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Municipality/Organization: **Rochester, New Hampshire**

EPA NPDES Permit Number:

NHDES Permit Number: NHR041028

Annual Report Number & Reporting Period: **April 1, 2013– March 31, 2014(report no. 11)**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2014)

Part I. General Information

Contact Person: Peter Nourse, PE Title: Public Works Commissioner

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Daniel W. Fitzpatrick

Printed Name: Daniel Fitzpatrick

Title: City Manager

Date: APR 2 5 2014

Part II. Self-Assessment

The City of Rochester has continued to operate under the practices and procedures put into place during the 2003-2008 permit period until a new General Permit is issued by EPA New England. We have continued to develop our processes under our local Stormwater Management Ordinance (Chapter 50), which was adopted in May 2008.

During this permit period we processed 28 local construction-related stormwater permits. There are three levels of permit requirements: one level for site disturbances of between 5,000 and 20,000 square feet where there is a simplified permit review process by the Department of Public Works (DPW) in place, 20,000 square feet to 1 acre where a local stormwater management plan is required to be submitted and reviewed by DPW, and 1 acre and more in which City receives notification of the implementation of the Federal Notice of Intent program including the Stormwater Pollution Prevention Plan (SWPPP). The City also reviews all NHDES Alteration of Terrain permits for projects over 100,000 square feet (or 50,000 square feet in Shoreland Protection areas) During this reporting year, the city employed a full time construction engineer to periodically monitor private construction projects throughout the city and provided reports to the planning board. We also continued to monitor areas where construction has been halted to ensure BMPs were maintained.

The reconstruction of Brock Street continued during this year. This project included installations and improvements to the closed drainage systems as well as installations of new water quality units. As an add on to this project, the stormwater runoff from Bicycle Street was redirected to the new water quality unit in Brock Street. The city took over the construction efforts at two subdivisions where the developers were negligent in completing the necessary work. These efforts included the completion of a water quality pond/outlet structure. The city oversaw the construction of a portion of Two Rod Road as part of the first phase of the Granite Ridge Development district; the project included the construction of a stormwater pond to provide runoff treatment and mitigation prior to discharge to a nearby wetland area. The city did repairs to culvers and reconstructed outfalls to minimize erosion at Plante St., Wear St., and Oak St. The City also collaborated with the Cocheco River Watershed Coalition to construct a retrofitted raingarden in the existing Charles Street parking lot.

The city began design efforts for a reconstruction project on Franklin Street, Adams Ave., Western Ave., First St., Second St., Third St., Fourth St., and Fifth St.. These efforts will focus on the reconstruction of the closed drainage system and sewer system to prevent inflow and infiltration. The city has completed the design for the redevelopment of the East Rochester School to include a series of new raingardens to treat and mitigate runoff from impervious areas. New raingardens are also

proposed along the front of the existing parking area to improve runoff and disconnect a large portion of impervious area from the closed drainage system.

The City's Utility Division continues to be sensitive to and looks for any illicit connections into the storm sewer system as they perform their routine cleaning and maintenance activities. As these are identified, our utility crews make it a high priority to correct the problem. The City uses its sewer television camera to locate illicit connections when a stormwater outfall shows outward signs of wastewater contamination (e.g. gray water and solids).

This year, utility crews cleaned approximately 300 catch basins as part of the ongoing efforts to maintain all basins within the city limits, including areas outside of the regulated urbanized area.

During this reporting period, the City Planning Department has hired two fulltime employees with environmental backgrounds. The employees are a Staff Planner with formal education in Environmental Planning who brings over 10 years of experience with LID/"green" development and environmental planning projects, and a Staff Planner with formal education in Environmental Conservation and direct experience working with the Department of Environmental Services. Also involved in the planning efforts is a Professional Engineer representative from the Public Works Department, this employee is a Certified Professional in Erosion and Sedimentation Control (CPESC) and a LEED Accredited Professional. These employees participate in the Technical Review Group (TRG) that meets regularly with developers and representatives from City Boards to review and discuss the technical components of all proposed development projects, including the proposed Stormwater Mitigation measures. The hiring of these employees speaks to Rochester's commitment to environmental stewardship.

