

City of Rock Island

NPDES Storm Water Permit

Storm Water Management Program



ROCK ISLAND
ILLINOIS

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Prepared By



Table Of Contents

1.	Storm Water Management Program	1
1.1.	Public Education And Outreach	2
PE- 1	Public Information Programs	3
PE- 2	Storm Water Program Mascot.....	4
PE- 3	Web-Based Education Tools.....	5
PE- 4	Festivals and Public Events.....	6
1.2.	Public Participation And Involvement	7
PI- 1	Provide Support To Citizen Groups Involved In Volunteer Programs	8
PI- 2	Annual Wet Weather Workshop	9
PI- 3	Develop a Hot-Line for Citizen Involvement	10
PI- 4	Storm Drain Stenciling.....	11
1.3.	Illicit Discharge Detection And Elimination.....	12
ID- 1	Illicit Discharge Ordinance.....	13
ID- 2	Storm Sewer Mapping.....	14
ID- 3	Dry Weather Outfall Screening	15
ID- 4	Promote Household Hazardous Waste Disposal	16
ID- 5	Industrial Storm Water Compliance (<i>Level 2</i>).....	17
ID- 6	Installation of Custom Inlet Grates (<i>Level 2</i>)	18
1.4.	Construction Site Runoff Control	19
CS- 1	Storm Water Ordinance	20
CS- 2	Erosion and Sediment Control BMP Manual	21
CS- 3	Erosion and Sediment Control Training.....	22
1.5.	Post-Construction Runoff Control	23
PC- 1	Post Construction Runoff Ordinance.....	24
PC- 2	Post Construction BMP Manual	25
PC- 3	Storm Water Credits	26
1.6.	Municipal Good Housekeeping and Pollution Prevention.....	27
GH- 1	Street Sweeping	28
GH- 2	Catch Basin Cleaning.....	29
GH- 3	Storm Sewer Cleaning	30
GH- 4	Winter Weather Chemical Applications	31
GH- 5	Pesticide and Herbicide Applications	32
GH- 6	Vehicle and Equipment Maintenance Operations.....	33
GH- 7	Materials Management.....	34
GH- 8	Fuel Dispensing Operations.....	35
GH- 9	Roadway / Right-of-Way Maintenance Operations.....	36
GH- 10	Channel and Ditch Maintenance Operations	37
GH- 11	Facilities Maintenance Operations.....	38
2.	Recordkeeping and Reporting	39
3.	Schedule of Compliance	40
4.	Acronyms.....	44

City of Rock Island

Storm Water Management Program

This document is the City of Rock Island’s draft Storm Water Management Plan (SWMP) as is required by the State of Illinois under Phase II of the National Pollutant Discharge Elimination System (NPDES) storm water discharge permit program. This document follows the guidance as set forth by the Illinois Environmental Protection Agency (IEPA).

1. Storm Water Management Program

The Storm Water Management Program is the collection of compliance tasks that the City of Rock Island will be continuing and/or undertaking over the first five-year term of its NPDES municipal separate storm sewer system (MS4) permit.

IEPA is initiating its Phase II storm water program for all Census Bureau-defined urbanized areas in the state and will begin to regulate the cities and towns in those urbanized areas in March 2003. The State requires that permittees develop a SWMP that is based on the “Six Minimum Control Measures” (six MCMs) as defined by the United States Environmental Protection Agency (USEPA). The six MCMs are:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Connections
- Construction Site Runoff Control
- Post Construction Site Runoff Control
- Municipal Good Housekeeping and Pollution Prevention

The proposed SWMP for the City of Rock Island has been formatted following the six MCMs. Each of the proposed best management practices (BMPs) is organized on a single page. This allows for a uniform layout and improved readability. Each BMP has a description, identified measurable goals, responsibility assignments, a schedule for implementation, defined reporting and record keeping requirements, an owning department assignment, supporting department assignments, and an indication whether it is an on-going or new initiative. The format of the BMP tables is shown below.

BMP - # BMP Title		
<i>BMP Description</i>		
<i>Measurable Goals</i>		
<i>Responsibility</i>		
<i>Schedule</i>		
<i>Reporting and Record Keeping</i>		
<i>BMP Owner</i>	<i>BMP Support</i>	<input type="checkbox"/> Current Program <input type="checkbox"/> New Program

1.1. Public Education And Outreach

Public education was identified by USEPA as one of the three areas where cities could see the quickest return in their storm water management programs when the Phase I storm water rule was published in December, 1990. The City has had a public education program for several years, making use of traditional public awareness tools, such as newsletters, fliers and open houses. The proposed public education and outreach program distributes educational materials to the community, as well as conducting outreach activities of the impacts of storm water discharges on water bodies and the role citizens can take to reduce storm water pollution.

1.1.1. Program Objectives

The following are the overall objectives of the Public Education and Outreach section of the SWMP. The individual BMPs have measurable goals that support these overall objectives.

1. Increase the public's appreciation of its water resources.
2. Increase the public's general level of awareness of storm water runoff quality issues and their impact on water quality.
3. Increase the public's general level of awareness of the City's storm water management program and how citizens and organizations can improve storm water quality.

The BMPs in the Public Education and Outreach section all contain the prefix, "PE."

PE- 1 Public Information Programs

BMP Description

The City of Rock Island has numerous public information programs in place, both to educate and to notify the public of various public concerns and programs. The public information programs related to storm water management and storm water quality will be incorporated into these existing avenues. This will most likely be accomplished through a joint program for the community that encompasses MS4s county-wide.

