minimum control measures are as follows:

### Public Education and Outreach

Key to Unique BMP ID Numbers	Required BMP Title	Permit Reference
1a-1	Distribute Educational Materials	V.G.1.a
1b-1	Implement an Education Program	V.G.1.b
1c-1	Education Program: Public Education and Outreach	V.G.1.c
1c-2	Education Program: Public Participation	V.G.1.c
1c-3	Education Program: Illicit Discharge Detection and Elimination	V.G.1.c
1c-4	Education Program: Construction Site Run-off Control	V.G.1.c
1c-5	Education Program: Post-Construction Stormwater Management in New Development and Redevelopment	V.G.1.c
1c-6	Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations	V.G.1.c
1d-1	Coordination of Education Program	V.G.1.d
1e-1	Annual Public Meeting	V.G.1.e

### Public Participation/ Involvement

Key to Unique BMP ID Numbers	Required BMP Title	Permit Reference
2a-1	Comply with Public Notice Requirements	V.G.2.a
2b-1	Solicit Public Input and opinion on the Adequacy of the SWPPP	V.G.2.b
2c-1	Consider Public Input	V.G.2.c

### Illicit Discharge Detection and Elimination

Key to Unique BMP ID Numbers	Required BMP Title	Permit Reference
3a-1	Storm Sewer System Map	V.G.3.a
3b-1	Regulatory Control Program	V.G.3.b
3c-1	Illicit Discharge Detection and Elimination Plan	V.G.3.c
3d-1	Public and Employee Illicit Discharge Information Program	V.G.3.d
3e-1	Identification of Non Stormwater Discharges and Flows	V.G.3.e

## Construction Site Stormwater Runoff Control

<b>Key to Unique BMP ID Numbers</b>	<b>Required BMP Title</b>	<b>Permit Reference</b>
4a-1	Ordinance or other Regulatory Mechanism	<b>V.G.4.a</b>
4b-1	Construction Site Implementation of Erosion and Sediment Control BMPs	<b>V.G.4.b</b>
4c-1	Waste Controls for Construction Site Operators	<b>V.G.4.c</b>
4d-1	Procedure for Site Plan Review	<b>V.G.4.d</b>
4e-1	Establishment of Procedures for the Receipt and Consideration of Reports of Stormwater Noncompliance	<b>V.G.4.e</b>
4f-1	Establishment of Procedures for Site Inspections and Enforcement	<b>V.G.4.f</b>

## Post-Construction Stormwater Management In New Development And Redevelopment

<b>Key to Unique BMP ID Numbers</b>	<b>Required BMP Title</b>	<b>Permit Reference</b>
5a-1	Development and Implementation of Structural and/or Non-structural BMPs	<b>V.G.5.a</b>
5b-1	Regulatory Mechanism to Address Post Construction Runoff from New Development and Redevelopment	<b>V.G.5.b</b>
5c-1	Long-term Operation and Maintenance of BMPs	<b>V.G.5.c</b>
5d-1	Maintenance of Surface Water Protection Area	<b>IX.H</b>

## Pollution Prevention/Good Housekeeping

<b>Key to Unique BMP ID Numbers</b>	<b>Required BMP Title</b>	<b>Permit Reference</b>
6a-1	Municipal Operations and Maintenance Program	<b>V.G.6.a</b>
6a-2	Street Sweeping**	
6b-2	Annual Inspection of All Structural Pollution Control Devices	<b>V.G.6.b.2</b>
6b-3	Inspection of a Minimum of 20 percent of the MS4 Outfalls, Sediment Basins and Ponds Each Year on a Rotating Basis	<b>V.G.6.b.3</b>
6b-4	Annual Inspection of All Exposed Stockpile, Storage and Material Handling Areas	<b>V.G.6.b.4</b>
6b-5	Inspection Follow-up Including the Determination of Whether Repair, Replacement, or Maintenance Measures are Necessary and the Implementation of the Corrective Measures	<b>V.G.6.b.5</b>
6b-6	Record Reporting and Retention of all Inspections and Responses to the Inspections	<b>V.G.6.b.6</b>
6b-7	Evaluation of Inspection Frequency	<b>V.G.6.b.7</b>

## Summary of Ramsey Program

The City of Ramsey reviews all new subdivision plans at least 3 times prior to authorizing construction. The plan reviews look at stormwater ponding, rate control and erosion control. The plans for all developments over 1 acre are also reviewed by the Lower Rum River Water Management Organization (LRRWMO). The City has aligned its requirements with those of the LRRWMO to provide consistent guidelines for developers.

The City of Ramsey currently has a system in-place for issuing notices to contractors that do not properly maintain erosion control measures. The City adopted a Stormwater Pollution Control Ordinance which went into effect January 2007. It incorporated the conditions spelled out in the model ordinance provided by the MPCA. The city sweeps all streets in the spring to collect sand and prevent it from washing into the storm sewer system. The city also sweeps all streets in the fall to collect leaves. All outfalls where water leaves the MS4 boundaries have been inspected annually since 2003. These inspections were all during dry weather and discharges have not been detected during these inspections. The database of stormwater structures has been created listing the outfalls, ponds and structural water quality treatment structures. This list is used for scheduling inspections and tracking of repairs performed on the system.

The city will be improving the website content and establishing a collection of educational materials for various audiences as part of this new permit.

The City of Ramsey has programs in place for reducing stormwater pollution and this SWPPP is a guide for additional measures that will be implemented over the next 5 years to further improve the stormwater quality in Ramsey.