Through the City's Planning Department, the City has secured a $16,000 grant from Green Infrastructure for NH Coastal Watershed Communities. The goal of this proposed project is to revise the existing regulatory stormwater documents which the city can use to require the implementation of the best and most current stormwater mitigation practices with a focus on Low Impact Development strategies and Green Infrastructure components. The city also wishes to utilize new technological advances to implement a formal mechanism to track and monitor existing BMP's.

In terms of public participation and educational efforts, the City has continued to sponsor events such as the Earth Day/Rochester Pride Day neighborhood cleanup, held each April, and the household hazardous waste collection day held every May. Rochester Main Street worked with the Rochester Recreation department to organize the Earth Day/Rochester Pride Day City-wide cleanup. Over 217 volunteers participated in the event, work included 28.7 miles of roadway cleanup and

removal of two trucks full of tires. The City once again sponsored a household hazardous waste collection event for residents of Rochester and ten smaller surrounding communities on May 4, 2013. The event serviced approximately 280 households containing hazardous waste for drop-off. The City has also worked with various organizations such as the Piscataqua Region Estuaries Partnership (PREP), to provide public outreach regarding the state of the regional waterways. Staff met with Senator Carol Shea-Porter, representatives from the UNH Stormwater Center, and representatives from the Environmental Protection Agency to discuss past city Green Infrastructure projects. Staff will continue to meet with local leaders and legislators when opportunities arise to discuss the LID and "Green" development strategies being embraced by the City of Rochester.

The Cocheco River Watershed Coalition again analyzed water quality samples for E. Coli as part of the Volunteer River Assessment (VRAP) program.

City staff has continued their participation in regional stormwater management organizations, namely the Seacoast Stormwater Coalition. City Staff also volunteers as a technical representative on the Green Infrastructure Advisory Board. During this interim period since the expiration of first General Permit and subsequent reissuance of the next General Permit the City has worked to continue the momentum that was established to solidify practices and processes that were implemented during the final year of the Stormwater Management Plan.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
01-01	Prepare Stormwater Video	Public Works/ Engineering Division	Cable Access, school and library showings	The stormwater video continues to be a valuable tool for informing the public on the importance of stormwater stewardship and management. The video continues to be shown occasionally on the City's government cable television channel. This is augmented by other productions that we have obtained on the same subject. This year a locally produced video outlining items to bring to the household hazardous waste (HHW) day, was produced and aired on the City's government cable television channel prior to HHW day. Presentations are periodically given to City Council and aired on the City's government cable channel.	Will continue to use the stormwater video and HHW video as educational resources.
01-02	Support Annual Hazardous Waste Day	Public Works/ Office Manager	Coordinate & fund w/ Strafford Planning Commission; publicity	Community held household hazardous waste collection in Rochester on May 4, 2013. Again the city managed and coordinated regional collection for the city and 10 surrounding communities. Collected significant quantities of hazardous waste from approximately 280 households.	City is continuing to manage, publicize, and finance this regional effort annually. Another Household Hazardous Waste Collection is scheduled for May 3, 2014. Currently, we are planning only a spring HHW day.

01-03	Produce a Stormwater Brochure	Public Works/ Engineering Division	Have available for public access locations in City	Continued to make brochures available at local City venues where there is public access using materials produced in previous years.	All brochures will continue to be made available as long as the supply lasts and they remain relevant. Additional brochures will be developed as pertinent topics surface.
01-04	Localized Website	Cocheco Watershed Coalition; Public Works	Tie in with City Webpage	City's stormwater website was available to the public throughout the year. Analysis of the City's website suggested that the stormwater page on the City's website had specific 842 page views during the reporting year. The City has been regularly using social media (facebook & twitter) to inform the public on a variety of items such as construction projects, water conservation tips and hydrant flushing.	The City will continue to monitor the effectiveness of the website by reviewing traffic. Adjustments can be made to promote the page on the website as necessary. The City will continue to use social media to publicize information of interest on a variety of topics including infrastructure improvements, construction activity, and development.
01-05	School Involvement	Various Teachers/ Public Works	Promote Stormwater as a topic in the classroom	The City makes the stormwater video available for local schools to use in the classroom. DPW personnel are always available for presentations when requested by the School Department. Public Works Department offers internships for students in the nearby Monarch School.	Stormwater presentations will continue as opportunities arise. Continue project partners monitoring of existing LID sites and providing outreach tours. Water Conservation Plan implementation will provide an opportunity to include stormwater-related elements in any presentation. DPW personnel are always available for presentations when requested by the School Department. Continue work to identify areas for LID.