Measurable Goals

1. Produce at least two (2) brochures focused on storm water issues over the permit term.
2. Distribute at least two (2) utility billing inserts.
3. Publish information on the storm water management program annually.
4. Publish an article in the Argus annually on one of the SWMP program elements.

Responsibility

1. DPW will either handle the public information programs or will enter into an inter-local agreement with a third party to perform this function regionally.

Schedule

1. Utility inserts – Two over permit term
2. Brochures – Two over permit term
3. Program information – Annually
4. Newspaper article - Annually

Reporting and Record Keeping

1. Track number of publications created and distribution to public.
2. Include copies of the public education materials in the annual reports required by the NPDES storm water discharge permit.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PE- 2 Storm Water Program Mascot

BMP Description

Numerous successful storm water programs across the country have utilized a mascot to provide an identity to the storm water program with the public. The City of Rock Island will identify a mascot that will enhance recognition of storm water issues in the community. This will most likely be accomplished through a joint program for the community that encompasses MS4s regionally.

Measurable Goals

1. Identify a storm water mascot
2. Develop the storm water mascot
3. Publicize the mascot

Responsibility

1. DPW will develop the mascot
2. DPW will advertise the mascot as part of implementing the PE-1 program element

Schedule

1. Year 3 – Create mascot
2. Year 4 and beyond – publicize and promote program with mascot

Reporting and Record Keeping

1. Was a mascot created?
2. How often is the mascot used?

BMP Owner:
DPW

BMP Support:

- Current Program
 New Program

PE- 3 Web-Based Education Tools

BMP Description

The Internet has become a tool that is used by many communities to educate the public on specific issues in their community. The City will utilize the internet to provide information on storm water issues and what the City is doing to solve storm water problems. The materials will include at a minimum the materials published as part of PE-1. Materials that focus on specific target audiences will also be included. A link to a regional water quality web-site will be developed. This will most likely be accomplished through a joint program for the community that encompasses regional MS4s.

Measurable Goals

1. Develop a plan to create the web-based education tools.
2. Develop a website and provide access to public education materials.
3. Publicize materials.

Responsibility

1. DPW

Schedule

1. Year 1 – Develop plan for creating web-based educational tools
2. Years 2-5 – Provide access to public education materials on web-site.

Reporting and Record Keeping

1. Was plan developed?
2. Were the materials created?
3. How many web-site “hits” were received for each item?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PE- 4 Festivals and Public Events

BMP Description

The City of Rock Island participates in numerous festivals and events throughout the year that provide an opportunity to showcase storm water quality practices and information. Events like River Action events provide a focus on environmental issues. Other more general events, like the Summer Fest, are not focused on environmental issues, however, they provide access to a large audience that may not be aware of storm water issues.

Measurable Goals

1. Educate the general public through public festivals and events

Responsibility

1. DPW will provide staff and resources to provide educational materials to the general public at public events.

Schedule

1. Annually – Participate in public events

Reporting and Record Keeping

1. How many events did DPW staff volunteer/attend?
2. How many brochures distributed?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

1.2. Public Participation And Involvement

The public can provide valuable input and assistance to the development and implementation of the City's storm water program. The advantages of active public involvement include reduced pollutant loads, increased program support, and vigilant protection of waterbodies. The City and local organizations focus the activities proposed for inclusion in this MCM on making the public aware of opportunities for involvement in the activities that are offered.

1.2.1. Program Objectives

The following are the overall objectives of the Public Participation and Involvement section of the SWMP. The individual BMPs have measurable goals that support these overall objectives.

1. Increase the public's level of involvement in local wet weather programs.
2. Support volunteer efforts for projects that are not City-sponsored.
3. Maximize the opportunity for public participation in the development and implementation of the storm water management program.

The BMPs in the Public Participation and Involvement section all contain the prefix, "PI."

PI- 1 Provide Support To Citizen Groups Involved In Volunteer Programs

BMP Description

The City of Rock Island involves citizens in public service programs where it is safe and feasible to do so. The City intends to encourage volunteers to participate in numerous storm water-related programs throughout the City. These events range from stream clean-ups to stenciling and will reach out to all age groups. The City will provide support to citizen groups that want to perform stream clean-ups on their own. This support will be in the form of trash bags, gloves and pick-up service.

Measurable Goals

1. Provide programmatic support for at least one clean-up activity annually.
2. Continue to organize adopt-a-highway program.
3. Advertise volunteer clean-up opportunities by local civic groups on the City web site and other media outlets afforded to the City.

Responsibility

1. DPW will be responsible for the implementation of this BMP. Other departments will assist as needed to complete each task.

Schedule

1. Ongoing

Reporting and Record Keeping

1. Track the number of clean-up activities, the number of volunteers, and the amount of trash removed annually from each stream.
2. Track number of participants in local adopt-a-highway programs.
3. How did the City help to advertise the events?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PI- 2 Annual Wet Weather Workshop

BMP Description

The City is planning numerous programs to inform the public about storm water issues and provide opportunities for citizen participation. This BMP effort will provide the public an opportunity to comment on the City's storm water programs and to assist the City in expanding or improving the current operations and programs by hosting a wet weather workshop in conjunction with the annual DPW Open House. Presentations on the City's storm water program and SWMP elements will be made and comments will be solicited.

Measurable Goals

1. Host annual workshop.
2. Advertise annual workshop to local citizens on City web site, through mailings, and news media.

Responsibility

1. DPW will be responsible for the implementation of this BMP. Other departments will assist as needed to complete each task.