Ramsey is bounded by the Rum and Mississippi Rivers which are classified as restricted discharge waters. The area adjacent to the Rum River is mostly developed; redevelopment is not anticipated in the near future. The majority of the development is large lot single family residences with wells and septic systems. The bank area between the houses and the water's edge is natural vegetation; pipes have been pushed from the top to the bottom of the bank to provide an outlet for stormwater. Most of the pipes connect to vegetated ditches that provide drainage for the roadway areas. There is one development with urban lots served by municipal sewer, water and storm sewer. One development was approved within the last 16 years; the remainder were constructed previous to that time. There are ponding areas immediately adjacent to the Rum River Outfalls. They are inspected when the outfalls are inspected each year. A water quality treatment structure was added to upstream of an outfall to the Rum River when drainage improvements were required in the area. This is the proposed course of action for adding additional water quality treatment structures along the Rum River.

The Mississippi River is also bounded by a combination of large lot single family residences and urban lots. The recent urban lots were developed with ponds to provide water quality treatment. The older developments may be retrofitted with water quality treatment structures when other work is required in the area. A county park occupies a significant portion of the undeveloped area along the Mississippi River, minimal development is proposed for this park. There are several large tracts under consideration by developers at this time. The schedule for development has not been established; however, these new developments will be within 2000 feet of the river and will require additional storm water measures under the Construction Permit Program prior to being approved.

The storm drainage for the City ultimately reaches the Rum or Mississippi Rivers except for some land locked basins. The land locked basins are connected to areas that drain to the rivers when feasibility studies indicate a benefit will be provided by the improvement. The rivers are the only available

outlets from stormwater discharge from the City of Ramsey and are listed as restricted discharges. The City will be incorporating volume reduction strategies into the Post Construction Stormwater Ordinance.

The 2008 Comprehensive report summarizes the land uses and projected changes through 2030. The data is tabulated below:

Land Use Classification	% City Land Area 2008	% City Land Area 2030	% Change
Agricultural/ Vacant	17		-*
Rural Developing		35	-*
Commercial/ Industrial/ Multifamily	6	10	4
Single Family Residential	38	15	-*
Park/ Quasi Public	7	9	2
Right-of-Way (State, County, Railroad, City)	11	11	0
Water/ Wetland	21	21	0

-\* Classifications changed

The 2030 projections show a combination and re-division of the present Agricultural/ Vacant and Single Family Residential categories into Rural Developing and Single Family Residential categories. A slight increase is projected for the Commercial/ Industrial/ Multifamily. The Parks and Right-of-Way will also increase as a result of the projected development.

All new developments are reviewed by the City and the LRRWMO prior to construction and must limit the rate of discharge from the site to pre-development rates and provide water quality treatment. Developments within the corridors adjacent to the rivers must meet density and open space standards along with preserving natural vegetation. The City adopted an updated Surface Water Management Plan in 2008 which will require all future developments to limit the rate of stormwater discharge to 75% of the existing discharge. This will be combined with the new Post Construction Discharge ordinance to address new or expanded discharges to the Rum and Mississippi rivers. Prohibiting all new stormwater discharges will deprive landowners of full use of their property and is contrary to the goals of the Metropolitan Council and the City of Ramsey Comprehensive Plan. The City of Ramsey is included in the 2030 Guide Plan for the Metropolitan Council which is looking at managing growth for the region. The new ordinance will be drafted to accommodate the required growth and limit discharges.

The City has modified construction plans to protect endangered species. The state list of endangered and threatened species is reviewed when developments are proposed near potential habitat. The City has a wetland buffer ordinance which also requires evaluation of potential impacts to endangered species habitat. Projects adjacent to potential habitat will be reviewed by the LRRWMO and with other agencies as appropriate.

The City is not aware of any properties eligible for listing in the National Register of Historic Places or Archeological sites. Environmental Assessment Worksheets have been completed for numerous projects in the city. These reports have not identified Historic or Archeological sites within the boundaries of the city. We will continue to review all proposals for development and will require additional protection measures be implemented if sites of significance are identified in or adjacent to proposed developments.

The Drinking Water Supply Management Area has been mapped by the Minnesota Department of Health. The map is included in Appendix 2. The mapped area includes existing developments and the Ramsey Town Center Project. The Ramsey Town Center project utilizes regional ponds for stormwater rate control with additional water quality treatment practices required on each site in the development. Several of the regional ponds will have liners to maintain water levels for aesthetic purposes. The liners will prevent stormwater from entering the groundwater in the Drinking Water Supply Management Area.

# Appendix 1

## Best Management Practice Summary Sheets

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 1-Public Education And Outreach

**Unique BMP Identification Number:** 1a-1

<p><b>*BMP Title:</b> Distribute Educational Materials</p>
<p><b>*BMP Description:</b></p> <p>The City of Ramsey will distribute educational materials to the general public including City residents, homeowners, business owners and school children.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: The specific materials and audiences are described in 1c-1 – 1c-6.</p>
<p><b>*Measurable Goals:</b></p> <p>The effectiveness of the BMP will be measured by :</p> <ul style="list-style-type: none"><li>• recording the number of calls received in response to the educational materials</li><li>• recording the number of stormwater management assistance requests</li><li>• conduct period surveys to assess the implementation of methods</li></ul>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>In the 2009 the City will compile an inventory of existing educational materials and identify distribution formats beyond the periodic City news letter. On an ongoing basis the city shall publish materials a minimum of four times in the City periodic newsletter, The Ramsey Resident.</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

*\*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 Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-1