01-06	Stormwater related displays in City government buildings	DPW / Chief Water Plant Operator/other departments	Casually inform the public, while in a captive setting	The City Clerk's office has continued to make an effort to promote the importance of "picking up after your dog" during this past year through the use of brochures and public information displays at key City buildings during its annual dog licensing drive. "Have a little common courtesy and clean up after your pet – it's the law - $100 Fine" signage has been placed in parks and dog friendly areas.	These will continue in use throughout the year.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any).	Planned Activities – (until a new General Permit is issued).
02-01	Promote Riverbank Cleanups	Conservation Commission/ Cocheco River Watershed Coalition	Periodic Cleanup Days	Rochester Main Street worked with the Rochester Recreation department to organize the Earth Day/Rochester Pride Day City-wide cleanup. Over 217 volunteers participated in the event, work included 28.7 miles of roadway cleanup and removal of two trucks full of tires.	More of the same will continue on at least a semi-annual basis between the RRA. and Cocheco Watershed Coalition. The city Main Street organization to host downtown cleanup day again this year.
02-02	Watershed Monitoring	Conservation Commission and Cocheco Watershed Coalition	Periodic Reviews of Watershed	Cocheco Watershed Coalition has been active in monitoring the Cocheco River and its tributaries. These efforts continued during this reporting period. City of Rochester supported these efforts by conducting the laboratory analyses of the water samples collected from the Cocheco River by this organization.	Current efforts will continue. Development of data to find locations of emphasis for monitoring underway. Much data collected and now under evaluation. The City will continue to work with the Coalition to identify and improve areas where the quality of the river is of concern.
02-03	Greater Involvement of Rochester Recreation and Arena (former RAYS)	RRA Neighborhood Coordinator	Greater awareness and participation among City's neighborhood groups.	RRA has been spearheading neighborhood cleanup days. Continued to be a conduit for outreach to local neighborhoods. Stormwater awareness is promoted at several events promoted by RRA throughout the year.	Continue to promote stormwater as a cause.
02-04	Downtown Riverwalk	Planning Dept. – Riverwalk Committee	Focus attention on Cocheco River in Downtown area - Downtown Enhancement	The city continued to maintain the recent improvements to the downtown riverwalk area. The Riverwalk Committee is exploring opportunities to enhance the area and bring more of the community to the riverfront.	Continue to promote a clean water front and riverwalk area. Work with the Main Street Community on a riverwalk beatification project that brings public to the riverway to observe the natural state of the river.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
03-01	Identify and map outfalls and receiving waters	Public Works/ Engineering Division	Map all outfalls in GIS by Spring 08.	Performed visual monitoring of outfalls around the City; this year again focusing on outfalls into and out of detention ponds that have been installed and developments that have been constructed in the last ten years.	Continue as before - Collect additional samples from outfalls for analysis in-house (at WWTP) as resources allow in preparation and practice for expected requirement in upcoming permit.
03-02	Screen outfalls for Illicit Connections	Public Works/ Municipal Services Utilities Division	Screen all outfalls by Spring '05.	Fitting this effort in with other responsibilities of limited utility staffing.	Continue to use existing resources to locate and eliminate illicit connections from the stormwater conveyance system.
Revised			Further investigate and locate the source of those identified during the 2004 screening effort.		
03-03	Review and Development Stormwater Ordinance	Technical Review Group/ City Council	Adoption of Ordinance by Fall of 2006	City Council adopted stormwater ordinance on May 6, 2008. Continued to implement the practices in procedures required by the ordinance across multiple City departments	City has secured a $16,000 grant from Green Infrastructure for NH Coastal Watershed Communities. The goal of this proposed project is to revise the existing regulatory