Schedule

1. Annual workshop should start in Year 3

Reporting and Record Keeping

1. Track number of participants.
2. Provide exit questionnaire for participants to provide input and suggestions on workshop.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PI- 3 Develop a Hot-Line for Citizen Involvement

BMP Description

Currently the City has a Special Action Request System (SARS) that takes public calls for maintenance requests. The City will expand this service to provide an avenue to submit construction site problem reports, illegal dumping complaints, as well as other storm water related problems. This number will be publicized through the City's normal advertising channels and will be put on all brochures concerning storm water and in the phone book.

Measurable Goals

1. Develop a centralized method of handling storm water calls at the SARS number.
2. Add the hot-line number to all brochures created to inform the public about storm water.

Responsibility

1. DPW will develop the methods of routing the calls to the appropriate department from the SARS.

Schedule

1. Year 1 – Setup routing methods
2. Year 1-5 – Implement hot-line and routing

Reporting and Record Keeping

1. Was the hot-line established?
2. How many calls were received?
3. What types of calls were received?
4. What was the resolution of the calls?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PI- 4 Storm Drain Stenciling

BMP Description

Citizens commonly believe that all drainage inlets go to the wastewater plant, particularly in a city where some drainage inlets do go to the treatment plant in the combined sewer service area. One of the most effective methods of “getting the word out” about this erroneous assumption is with inlet stencils or placards. By placing a placard on storm inlets the City will reduce the incidence of improper disposal in the storm drainage system.

Measurable Goals

1. Select stencil or placard for local use.
2. Procure stencils or placards.
3. Enlist volunteer help for stenciling or placarding.
4. Alert the news media about the events.

Responsibility

1. DPW will be the primary responsible department.

Schedule

1. Year 1 – Planning.
2. Years 2-5 – Installation of placards or application of stencils

Reporting and Record Keeping

1. Were the placards or stencils selected?
2. Were the placards or stencils procured?
3. Were the placards or stencils installed?
4. How many are installed?

BMP Owner:

DPW

BMP Support:

Volunteers

- Current Program
 New Program

1.3. Illicit Discharge Detection And Elimination

The City of Rock Island has the legal authority to regulate industrial discharges and does so by local ordinance. This ordinance needs to be reviewed and updated to prohibit non-storm water discharges and illegal dumping to the storm water conveyance system. The City also plans to update its maps to show the storm sewer system. As part of its standard drawings and specifications the City will investigate the use of pre-cast custom inlet covers that have no dumping messages on the hoods. The City maintains household hazardous waste, appliance pick-up, and used oil recovery programs. The City intends to maintain these programs and expand if necessary.

1.3.1. Program Objectives

The following are the overall objectives of the Illicit Discharge Detection and Elimination section of the SWMP. The individual BMPs have measurable goals that support these overall objectives.

1. Decrease the incidence of illicit discharges and illegal dumping.
2. Remove illicit discharges and illegal dump sites when they are identified.
3. Provide the public with a method for reporting problems.
4. Provide improved MS4 system mapping.
5. Continued inspection of high-priority areas of industrial activity.
6. Continued changeover of leaking septic systems to sanitary sewer customers.

The BMPs in the Illicit Discharge Detection and Elimination section all contain the prefix, "ID."

ID- 1 Illicit Discharge Ordinance

BMP Description

The City has an ordinance in the sanitary regulations prohibiting illicit discharges to the sanitary sewers and regulating industrial dischargers. The ordinance needs to be reviewed to make sure that it meets the criteria for prohibiting non-storm water discharges to the storm conveyance system. If not adequately addressed in the existing ordinance the issue of illicit connections and improper disposal will be included in the new storm water management ordinance.

Measurable Goals

1. Review and update ordinance.
2. Publicize the ordinance and the changes
3. Develop and implement enforcement procedures

Responsibility

1. DPW will review and update the ordinance. They will also develop the enforcement procedures and publicize as needed.

Schedule

1. Year 1 – Review ordinance and propose changes as needed.
2. Year 2 – Adopt revised ordinance (if necessary) and develop enforcement procedures.
3. Years 2-5 – Publicize ordinance and enforcement procedures as well as implement ordinance.

Reporting and Record Keeping

1. Was the ordinance reviewed and updated?
2. Were enforcement procedures developed?
3. Was the ordinance publicized? (maintain copies of the publications or ads)

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

ID- 2 Storm Sewer Mapping

BMP Description

In order to implement both an effective illicit discharge detection and elimination program and a comprehensive water quality planning program it is important to have accurate mapping of outfall locations and the storm drainage system. The City will map the entire storm sewer system. This information is being input into the local GIS.

Measurable Goals

1. Mapping of the storm sewer system and outfalls.

Responsibility

1. DPW will provide the resources necessary to map the storm sewer system.

Schedule

1. Years 1 and 2 – Map the storm sewer system.

Reporting and Record Keeping

1. How many miles of storm sewer were mapped?
2. How many outfalls were found?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

ID- 3 Dry Weather Outfall Screening

BMP Description

The City will develop the procedures and documentation process needed to perform dry-weather screening for storm drainage system outfall mapping and inventory efforts. Each outfall will be screened visually to determine if a dry weather discharge exists or if there is an indication that contaminated discharges existed in the past. All dry weather discharges will be tested for contaminants twice within 24 hours. Any suspect discharges will be reported to DPW, who will take the appropriate actions to eliminate it.

Measurable Goals

1. Identify storm water outfalls
2. Eliminate contaminated dry weather discharges to the storm water conveyance system

Responsibility

1. DPW will develop the procedures and screen the outfalls.
2. DPW will identify the discharge sources and eliminate illicit discharges.