<b>*BMP Title:</b> Education Program: Public Education and Outreach
<b>*Audience(s) Involved:</b> General public including city residents, homeowners, business owners and school students (K-12)
<b>*Educational Goals for Each Audience:</b> Increase public awareness and understanding of stormwater runoff and pollution potentials with in the community. Demonstrate correlation between stormwater runoff and water quality.
<b>*Activities Used to Reach Educational Goals:</b> 1. Stormwater Hotline 2. Website pages with stormwater information and links 3. Participate in annual Environmental Expo 4. Place articles in the Ramsey Resident regarding stormwater
<b>*Activity Implementation Plan:</b> Annually - prepare report on activities conducted. Ongoing -Stormwater Hotline Semiannually Update -Website pages with stormwater information and links Annually each spring - Participate in City sponsored Environmental Expo Quarterly - Place articles in the Ramsey Resident regarding stormwater
<b>*Performance Measures:</b> Record hotline calls received and response to the calls. Record website hits, number of participants at educational events, materials handed out and published articles.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-2

<b>*BMP Title:</b> Education Program: Public Participation
<b>*Audience(s) Involved:</b> General Public including City Residents, homeowners and business owners.
<b>*Educational Goals for Each Audience:</b> Increase public awareness and understanding of stormwater issues within the community. Inform and educate the public about the impacts of stormwater runoff on water quality and what they can do to actively protect local lakes and streams from polluted stormwater runoff. Inform and educate the public about how the City manages stormwater runoff through its' Stormwater Pollution Prevention Program (SWPPP).
<b>*Activities Used to Reach Educational Goals:</b> The City will report in the Ramsey Resident on activities related to managing stormwater and implementing the SWPPP. Topics for the newsletter may include information about the water quality of our City lakes and streams; events and programs the public can participate in to raise awareness about stormwater impacts; specific stormwater management activities the City is implementing; and the stormwater budget/ fees. Displays and handouts will be available at the annual Environmental Expo.
<b>*Activity Implementation Plan:</b> Annually – Publish articles on stormwater management and the SWPPP in the Ramsey Resident, update web content. Annually in spring – Participate in the Environmental Expo. Ongoing – provide pet waste bags in city parks
<b>*Performance Measures:</b> Survey citizens to determine if stormwater articles were read and if their knowledge of stormwater issues was increased. Track number of persons participating in Environmental Expo. City will evaluate effectiveness of Education program after 2 years and make adjustments as needed to make program more effective. Pet waste bag dispensers have been placed in parks. The public is using the bags, reducing the amount of waste before it can wash into ponds and wetlands.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-3

<b>*BMP Title:</b> Education Program: Illicit Discharge Detection and Elimination
<b>*Audience(s) Involved:</b> The City of Ramsey will distribute educational materials to the general public including City residents, homeowners, business owners and City Staff regarding Illicit Discharge Detection and Elimination.
<b>*Educational Goals for Each Audience:</b> Raise public awareness of illicit discharges within all groups. Educate city staff on ways to detect potential illicit discharges.
<b>*Activities Used to Reach Educational Goals:</b> Insert brochures in new resident packet. Provide information to business owners. Educate Public Works staff during monthly meetings. Provide display at environmental expo calling attention to potential for illicit discharge
<b>*Activity Implementation Plan:</b> Annually in December - Update brochures for new resident packet Annually in Spring – Provide display at the environmental expo Biannually in even numbered years - Send information to business owners Biannually in even numbered years - review keys to recognition of illicit discharges with Public Works staff
<b>*Performance Measures:</b> Record training dates Record contacts with business owners and training sessions Prepare summary report of environmental expo
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-4

<b>*BMP Title:</b> Education Program: Construction Site Run-off Control
<b>*Audience(s) Involved:</b> Developers(including their Engineers and Contractors) and City Staff
<b>*Educational Goals for Each Audience:</b> Reinforce the need for use and maintenance of erosion control BMP's on construction sites.
<b>*Activities Used to Reach Educational Goals:</b> Publish Ramsey BMP construction activity guide Comment on erosion control practices on site plan reviews Review erosion control issues at preconstruction conferences with contractors
<b>*Activity Implementation Plan:</b> 2009 - The codification of the BMPs will take place as noted in section 5 of City Code. Ongoing as site plans, building permits and construction projects occur.
<b>*Performance Measures:</b> Record number of site plan, building permits and construction projects reviews.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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## BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-5

<b>*BMP Title:</b> Education Program: Post-Construction Stormwater Management in New Development and Redevelopment
<b>*Audience(s) Involved:</b> The City of Ramsey will distribute educational materials to the general public including City residents, homeowners, business owners and City Staff regarding Post-Construction Stormwater Management in New Development and Redevelopment.
<b>*Educational Goals for Each Audience:</b> Increase public awareness and understanding of stormwater runoff and pollution potentials with in the community. Demonstrate correlation between stormwater runoff and water quality.
<b>*Activities Used to Reach Educational Goals:</b> The materials developed in 1c-1 will be used in this BMP also.
<b>*Activity Implementation Plan:</b> The schedule will be the same as 1c-1.
<b>*Performance Measures:</b> See section 1c-1.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-6

<b>*BMP Title:</b> Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations
<b>*Audience(s) Involved:</b> City Public Works Staff
<b>*Educational Goals for Each Audience:</b> Review need for an increased awareness of Good Housekeeping practices in municipal operations within the Public Works Department.
<b>*Activities Used to Reach Educational Goals:</b> Brochures, handouts and training sessions.
<b>*Activity Implementation Plan:</b> Annually – at one of the monthly public works all staff meetings.
<b>*Performance Measures:</b> Annually – report on training session conducted
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1e-1

<b>*BMP Title:</b> Annual Public Meeting
<b>*BMP Description:</b> Hold annual public meeting. Meeting will be scheduled to allow time for preparation of annual report for previous calendar year. Annual report will be available at the meeting for review. Comments received will be reviewed and incorporated in the annual report as appropriate.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Advertise and hold annual meeting.
<b>*Timeline/Implementation Schedule:</b> Annually – hold annual meeting.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