Revised			Adoption of new Ordinance in 2008	including Planning, Code Enforcement, and Public Works Departments. Have created and implemented a stormwater permit system for new development. New stormwater planning standards have also been implemented with all new project proposals. City continues to promote the use of LID practices in private developments.	stormwater documents which the city can use to require the implementation of the best and most current stormwater mitigation practices with a focus on Low Impact Development strategies and Green Infrastructure components. .
03-04	Illicit Connection Elimination Plan	Public Works Documentation/ Municipal Services Utilities Devision	Plan Development by Summer 2006, assuming meaningful data is obtained during 03-02 effort	Was an active participant in the development of the Guidelines and Standard Operating Procedures for Illicit Discharge Detection and Elimination and Pollution Prevention/Good Housekeeping Plan for Stormwater Phase II Communities in New Hampshire as developed by the Seacoast Stormwater Coalition. This City has adopted this as its own blueprint for identifying and detecting and eliminating illicit connections.	Will continue to implement this plan within the framework of existing staffing.
Revised			Plan Development by 2008		

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
04-01	Review stormwater features during land development process	Planning Department/ Technical Review Group	Development of Site Review Standards	During this reporting period, the City Planning Department has hired two fulltime employees with environmental backgrounds. The employees are a Staff Planner with formal education in Environmental Planning who brings over 10 years of experience with LID/"green" development and environmental planning projects, and a Staff Planner with formal education in Environmental Conservation and direct experience working with the Department of Environmental Services. Also involved in the planning efforts is a Professional Engineer representative from the Public Works Department, this employee is a Certified Professional in Erosion and Sedimentation Control (CPESC) and a LEED Accredited Professional. These employees participate in the Technical Review Group (TRG) that meets regularly with developers and representatives from City Boards to review and discuss the technical components of all proposed development projects, including the proposed Stormwater Mitigation measures. The hiring of these employees speaks to Rochester's commitment to environmental stewardship.	Continue Technical Review Group efforts. Continue to work with the Planning Board and Conservation Commission to educate members on LID practices.

04-02	Revise Subdivision and Site Plan Regulations	Planning/ Technical Review Group	Adoption of Site Plan Regulations	Revised Site Plan Regulations implemented in March 2012. The City is continuing to develop comprehensive rezoning of the entire City.	City has secured a $16,000 grant from Green Infrastructure for NH Coastal Watershed Communities. The goal of this proposed project is to revise the existing regulatory stormwater documents which the city can use to require the implementation of the best and most current stormwater mitigation practices with a focus on Low Impact Development strategies and Green Infrastructure components.
04-03	Construction Monitoring of Site Development	Public Works/ Engineering Department	Visit each site; engage in corrective action	Engineering personnel continue to visit each site plan and subdivision at regular intervals. Stormwater management, erosion control, and adherence to construction plans and City standards are emphasized. Continue to monitor development of subdivisions with streets that will eventually be owned by the City as well as significant site developments with an emphasis on maintaining appropriate erosion controls. Inspections are routinely done and reports are prepared and forwarded to the developer. Conservation Commission continues to take an active role at reviewing developments and investigating complaints. Developers of new projects are required to pay City for inspection efforts; this gives the City the flexibility to hire outside consultants to assist with inspections in the event activity exceeds the ability of City staff to adequately monitor the pace of development.	Continue with current practices as resources permit. Continue to work with Planning Department and Conservation Commission to ensure development projects get scrutiny. The City has enforced stormwater BMPs at some of the largest, incomplete residential subdivisions with positive results. Continue to enforce.