Schedule

1. Year 1 – Develop procedures and plan dry weather screening.
2. Years 2-5 – Implement plan and screen prioritized outfalls.

Reporting and Record Keeping

1. Maintain a copy of the procedures.
2. How many outfalls were screened?
3. How many outfalls were wet and/or contaminated?
4. How many outfalls/illicit discharges were eliminated?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

ID- 4 Promote Household Hazardous Waste Disposal

BMP Description

The City and surrounding communities run and maintain operations to accept household hazardous waste. The City of Rock Island has appliance pick-up and used oil recovery programs. The used oil recovery program is for marina customers. The City encourages residents to use the household hazardous waste program in Scott County, Iowa.

Measurable Goals

1. Promote and publicize proper disposal of household hazardous waste to reduce the potential for improper disposal and illegal dumping.

Responsibility

1. DPW will be responsible for developing advertisements for the household hazardous waste programs available to the residents of Rock Island.

Schedule

1. Year 1 – Work with Scott County officials to “track” drop-offs from City of Rock Island residents.
2. Year 2 – Develop a household hazardous waste flyer.
3. Years 3-5 – Distribute the flyer to key businesses and provide flyers at fair and festivals.

Reporting and Record Keeping

1. Was the flyer developed? (provide a copy with the first annual report)
2. How many flyers were distributed?
3. To what business and locations were flyers distributed?
4. Report turn-in numbers from Scott County.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

ID- 5 Industrial Storm Water Compliance (Level 2)

BMP Description

The City will develop a database of local industries that are required to maintain a storm water permit. The City may provide storm water credits for properly maintained permits.

Measurable Goals

1. Develop a database of local industries required to maintain NPDES storm water permits.
2. Consider credits for proof of compliance with NPDES storm water permits.

Responsibility

1. DPW will develop the database and storm water credit criteria.

Schedule

1. Year 2 – Develop the industrial database.
2. Year 3-5 – Consider credits for NPDES storm water permits.

Reporting and Record Keeping

1. Was the industrial database developed?
2. How many credits were issued.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

ID- 6 Installation of Custom Inlet Grates (Level 2)

BMP Description

Several foundries offer custom stamped inlet grates with storm water messages on the hood and grate. Several have started stocking grates and inlets with general messages. The City will investigate the cost effectiveness of developing a custom grate to replace old grates and to require for use in new developments. The City will require that stamped storm drain elements be noted on new development plans and will check that the requirement has been met during the plan review process.

Measurable Goals

1. Review of stamped inlet grate options
2. Development of a custom grate, if feasible.
3. Require stamped inlets in new developments, if feasible.

Responsibility

1. DPW

Schedule

1. Year 1 – Investigate feasibility of custom grate and develop grate and associated policies
2. Years 2-5 – Implement the new inlet grate policy, if feasible.

Reporting and Record Keeping

1. Was stamped grate policy developed?
2. Was a custom stamped grate developed?*
3. How many grates were replaced or installed?*

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

1.4. Construction Site Runoff Control

The City of Rock Island's existing erosion and sediment control program requires plans for all new non-residential development and all residential development disturbing 10,000 square feet or more. The City's erosion and sediment control program includes inspection, enforcement, and technical guidance criteria for the design, installation and maintenance of erosion and sediment control measures.

1.4.1. Program Objectives

The following are the overall objectives of the Construction Site Runoff Control section of the SWMP. The individual BMPs have measurable goals that support these overall objectives.

1. Retain sediment generated by construction activities on the site to the maximum extent practicable.
2. Promotion of the City's erosion and sedimentation control plan requirements in the storm water ordinance.
3. Provide educational opportunities for developers and inspectors through training.
4. Develop an inspector certification program for compliance with erosion and sediment control requirements.

The BMPs in the Construction Site Runoff Control section all contain the prefix, "CS."

CS- 1 Storm Water Ordinance

BMP Description

The City is developing a storm water ordinance that will require erosion and sediment control plans for all new development and redevelopment that disturb over 10,000 square feet of land surface. The ordinance provides controls for construction site and post construction site runoff, requires inspections, and defines enforcement penalties.

Measurable Goals

1. Develop an ordinance that reduces sediment and erosion from construction site runoff.
2. Publicize the ordinance and its requirements to the development and engineering communities.

Responsibility

1. DPW will develop, publicize, and enforce the ordinance.

Schedule

1. Year 1 – Develop the ordinance.
2. Years 2-5 – Publicize and enforce the ordinance.

Reporting and Record Keeping

1. Was the ordinance developed and adopted by the City Council?
2. Where was the ordinance publicized? (provide copies of the ads or articles)
3. What types of violations were encountered and what enforcement actions were taken?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

CS- 2 Erosion and Sediment Control BMP Manual

BMP Description

The City intends to adopt an erosion and sediment control BMP manual that complements its storm water ordinance. The manual will provide acceptable BMPs for erosion and sediment control with the Rock Island city limits. It will also provide design and construction guidelines for each of the BMPs with example drawings and submittal checklists.

Measurable Goals

1. Adopt a BMP manual for erosion and sediment control that complements the storm water ordinance.

Responsibility

1. DPW will adopt the BMP manual.

Schedule

1. Year 2 – Adopt BMP manual.
2. Years 2-5 – Publicize manual to engineering and development community.

Reporting and Record Keeping

1. Was a BMP manual adopted?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

CS- 3 Erosion and Sediment Control Training

BMP Description

The City will publish available sessions for training of staff, developers, engineers, and inspectors for the sediment and erosion control portion of the storm water ordinance. The training will follow IDOT erosion and sediment control training procedures. An executive or overview training will be provided for staff that will include administrators, plan reviewers, staff engineers and inspectors. More detailed and in-depth training will be provided for inspectors, plan reviewers, developers, contractors and engineers.