*\*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 Ramsey

**Minimum Control Measure:** 2-Public Participation/ Involvement

**Unique BMP Identification Number:** 2a-1

<p><b>*BMP Title:</b> Comply with Public Notice Requirements</p>
<p><b>*BMP Description:</b></p> <p>The annual meeting will be advertised at least 30 days in advance. The paper used for all official notices of the city will be used. The meeting date will also be posted at City Hall and on the website.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Record notice of Publication of notice in annual report.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Annually- publish meeting notice.</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us</p>

*\*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 Ramsey

**Minimum Control Measure:** 2-PUBLIC PARTICIPATION/INVOLVEMENT

**Unique BMP Identification Number:** 2b-1

<p><b>*BMP Title:</b> Solicit Public Input and opinion on the Adequacy of the SWPPP</p>
<p><b>*BMP Description:</b></p> <p>The SWPPP will be available at City Hall in the Engineering Department and on the Website. Instructions for providing written comments will be available. Contact information is provided to accommodate written and oral comment.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Recording the number of responses and comments on the SWWPPP Record attendance at the annual meeting</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Annually – Hold public meeting Annually- Submit comments provided by the public in the annual report..</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 3-Illicit Discharge Detection And Elimination

**Unique BMP Identification Number:** 3a-1

<b>*BMP Title:</b> Storm Sewer System Map
<b>*BMP Description:</b> The City of Ramsey will develop a Storm Sewer System Map that will assist us in determining the presence of Illicit Discharges. The map will also aid in inspection of the storm sewer system and to prioritize the annual maintenance required to optimize the use of the storm sewer system to reduce pollution in discharges to the waters of the State.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Completed Storm Sewer System Map Identification of needed maintenance
<b>*Timeline/Implementation Schedule:</b> December 2006 – Compilation of As-built information December 2007 – Completion of Storm Sewer System Map June 30, 2008 Storm Sewer System Map Completed Annually – Update map with new projects and reconstruction
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3b-1

<p><b>*BMP Title:</b> Regulatory Control Program</p>
<p><b>*BMP Description:</b></p> <p>The State of Minnesota has regulations prohibiting the connection of non-stormwater discharges into the storm sewer system. The City has adopted an Individual Sewage Treatment System Ordinance. The city will adopt an Illicit Discharge Detection and Elimination Ordinance.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Completed review of existing regulations Adopt new ordinance</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>December 2006 - Completed draft ordinance December 2007 - Completed ordinance</p>
<p><b>Specific Components and Notes:</b></p> <p>The city has inspected all known outfalls from the MS4 to the Rum and Mississippi Rivers annually since 2003. These were all dry weather inspections and flow was not observed in the pipes during these inspections.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us</p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3c-1

<b>*BMP Title:</b> Illicit Discharge Detection and Elimination Plan
<b>*BMP Description:</b> The City of Ramsey currently offers a recycling program to the residents. The program includes curbside pickups and a semi-annual recycling day for electronics and larger items not accepted in the curbside program. The City of Ramsey has been recognized by Anoka County for exceeding participation goals in the recycling program.  The City has had a mandatory septic tank pumping ordinance in place since 2005.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Completed Recycling days Quantity of materials recovered from solid waste stream Number of septic systems reported pumped
<b>*Timeline/Implementation Schedule:</b> Annually – report number of septic systems pumped Annually – inspect outfalls and act on dry weather flows observed
<b>Specific Components and Notes:</b> Curbside recycling "Recycling Day" Maintenance vehicle liquid recycling The city has inspected all known outfalls from the MS4 to the Rum and Mississippi Rivers annually since 2003. These were all dry weather inspections and flow was not observed in the pipes during these inspections.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3d-1

<b>*BMP Title:</b> Public and Employee Illicit Discharge Information Program
<b>*BMP Description:</b> Education of Employees and Public on Illicit Discharge Program  Ramsey will develop a strategy to inform City Employees, property owners, local businesses and the public about the hazards associated with illicit discharges and improper waste disposal.          Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> City staff trained in Illicit Discharge Recognition. Distribution of educational materials on Illicit Discharge Detection and Elimination. Summarize recycling volume in annual report Include summary of disseminated educational material with annual report
<b>*Timeline/Implementation Schedule:</b> Annually review shop procedures regarding vehicle fluids June 2009 compile resources for Illicit Discharge Recognition training Program January 2010 Complete staff Illicit Discharge Recognition Training Annually IDDE refresher training, disseminate literature
<b>Specific Components and Notes:</b> Use "Rubber Ducky" or similar public service announcements via local cable Review maintenance vehicle fluid procedures at Employee meetings Distribute recycling information to residents through newsletter, website and Environmental Expo
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3e-1

<p><b>*BMP Title:</b> Identification of Non Stormwater Discharges and Flows</p>
<p><b>*BMP Description:</b></p> <p>The City is in the process of indentifying drainage areas and has completed a comprehensive stormwater model for all drainage areas in the City. The model will be used in conjunction with the Storm Sewer Map and field observations to determine areas where illicit discharges may exist.</p> <p>The City will develop a process to determine whether any of the following categories of non-stormwater discharges or flows are significant contributors of pollutants to our MS4:</p> <p>Waterline flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated groundwater 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, street wash water, and discharges or flows from fire fighting activities.</p> <p>For any non-stormwater discharges or flows which the City finds to be a significant contributor of pollutants to the MS4 the City will develop an action plan to evaluate and address the impact the discharge is having on stormwater quality.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: MCM 3.C</p>
<p><b>*Measurable Goals:</b></p> <p>Completion of the study Develop a process to investigate and evaluate the potential for the non-stormwater discharges identified above to be significant contributors of pollutants to our MS4. Conduct investigation and evaluation of non-stormwater discharges and flows. Develop an action plan for flows identified as significant contributors of pollutants to our MS4. Implement action plan for significant non-stormwater discharges and flows.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>May 2007 – Selected Consultant to prepare comprehensive stormwater study October 2008 – City Council accepted comprehensive stormwater study August 2009 Complete ordinance modifications required in comprehensive stormwater study.</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us</p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-Construction Site Stormwater Runoff Control