Measurable Goals

1. Development of a training course(s).
2. Provide annual training.

Responsibility

1. DPW will be responsible for developing and providing the training sessions.

Schedule

1. Year 2 – Develop training materials.
2. Years 3-5 – Conduct training courses for developers, engineers, inspectors and staff.

Reporting and Record Keeping

1. Were the materials developed?
2. How many training sessions were provided?
3. How many people attended the training sessions?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

1.5. Post-Construction Runoff Control

The City of Rock Island has developed a storm water ordinance in which post construction runoff is controlled through BMPs. This criteria is applied to new development and redevelopment sites that disturb 10,000 or more square feet of land.

1.5.1. Program Objectives

The following are the overall objectives of the Post Construction Runoff Control section of the SWMP. The individual BMP elements each have measurable goals that the element will accomplish in support of these overall objectives.

1. Decrease total suspended solids in post construction runoff from sites of new development and significant redevelopment.
2. Provide training to staff and developers on the water quality policies and design standards in the City of Rock Island.
3. Provide training to staff and inspectors on the importance of BMP maintenance and how to properly inspect the BMPs.
4. Address water quality issues in flood control projects.

The BMPs in the Post Construction Runoff Control section all contain the prefix, "PC."

PC- 1 Post Construction Runoff Ordinance

BMP Description

The City of Rock Island is developing a storm water ordinance that will address the water quality of post construction runoff. This ordinance will require that post construction controls be installed at newly developed sites. This ordinance will require ongoing maintenance and inspections. The City will provide training for staff, developers, engineers, and inspectors.

Measurable Goals

1. Reduce pollutant loads from newly developed or redeveloped sites.
2. Educate the development community about storm water pollution.

Responsibility

1. DPW will develop the ordinance language and training materials.

Schedule

1. Year 1 – Develop ordinance and training materials.
2. Years 2-5 – Publicize ordinance and provide training for staff, developers, engineers and inspectors.

Reporting and Record Keeping

1. Was the ordinance developed and adopted by City Council?
2. How many training sessions were provided?
3. How many people attended the training sessions.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PC- 2 Post Construction BMP Manual

BMP Description

The City will adopt a BMP manual that contains acceptable designs and design methodology for post construction runoff controls. Innovative designs will be reviewed on an individual basis. The City will develop and provide training on the design manual and the plan review process.

Measurable Goals

1. Provide approved BMPs to meet the City's pollution control objectives
2. Provide training to properly design and review plans for post construction controls.

Responsibility

1. DPW will adopt the BMP manual and develop the training materials.

Schedule

1. Year 2 – Adopt the BMP manual and develop the training materials.
2. Years 3-5 – Provide training for staff, developers, engineers and inspectors.

Reporting and Record Keeping

1. Was a BMP manual adopted?
2. How many training sessions were held?
3. How many people attended the training sessions?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

PC- 3 Storm Water Credits

BMP Description

The City has developed a storm water utility to pay for the maintenance and operation of the storm water conveyance systems throughout the City. The City is willing to credit non-residential customers who reduce the load on the conveyance system or who provide water quality benefits to the watershed above the design requirements. This will be handled through storm water credits.

Measurable Goals

1. Provide an incentive to non-residential customers to reduce their impact on the storm water conveyance system through a crediting mechanism.

Responsibility

1. DPW will develop the credit criteria and associated manuals and training materials.

Schedule

1. Year 1 – Develop a credit manual and training materials.
2. Year 3 – Revise credit manual to be consistent with BMP manual.
3. Ongoing (starting in Year 1) – Implement crediting mechanism.

Reporting and Record Keeping

1. Was the crediting mechanism developed?
2. How many customers utilized the crediting mechanism?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

1.6. Municipal Good Housekeeping and Pollution Prevention

The City currently has programs for street sweeping, catch basin maintenance and cleaning, and litter removal during right of way maintenance. These programs remove potential storm water pollution before it has a chance to be washed into and through the storm drainage system. These activities will continue. Improved record keeping will allow the City to quantify how effective these programs are and will aide in future prioritization of contract services.

1.6.1. Program Objectives

The following are the overall objectives of the Municipal Good Housekeeping and Pollution Prevention section of the SWMP. The individual BMPs have measurable goals that support these overall objectives.

1. Decrease pollutant discharges to receiving streams from municipally owned property
2. Decrease pollutant discharges to receiving streams from municipal activities
3. Improve the recordkeeping and reporting processes for municipal operations to facilitate better tracking of the effectiveness of these operations

The BMPs in the Municipal Good Housekeeping and Pollution Prevention section all contain the prefix, "GH."

GH- 1 Street Sweeping

BMP Description

Street sweeping programs assist municipal water quality management programs by reducing the loads of floatable materials and solids on street surfaces that would otherwise be washed into the storm sewers. The City of Rock Island has a street sweeping program that sweeps 3,000 curb miles of roadway annually. The City continually prioritizes its sweeping program to insure that identified hot spots for solids accumulation are swept more frequently than others. This program will continue.

Measurable Goals

1. Reduce the loads of solids and floatable materials from the street surfaces that would otherwise be washed into the storm drainage system.

Responsibility

1. DPW

Schedule

1. Ongoing

Reporting and Record Keeping

1. Curb miles of streets swept annually.
2. Volume or mass of material removed annually.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

GH- 2 Catch Basin Cleaning

BMP Description

The City of Rock Island has over 3,650 catch basins in its storm drainage collection system. There is an existing program for catch basin cleaning that focuses on the cleaning of grate tops and the cleaning of catch basin vaults. The grate top cleaning portion of the program maintains the inlet capacity by removing materials that are “strained” from the storm water runoff entering the drainage system through the grates. The vault cleaning portion of this program removes materials captured in the vaults that were small enough or flexible enough to enter through the grates but coarse enough to be captured. This program will continue.

Measurable Goals

1. Remove floatable and coarse solid materials from storm water runoff before they enter the drainage system.

Responsibility

1. DPW

Schedule

1. On-going

Reporting and Record Keeping

1. Record the number of grate tops and vaults cleaned annually.
2. Track the mass or volume of material removed by the grate and vault cleaning program.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

GH- 3 Storm Sewer Cleaning

BMP Description

The City of Rock Island has over 95 linear miles of storm sewer and appurtenances in its storm drainage collection system. The City cleans its storm sewers whenever there is sufficient blockage to reduce the capacity of a particular portion of the drainage system. This program will continue.

Measurable Goals

1. Remove sediment and coarse solid materials from storm sewers before they leave the drainage system as part of the operation and maintenance of the storm sewer system when system capacity is impaired.

Responsibility

1. DPW

Schedule

1. On-going

Reporting and Record Keeping

1. Record the length of storm sewer cleaned annually.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

GH- 4 Winter Weather Chemical Applications

BMP Description

The City of Rock Island uses a salt, calcium chloride and/or sand application to deice roadways during winter weather events in order to maintain safe driving conditions. The salt storage areas are protected from the storm drainage system. On an annual basis the spreading equipment is calibrated for the proper spreading rate when the hoppers are installed on the trucks for the winter season. This program will continue.

Measurable Goals

1. Manage the use of winter weather roadway deicers to minimize adverse environmental impacts to the maximum extent practicable.

Responsibility

1. DPW

Schedule

1. On-going

Reporting and Record Keeping

1. Record the number of spreaders calibrated annually.
2. Track the amount of salt applied to roadways annually.

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

GH- 5 Pesticide and Herbicide Applications

BMP Description

The City uses both contract labor and staff to apply pesticides and herbicides on city owned property. The current contracts will be reviewed to determine if the required certifications are in place for each of the contractors.

Measurable Goals

1. Reduction of pesticides and herbicides in the storm water runoff.
2. Use of properly certified applicators.

Responsibility

1. DPW will review existing contracts and train staff on the proper application and use of pesticides and herbicides.

Schedule

1. Year 3 – Review contracts and develop educational materials.
2. Year 4 – Train staff in proper use and application of pesticides and herbicides.

Reporting and Record Keeping

1. Do applicators have the required certifications?
2. Has staff been trained in the use of pesticides and herbicides?

BMP Owner:

DPW

BMP Support:

Parks Department

- Current Program
 New Program

GH- 6 Vehicle and Equipment Maintenance Operations

BMP Description

The City of Rock Island maintains vehicles and equipment within the normal operations of several departments. The City will develop a stormwater pollution prevention plan (SWPPP) to be used by each of these departments that addresses issues related to pollution prevention, materials management, and good housekeeping at its maintenance facilities. The SWPPP will address maintenance facilities and associated activities, such as washing areas, fueling operations, and storage areas for fluids, parts, and equipment awaiting maintenance. The SWPPP will include a schedule of periodic inspections.

Measurable Goals

1. Prepare the vehicle and equipment maintenance SWPPP.
2. Implement the SWPPP at all City-owned maintenance facilities.

Responsibility

1. SWPPP development – DPW
2. SWPPP implementation – all departments maintaining vehicles and equipment

Schedule

1. Year 1 – develop the SWPPP
2. Years 1-5 – implement the SWPPP

Reporting and Record Keeping

1. Was the generic vehicle and equipment maintenance SWPPP created?
2. Are the periodic inspections being performed?
3. Are deficiencies being found in the inspections and are they being corrected?

BMP Owner:

DPW

BMP Support:

Other departments with maintenance operations (Parks, Fire, etc)

- Current Program
 New Program

GH- 7 Materials Management

BMP Description

The City of Rock Island maintains inventories / stockpiles of materials associated with the normal operations of several departments, such as topsoil, gravel, mulch, and other landscaping supplies. The City will develop a SWPPP to be used by its departments that addresses issues related to pollution prevention through materials management, and good housekeeping at these facilities. The SWPPP will address management of runoff near materials stored outdoors. The SWPPP will include a schedule of periodic inspections.

Measurable Goals

1. Prepare the materials management SWPPP.
2. Implement the SWPPP at all City-owned facilities with outdoor material storage facilities.

Responsibility

1. SWPPP development – DPW
2. SWPPP implementation – all departments with outdoor materials storage yards

Schedule

1. Year 1 – develop the SWPPP
2. Years 1-5 – implement the SWPPP

Reporting and Record Keeping

1. Was the generic materials management SWPPP created?
2. Are the periodic inspections being performed?
3. Are deficiencies being found in the inspections and are they being corrected?