**Unique BMP Identification Number:** 4a-1

<b>*BMP Title:</b> Ordinance or other Regulatory Mechanism
<b>*BMP Description:</b> Construction Site Stormwater Runoff Control and Enforcement is addressed in section 9.27 of City Code and went into effect on January 2, 2007.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Adoption of Ordinance
<b>*Timeline/Implementation Schedule:</b> June 2006 Adopt Ordinance Ongoing - Work with builders to raise awareness of ordinance and enforce provisions of ordinance.
<b>Specific Components and Notes:</b> Required Components in ordinance: <ul style="list-style-type: none"><li>• Submittal of Erosion and Sediment Control plans by site Operators to MS4</li><li>• Site Plan Review and Approval before construction</li><li>• Site operators maintain records on rainfall and inspections</li><li>• Regular inspections by site operators</li><li>• Specify requirements for dewatering or basin draining at site</li><li>• Specify requirements for BMP maintenance</li><li>• Specify controls for managing solid and hazardous wastes</li><li>• Specify requirements for permanent stormwater controls</li><li>• Specify requirements for perennial vegetative cover on exposed soils</li><li>• Compliance includes Verbal warnings, written warnings, stop-work orders, fines, forfeit of security bond money and/or withholding of certificate of occupancy.</li></ul>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4b-1

<p><b>*BMP Title:</b> Construction Site Implementation of Erosion and Sediment Control BMPs</p>
<p><b>*BMP Description:</b></p> <p>Installation and maintenance of erosion control measures on construction sites.</p> <p>The City of Ramsey will continue to utilize the MPCA “Protecting Water Quality in Urban Areas” manual, BWSR “MN Construction Site Erosion and Sediment Control” handbook, Met Council’s “Small Site BMP” manual and the MPCA “ Minnesota Stormwater Manual” for BMP selection. Developers are directed to these manuals for preparation of their plans. City review of all development plans requires incorporation of the BMPS presented in these manuals.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Ongoing – Review and comment on erosion control measures on construction plans in conjunction with Preliminary and Final Plat Approvals</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Ongoing - The city currently reviews and comments on erosion control measures and BMP's on all construction plans. The process continues in the field, our construction observers monitor all construction sites and issue repair notices to sites where BMP's are not controlling erosion.</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4c-1

<b>*BMP Title:</b> Waste Controls for Construction Site Operators
<b>*BMP Description:</b> City Code requires dumpsters or debris containment areas on all construction sites. Inspections can be withheld if debris is not picked up.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Minimize complaints from residents about construction debris.
<b>*Timeline/Implementation Schedule:</b> Ongoing – review construction site waste controls, enforce existing regulations.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4d-1

<b>*BMP Title:</b> Procedure for Site Plan Review
<b>*BMP Description:</b> <p>The City development approval process includes three (3) phases, Sketch Plan, Preliminary Plat and Final Plat for subdivision of land. Site plans have 2 phases Preliminary Site plan and Final Site Plan. Staff reviews the plans at each phase and provides a review letter to the development team. Sites over 1 acre also require a permit from the Lower Rum River Water Management Organization (LRRWMO). The reviews from both agencies address erosion control, temporary sedimentation basins and final stormwater ponding requirements. The city has established a system of notices for construction site erosion control problems. The notices are provided to the contractor specifying the work to be done and the timeframe to complete the work. The system includes means for the City to perform the work if the contractor fails to act.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<b>*Measurable Goals:</b> Continue plan review; implement changes in process if necessary.
<b>*Timeline/Implementation Schedule:</b> Ongoing – review development plans, require implementation of appropriate Construction Site BMPs for controlling stormwater runoff.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4e-1

<b>*BMP Title:</b> Establishment of Procedures for the Receipt and Consideration of Reports of Stormwater Noncompliance
<b>*BMP Description:</b> The current system of erosion control notices addresses Stormwater Noncompliance. A Stormwater Hotline and website will be added to provide additional avenues for reporting stormwater violations. Currently, calls received on violations are routed to field staff for observation of the condition and preparation of a notice as necessary.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Record all calls received including corrective measures performed. Record all notices issued for stormwater noncompliance.
<b>*Timeline/Implementation Schedule:</b> December 2006 – Implement Hotline and Website. Ongoing - Observe construction sites and issue notices as needed; receive and follow-up on calls and web postings regarding stormwater noncompliance.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4f-1

<b>*BMP Title:</b> Establishment of Procedures for Site Inspections and Enforcement
<b>*BMP Description:</b> Inspect construction sites for stormwater noncompliance. Issue notices for corrective actions, follow-up to ensure compliance. The City has established a system of notices that are issued for erosion control non-compliance as noted in 4d-1.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Log of completed inspections and notices issued.
<b>*Timeline/Implementation Schedule:</b> Ongoing – Continue site inspections, issuing notices and following up on notices.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** **5-Post-Construction Stormwater Management In New Development And Redevelopment**

**Unique BMP Identification Number:** 5a-1

<p><b>*BMP Title:</b> Development and Implementation of Structural and/or Non-structural BMPs</p>
<p><b>*BMP Description:</b></p> <p>The City of Ramsey will evaluate and select the BMPs necessary to achieve the balance between water quality and water quantity to ensure that the waters of the community are clean and residents and property are not damaged.</p> <p>The City of Ramsey has accepted innovative water quality treatment devices and will continue to evaluate new technologies for implementation in the City.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Selection of BMPs Publication of accepted BMPs Implementation of BMPs</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>December 2007 – BMPs codified December 2008 – BMPs published</p>
<p><b>Specific Components and Notes:</b></p> <p>Construction erosion and sedimentation control ordinance Evaluate and select BMPs</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN  
NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5b-1

<b>*BMP Title:</b> Regulatory Mechanism to Address Post Construction Runoff from New Development and Redevelopment
<b>*BMP Description:</b> Adoption of Post Construction Runoff Ordinance The City of Ramsey will have a Post Construction Runoff Ordinance in place within 6 months of extension of permit coverage.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Evaluation of existing ordinance Adoption of Ordinance
<b>*Timeline/Implementation Schedule:</b> December 2008 – Evaluation of Ordinance December 2009 – Adoption of Ordinance
<b>Specific Components and Notes:</b> The City of Ramsey currently operates under a Subdivision Ordinance. The City will evaluate the BMPs and existing ordinance to see that the provisions of the SWPPP are being accomplished and develop a Post Construction Ordinance in the 5 <sup>th</sup> year of the permit cycle.
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5c-1

<p><b>*BMP Title:</b> Long-term Operation and Maintenance of BMPs</p>
<p><b>*BMP Description:</b></p> <p>The City of Ramsey will monitor and maintain BMPs installed in the City.</p> <p>The City established a stormwater utility in 2000. The fund has been used to fund needed storm sewer improvements.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Update storm sewer system database with location of Structural BMPs. Annual report on BMP maintenance.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>December 2007 – Update storm sewer system database with Structural BMPs Annually – Prepare report on maintenance of structural BMPs</p>
<p><b>Specific Components and Notes:</b></p> <p><i>The City has included a vacuum truck in the 5 year Capital Equipment Plan that can be used for maintenance of structural BMPs (oil/water separators, sump manholes, water quality treatment structures). Current needs are met by contracting for needed services.</i></p> <p>The public works department monitors and repairs the current BMPs.</p> <p>The City acquired a vacuum truck in December 2008 that will be used to maintain the structural BMP's.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5d-1

<p><b>*BMP Title:</b> Maintain Source Water Protection Area</p>
<p><b>*BMP Description:</b></p> <p>The map of the Source Water Protection Area (SWPA) is included in Appendix 2. The SWPA covers the Ramsey Town Center Area which is bounded on the east by Ramsey Boulevard, on the west by Armstrong Boulevard, on the South by the Burlington Northern Santa Fe Railroad. The northern boundary is approximately at 149<sup>th</sup> Avenue which is not continuous in this area. The Ramsey Town Center development included regional ponds for rate control, individual developments are required to provide additional treatment on site such as water quality treatment manholes, infiltration basins or pervious pavement. Each proposed BMP is evaluated as part of the plan review process. Several of the regional ponds are lined to maintain water levels and provide water features. These ponds are nearest to most of the municipal water supply wells. The remaining regional ponds are south of the municipal wells. The surface water aquifer flow is from north to south in this area.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Maintain ponds and BMPs in this area. Record work done. Continue requirement for additional on-site measures as Ramsey Town Center develops. Coordinate development reviews for this area with Well Head protection requirements to ensure protection of the Drinking Water Source Area.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Ongoing – Monitor and maintain ponds and BMPs</p>
<p><b>Specific Components and Notes:</b></p> <p>The City will incorporate the MDH Stormwater Guidance manual into plan reviews for projects in proximity to the wellhead protection areas.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 6-Pollution Prevention/ Good Housekeeping

**Unique BMP Identification Number:** 6a-1

<p><b>*BMP Title:</b> Municipal Operations and Maintenance Program</p>
<p><b>*BMP Description:</b></p> <p>The City of Ramsey will develop a collection of training materials that will be used to educate staff about pollution prevention and good housekeeping. These resources will come from applicable external sources, such as the EPA and may be supplemented with materials developed by our own organization.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Completed training materials Employee training</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>December – 2006 Evaluation of outside agency materials December – 2007 Compilation of training resource reference folder Annual updates</p>
<p><b>Specific Components and Notes:</b></p> <p>Equipment and Hazardous Material Storage Information Management System Employee training</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6a-2

<p><b>*BMP Title:</b> Street Sweeping**</p>
<p><b>*BMP Description:</b></p> <p>The City of Ramsey will semi-annually sweep the streets of the City to remove potential pollution materials before they can enter the storm sewer system.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b></p> <p>Number of lane miles swept</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Annually</p>
<p><b>Specific Components and Notes:</b></p> <p>Sweeping schedule Sweeper maintenance schedule.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: llinton@ci.ramsey.mn.us</p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-1

<b>*BMP Title:</b> Annual Inspection of All Structural Pollution Control Devices
<b>*BMP Description:</b> Inspection of Structural Pollution Control Devices – the locations of these devices are being compiled as part of the Storm Sewer Mapping program.  Location(s) in SWPPP of detailed information relating to this BMP:
<b>*Measurable Goals:</b> Prepare annual report on inspection results
<b>*Timeline/Implementation Schedule:</b> December 2007 – Completion of Storm Sewer mapping, database of devices and first round of inspections of Structural Pollution Control Devices.
<b>Specific Components and Notes:</b>
<b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-2