BMP Owner:

DPW

BMP Support:

Departments with outdoor materials storage facilities (DPW, Parks, etc)

- Current Program
 New Program

GH- 8 Fuel Dispensing Operations

BMP Description

The City of Rock Island provides fueling services to several City departments. Several of the dispensing areas are in areas that do not drain to the MS4 but others do. The City will evaluate each site to determine whether it would be appropriately covered by a spill prevention, control and countermeasures (SPCC) plan, or whether a SWPPP would be more appropriate. This determination will be made based on the most recent version of the spill prevention regulations from the federal government (40 CFR 112). When the SWPPP is more appropriate, it will be used by departments that own or manage fuel dispensing facilities. The SWPPP will include a schedule of periodic inspections.

Measurable Goals

1. Prepare the fuel dispensing operations SWPPP.
2. Implement the SWPPP at appropriate City-owned facilities.

Responsibility

1. SWPPP development – DPW
2. SWPPP implementation – all departments with fuel dispensing stations not covered by an SPCC

Schedule

1. Year 1 – develop the SWPPP
2. Years 1-5 – implement the SWPPP

Reporting and Record Keeping

1. Was the generic fuel dispensing operations SWPPP created?
2. Are the periodic inspections being performed?
3. Are deficiencies being found in the inspections and are they being corrected?

BMP Owner:

DPW

BMP Support:

Departments with fuel dispensing stations not covered by an SPCC

- Current Program
 New Program

GH- 9 Roadway / Right-of-Way Maintenance Operations

BMP Description

The City of Rock Island maintains roadways, right-of-ways, and other easements. The maintenance activities include mowing, chemical applications, pothole filling, repaving, and repair of other utilities crossing through the right-of-way or in easements. The City will develop a stormwater pollution prevention plan (SWPPP) to be used during land disturbing activities, such as utility replacement. The SWPPP will address materials management, management of runoff, chemical applications, litter pickup in right-of-ways, and other relevant issues. The SWPPP will include a schedule of periodic inspections.

Measurable Goals

1. Prepare the roadways / right-of-way maintenance SWPPP.
2. Implement the SWPPP on City projects and contracts.

Responsibility

1. SWPPP development – DPW
2. SWPPP implementation – DPW, Parks

Schedule

1. Year 1 – develop the SWPPP
2. Years 1-5 – implement the SWPPP

Reporting and Record Keeping

1. Was the generic roadways / right-of-way maintenance SWPPP created?
2. Are the periodic inspections being performed?
3. Are deficiencies being found in the inspections and are they being corrected?

BMP Owner:

DPW

BMP Support:

Departments roadways / right-of-way maintenance responsibilities

- Current Program
 New Program

GH- 10 Channel and Ditch Maintenance Operations

BMP Description

The City of Rock Island maintains some open drainage systems that are in the right-of-way or on city owned easements. The City will develop standard operating procedures (SOPs) that address issues related to maintaining open channels and ditches that reflect pollution prevention opportunities and minimal disruption of in-stream and riparian habitats.

Measurable Goals

1. Prepare the ditch and channel maintenance SOPs.
2. Implement the SOPs.

Responsibility

1. DPW

Schedule

1. Year 2 – develop the SOPs
2. Years 2-5 – implement the SOPs

Reporting and Record Keeping

1. Were the ditch and channel maintenance SOPs created?
2. Are the ditch and channel maintenance SOPs being utilized?

BMP Owner:

DPW

BMP Support:

- Current Program
 New Program

GH- 11 Facilities Maintenance Operations

BMP Description

The City of Rock Island maintains building exteriors and grounds of publicly owned facilities. The City will develop a stormwater pollution prevention plan (SWPPP) to be used by its departments that addresses issues related to pollution prevention through materials management, and good housekeeping at these facilities. The SWPPP will include a schedule of periodic inspections.

Measurable Goals

1. Prepare the facilities management SWPPP.
2. Implement the SWPPP at all City-owned facilities.

Responsibility

1. SWPPP development – DPW
2. SWPPP implementation – all departments that maintain facilities

Schedule

1. Year 2 – develop the SWPPP
2. Years 2-5 – implement the SWPPP

Reporting and Record Keeping

1. Was the facilities maintenance SWPPP created?
2. Are the periodic inspections being performed?
3. Are deficiencies being found in the inspections and are they being corrected?

BMP Owner:

DPW

BMP Support:

Departments that maintain facilities

- Current Program
 New Program

3. Recordkeeping and Reporting

The City of Rock Island will develop a recordkeeping methodology that will manage the data required to meet the needs of the NPDES storm water permit. These methodologies will provide automatic updates for data collection processes for each of the six minimum control measures.

A data needs matrix will be developed for each of the six minimum control measures and distributed to the person in charge of managing that minimum control measure. As data is received, each part of the matrix will be filled in to identify that that data has been assimilated into the reporting mechanism. At the end of the permit year, all of the data gathered will be combined in to the annual report and submitted to IEPA.

3. Schedule of Compliance

The following table is a roll-up of the scheduled activities in the proposed storm water management program.