<p><b>*BMP Title:</b> Inspection of a Minimum of 20 percent of the MS4 Outfalls, Sediment Basins and Ponds Each Year on a Rotating Basis</p>
<p><b>*BMP Description:</b> Inspection of MS4 Outfalls, Sediment Basins and Ponds on a rotating basis, creating work orders for repairs as needed.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b> Inspection of 20 percent of the MS4 Outfalls, Sediment basins and Ponds Each Year Preparation of annual inspection report</p>
<p><b>*Timeline/Implementation Schedule:</b> December 2006 Complete Annual Inspection Annually thereafter – Complete Inspection</p>
<p><b>Specific Components and Notes:</b> The city has identified all of the MS4 outfalls and is still adding ponds to the storm sewer map.</p>
<p><b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1440 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

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# BMP Summary Sheet

**MS4 Name:** City of Ramsey

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-4

<p><b>*BMP Title:</b> Inspection Follow-up Including the Determination of Whether Repair, Replacement, or Maintenance Measures are Necessary and the Implementation of the Corrective Measures</p>
<p><b>*BMP Description:</b> Review Inspection notes and schedule appropriate repair, replacement and maintenance measures noted in inspection reports.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP:</p>
<p><b>*Measurable Goals:</b> Preparation of Inspection Follow-up Report</p>
<p><b>*Timeline/Implementation Schedule:</b> December 2006 Prepare report Annually thereafter prepare report</p>
<p><b>Specific Components and Notes:</b></p>
<p><b>*Responsible Party for this BMP:</b> Name: Leonard Linton Department: Engineering Phone: 763 427-1410 E-mail: <a href="mailto:llinton@ci.ramsey.mn.us">llinton@ci.ramsey.mn.us</a></p>

*\*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 Ramsey

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

**Unique BMP Identification Number:** IV.D – 1

<b>BMP Title:</b> Impaired Waters Review Process	
<b>BMP Description:</b> The City of Ramsey will review all discharges from our MS4 system to impaired waters, as defined by the current USEPA approved 303(d) list. Using the data from this review, we will determine if any changes to the existing stormwater system or BMPs are needed to minimize the impact of discharges from our MS4 to the impaired waters. If changes are needed the City of Ramsey will modify our SWPPP and submit these modifications to the MPCA with our current annual report.	
<b>Measurable Goals:</b>	
<ul style="list-style-type: none"> <li>▪ The City of Ramsey has determined that discharges from our MS4 system enter the following impaired waters, as defined by the current USEPA approved 303(d) list: (Water Body, Impairment)             <ul style="list-style-type: none"> <li>○ Mississippi River - Mercury in Fish Tissue, PCB in Fish Tissue</li> <li>○ Rogers Lake - Aquatic Recreation</li> <li>○ Rum River - Mercury in Fish Tissue</li> </ul> </li>   <li>▪ This determination was made using the Storm Sewer Map and citywide stormwater model. The mercury TMDL is being addressed state wide and it is assumed the discharge from Ramsey is not a source of mercury. The PCB in fish tissue TMDL plan has not been approved as of June 2008. The TMDL for Rogers Lake is not scheduled to start until 2015.</li> <li>▪ The Mississippi River and the Rum River are both classified as ORVW waters. A separate BMP Summary sheet has been prepared for Discharges to Waters with Prohibited or Restricted Discharges Assessment.</li> <li>▪ The watersheds, hydrology and impacts will be developed simultaneously for the Impaired Waters and Prohibited Discharge Waters.</li> </ul>	
<b>Timeline/Implementation Schedule:</b>	
December 2008	The City of Ramsey has identified the Rum River, Mississippi River and Rogers Lake as Impaired Waters receiving impacts from its MS4 discharges. A map has been prepared showing the Impaired Waters. A city wide stormwater model has been developed.
May 2009	The City will correlate the Impaired Waters watersheds with the stormwater model and will complete an evaluation of hydrology, land use and runoff. The City will evaluate changes to its storm sewer system to reduce the impacts to the Impaired Waters.
June 30 2009	The City of Ramsey will submit as an attachment to the Annual Report to the MPCA, the assessment, response to any public comments, plan for ongoing work elements and any proposed changes to the SWPPP that have been deemed necessary through this assessment process.
Ongoing	The City of Ramsey will review, evaluate and incorporate changes to the SWPPP as TMDL goals are established and published for these waters.

**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, City of Ramsey 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 an USEPA approved TMDL is finalized, the City of Ramsey intends to fully comply with 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: Leonard Linton

Department: Engineering

Phone: 763 427-1410

E-mail: [llinton@ci.ramsey.mn.us](mailto:llinton@ci.ramsey.mn.us)

## BMP Summary Sheet

**MS4 Name:** City of Ramsey

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

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

<b>*BMP Title:</b> Discharges to Waters with Prohibited or Restricted Discharges Assessment
<b>*BMP Description:</b> City of Ramsey Practices for discharges to ORVW waters
<ul style="list-style-type: none"><li>▪ This BMP includes establishment of a baseline of information– determine what processes are in place and what has already been accomplished that will help meet the permit conditions</li><li>▪ This BMP includes preparation of a written inventory of all stormwater discharges to the prohibited or restricted water(s) from within the jurisdictional boundaries of the MS4; compile necessary detail about the stormwater discharges to assess the impacts and alternatives</li><li>▪ Prepare a map that includes all the delineated sub-watershed(s) covering the MS4 that discharge to the ORVW, including the identified discharge points and routes to the ORVW waters that the MS4 discharge may impact.</li><li>▪ Evaluate past and future changes in the watersheds, projected out at least through the year 2020.</li><li>▪ Determine if a new or expanded discharge has or would occur and the magnitude of the potential changes.</li><li>▪ Evaluate alternatives to the discharge.</li><li>▪ Propose methods of eliminating the discharge.</li></ul>
<b>Activity Implementation Plan</b>
<p>As an MS4 located within a watershed that discharges to ORVW waters, City of Ramsey will submit an assessment and other documentation required in Appendix C of permit MNR040000 of which the following are major components:</p> <ol style="list-style-type: none"><li>1. The City of Ramsey topography generally slopes from northwest to southeast. The eastern boundary is the Rum River and the southern boundary is the Mississippi River. Both Rivers are designated ORVW's. Many of the developments in the City, especially along the rivers, were in place prior to designation of the rivers as ORVW's. Development has continued since the designation and the level of storm water treatment has increased with time. Development is anticipated to continue in the future.</li><li>2. The City has prepared a stormwater model for the entire city based on the existing storm sewer system. The model has identified areas that are landlocked and do not discharge to the rivers, excluding these areas all runoff reaches either the Rum River or the Mississippi River.</li><li>3. The City has prepared a map showing when plats were approved for determination of where discharges have occurred since the ORVW was designated. It appears that new or expanded discharges have occurred since the ORVW was designated. The City has prepared a stormwater model for the entire city that will be used in conjunction with the plat date map to evaluate changes to the discharges.</li><li>4. The City adopted an updated Surface Water Management Plan in 2008. The plan calls for all new developments to incorporate infiltration practices and to limit discharge rates to 75% of the existing runoff rates. The city will evaluate Low Impact Development, infiltration and volume reduction strategies and will adopt ordinances requiring the practices that are best suited for the unique conditions in Ramsey.</li></ol>
<b>*Timeline/Implementation Schedule:</b>

December 2008	The City of Ramsey has identified the Rum River and Mississippi River as ORVW waters receiving impacts from its MS4 discharges. A map has been prepared showing developments approved after the ORVWs were designated. A city wide stormwater model has been developed.
May 2009	The City will correlate the post ORVW development watersheds with the stormwater model and will complete an evaluation of hydrology, land use and runoff. The City will evaluate volume reduction strategies and will adopt an ordinance requiring the use of volume reduction strategies in future development/ redevelopment projects.
June 30 2009_	The City of Ramsey will submit as an attachment to the Annual Report to the MPCA, the assessment, response to any public comments, plan for ongoing work elements and any proposed changes to the SWPPP that have been deemed necessary through this assessment process.

**Specific Components and Notes:** Provide any clarification or other work related to this action here.

**\*Responsible Party for this BMP:**

Name: Leonard Linton

Department: Engineering

Phone: 763 427-1410

E-mail: [llinton@ci.ramsey.mn.us](mailto:llinton@ci.ramsey.mn.us)

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# Appendix 2

## MPCA/ DNR Exhibits

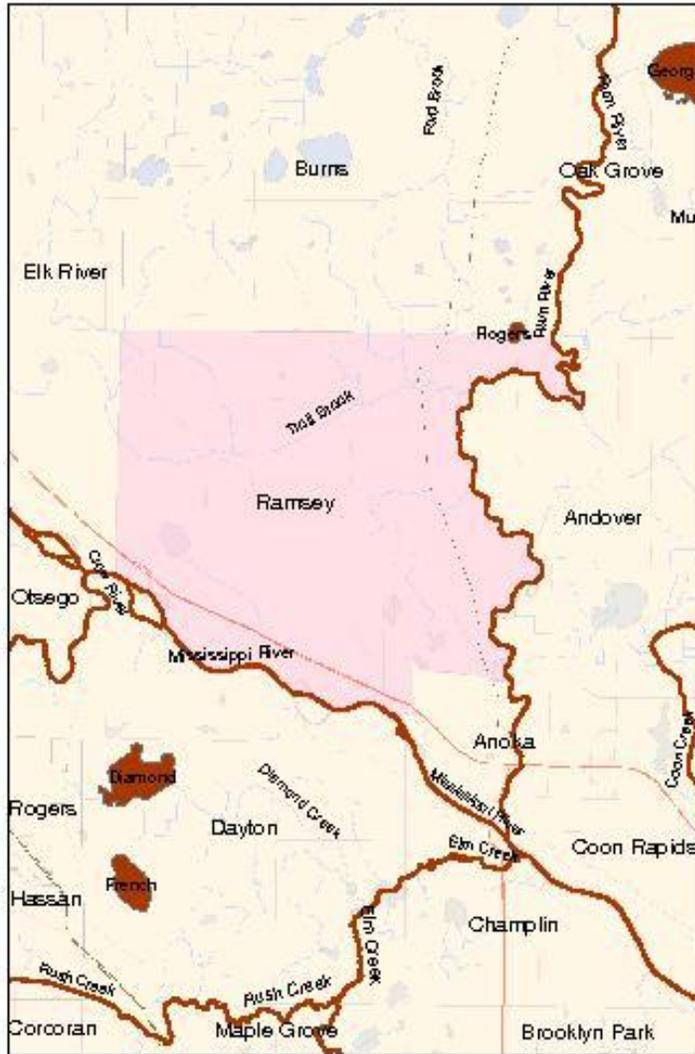
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ATTACHMENT  
LIST OF SPECIAL WATERS  
(MPCA)

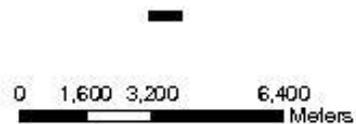
*Excerpt from MPCA Special Waters List*

County	Waterbody	Designation	Location
...			
Anoka	Mississippi River	Scenic/ Rec River	State Aid Highway 7 bridge in St. Cloud to NW Anoka City Limits
Anoka	Rum River	Scenic/ Rec River	Highway 27 Bridge in Onamia to Rice and Madison Streets in Anoka
....			

# Ramsey City MS4 Impaired Waters 8/1/2006



# Ramsey City MS4 Waters of Interest 8/1/2006



# Ramsey City MS4 DSW 8/1/2006