City of Rock Island NPDES MS4 Permit Schedule of Compliance	Year 1		Year 2		Year 3		Year 4		Year 5		
	March 10, 2003	March 10, 2004	June 8, 2004	March 10, 2005	June 8, 2005	March 10, 2006	June 8, 2006	March 10, 2007	June 8, 2007	March 10, 2008	January 10, 2008 June 8, 2008
Overall Program Management											
Notice of Intent - Interlocal agreements - Proposed SWMP - SWMP cost and schedule	■										
Annual Reports			■		■		■		■		■
Reapplication										■	
Public Education and Outreach Program											
PE-1 Public Information Programs	■	■	■	■	■	■	■	■	■	■	■
PE-2 Storm Water Mascot											
Create mascot					■	■					
Publicize and promote mascot program							■	■	■		
PE-3 Web-Based Education Tools											
Develop educational tools program and schedule	■	■									
Provide access to educational tools on web-site		■	■	■	■	■	■	■	■	■	
PE-4 Festivals and Public Events	■	■	■	■	■	■	■	■	■	■	
Public Involvement and Participation Program											
PI-1 Provide Support To Citizen Groups Involved In Volunteer Programs	■	■	■	■	■	■	■	■	■	■	
PI-2 Annual Wet Weather Workshop			■	■	■	■	■	■	■	■	
PI-3 Develop a Hot-Line for Citizen Involvement	■	■	■	■	■	■	■	■	■	■	
PI-4 Storm Drain Stenciling											
Planning.	■	■									
Installation of placards or application of stencils		■	■	■	■	■	■	■	■	■	
Illicit Discharge Detection and Elimination Program											
ID-1 Illicit Discharge Ordinance											
Review ordinance and propose changes as needed.	■	■									
Adopt revised ordinance (if necessary) and develop enforcement procedures.			■	■							
Publicize ordinance and enforcement procedures as well as implement ordinance.				■	■	■	■	■	■	■	
ID-2 Storm Sewer Mapping	■	■	■	■							
ID-3 Dry Weather Outfall Screening											
Develop procedures and plan dry weather screening	■	■									
Implement plan and screen prioritized outfalls		■	■	■	■	■	■	■	■	■	
ID-4 Promote Household Hazardous Waste Disposal Options											
Work with Scott County officials to “track” drop-offs from City or Rock Island residents.	■	■									

City of Rock Island NPDES MS4 Permit Schedule of Compliance	Year 1		Year 2		Year 3		Year 4		Year 5		
	March 10, 2003	March 10, 2004	June 8, 2004	March 10, 2005	June 8, 2005	March 10, 2006	June 8, 2006	March 10, 2007	June 8, 2007	March 10, 2008	January 10, 2008 June 8, 2008
Develop a household hazardous waste flyer											
Distribute the flyer											
ID-5 Industrial Storm Water Compliance											
Develop the industrial database											
Consider credits for NPDES storm water permits.											
ID-6 Installation of Custom Inlet Grates											
Custom grate feasibility study											
Implementation of custom grate policy											
Construction Site Runoff Program											
CS-1 Storm Water Ordinance											
Develop and adopt ordinance											
Publicize and enforce ordinance											
CS-2 Erosion and Sediment Control BMP Manual											
Adopt BMP manual											
Publicize BMP manual											
CS-3 Erosion and Sediment Control Training											
Develop training materials											
Conduct training courses for developers, engineers, inspectors and staff											
Postconstruction Site Runoff Program											
PC-1 Post Construction Runoff Ordinance											
Develop and adopt ordinance											
Publicize and enforce ordinance											
PC-2 Post Construction BMP Manual											
Adopt the BMP manual and develop the training materials											
Provide training for staff, developers, engineers and inspectors											
PC-3 Storm Water Credits											
Develop a credits manual and training materials.											
Revise credit manual to be consistent with BMP manual.											
Implement crediting mechanism.											
Municipal Pollution Prevention/Good Housekeeping											
GH-1 Street Sweeping											
GH-2 Catchbasin Cleaning											
GH-3 Storm Sewer Cleaning											
GH-4 Winter Weather Chemical Applications											
GH-5 Pesticide and Herbicide Applications											

City of Rock Island NPDES MS4 Permit Schedule of Compliance	Year 1		Year 2		Year 3		Year 4		Year 5		
	March 10, 2003	March 10, 2004	June 8, 2004	March 10, 2005	June 8, 2005	March 10, 2006	June 8, 2006	March 10, 2007	June 8, 2007	March 10, 2008	January 10, 2008 June 8, 2008
Review contracts and develop educational materials.											
Train staff in proper use and application of pesticides and herbicides.											
GH-6 Vehicle and Equipment Maintenance Operations											
Develop the SWPPP											
Implement the SWPPP											
GH-7 Materials Management											
Develop the SWPPP											
Implement the SWPPP											
GH-8 Fuel Dispensing Operations											
Develop the SWPPP											
Implement the SWPPP											
GH-9 Roadway / Right-of-Way Maintenance Operations											
Develop the SWPPP											
Implement the SWPPP											
GH-10 Channel and Ditch Maintenance Operations											
Develop the SOPs											
Implement the SOPs											
GH-11 Facilities Maintenance Operations											
Develop the SWPPP											
Implement the SWPPP											

4. Acronyms

The following acronyms are used throughout this permit application.

BMP	best management practice
CFR	Congressional Federal Register
CS	Construction Site Runoff Control (BMP prefix)
CSO	combined sewer overflow
DPW	Department of Public Works
GH	Good Housekeeping / Pollution Prevention (BMP prefix)
ID	Illicit Discharge (BMP prefix)
IEPA	Illinois Environmental Protection Agency
MCM	minimum control measure
MS4	municipal separate storm sewer system
NPDES	National Pollutant Discharge Elimination System
PE	Public Education and Outreach (BMP prefix)
PI	Public Involvement and Participation (BMP prefix)
PC	Post Construction Runoff Control (BMP prefix)
SSO	sanitary sewer overflow
SPCC	spill prevention, control, and countermeasures
SWM	storm water management
SWMP	storm water management program
SWPPP	storm water pollution prevention plan
TMDL	total maximum daily load
TSS	total suspended solids
USEPA	United States Environmental Protection Agency