04-04	Public Information / Pamphlet for Site Developers	Planning/ Conservation Commission/ Technical Review Group	Development projects are required to have a preconstruction meeting with City staff to outline requirements	Continued the practices devised in previous years. Holding preconstruction meetings for all significant projects which are attended by representatives of the owner, contractor, DPW, Planning, Economic Development, and Code Enforcement Departments. Stormwater management is always a topic on the agenda.	Continue this practice.
04-05	Encourage Innovative and Low-impact Development Practices	Planning/ Conservation Commission/ Technical Review Group	Encourage and promote low-impact development practices during site and subdivision review	Technical staff continues to meet bi-weekly to review and discuss all new development proposals before going to Planning Board. Each proposal is scrutinized for stormwater impacts, LID Strategies are encouraged.	Continue this practice, continue to monitor the construction and then performance of recently approved projects and encourage more where feasible.

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
05-01	Establish Drainage Maintenance Agreement Program	Planning/Public Works	Adopt as part of planning process	City has established a program as part of the planning process, which requires owners of site plans with stormwater conveyance, detention systems, infiltration basins, and treatment practices to maintain these systems so they work as designed. Failure to maintain gives City the right to access the property to maintain them and recover the costs from the owner. Continued this practice.	Continue with the drainage maintenance agreement process. The city is hoping to utilize new technological advances to implement a formal mechanism to track and monitor existing BMP's.
05-02	Revise Regulations for Stormwater Management	Planning/Public Works	Adoption of Regulations	A Stormwater Management Permit system was implemented in the summer 2008 in response to the adoption of the ordinance. Have coordinated with Planning and Code Enforcement Departments to establish process whereby Building Permit will not be issued unless Stormwater Permit obtained where required.	City has secured a $16,000 grant from Green Infrastructure for NH Coastal Watershed Communities. The goal of this proposed project is to revise the existing regulatory stormwater documents which the city can use to require the implementation of the best and most current stormwater mitigation practices with a focus on Low Impact Development strategies and Green Infrastructure components.

05-03	Introducing Low-Impact Development Practices to Willow Brook Watershed	Cocheco River Watershed Coalition/City of Rochester DPW/UNH Stormwater Center	Complete Grant objectives	Cocheco River Watershed Coalition and City applied for and received a Section 319 Grant from NHDES to investigate the Willow Brook (tributary to Cocheco River) watershed to identify extent of impervious cover in the watershed and to look for opportunities to reduce areas of impervious cover through the implementation of LID practices. This publication was completed in 2011. This year, the city worked with the Cochico River Watershed Coalition to construct a retrofitted raingarden in the existing Charles St. parking lot, this lot is located within the Will Brook Waterhsed	The city continues to seek funding for projects within the watershed. The City is currently at the beginning planning stages of a reconstruction project in the area of Franklin Street (within Willow Brook Watershed). Currently the plan includes improvements to the drainage system.

05-04	Introducing Low-Impact Development Practices to City Construction Projects			Brock St. has been rebuilt to include over 60 deep sump catch basins and a vortech unit. As an add on to this project, the stormwater runoff from Bicycle Street was redirected to the new water quality unit in Brock Street. The city took over the construction efforts at two subdivisions where the developers were negligent in completing the necessary work. These efforts included the completion of a water quality pond/outlet structure. The city oversaw the construction of a portion of Two Rod Road as part of the first phase of the Granite Ridge Development district; the project included the construction of a stormwater pond to provide runoff treatment and mitigation prior to discharge to a nearby wetland area. The city did repairs to culverts and reconstructed outfalls to minimize erosion at Plante St., Wear St., and Oak St.	The plans proposed for the redevelopment of the East Rochester School include new rain gardens and increased treatment and mitigation in the area of the existing parking lot. The plans proposed for the Catherine St./Sheridan Ave./Knight St. Area Improvements project include narrower residential streets, catch basin replacement/improvement, a drainage system designed for in-line storage, and a gravel-based wetland/scour pool at the outlet prior to discharge to the Cocheco River.

5a. Additions

05-05	Restrict Fertilizer use			The land surface within 25 feet of the edge of the wetland shall not be altered. Herbicides and heavy equipment are prohibited within 25 feet of the edge of the wetland. New lawns may be established beyond 25 feet from the edge of the wetland provided the wetland has been delineated/flagged by a Certified Soil Scientist. Fertilization shall be limited to lime and woodash. No fertilizer, except limestone, can be used within 25 feet of the reference line. Beyond 25 feet, slow or controlled release fertilizer may be used. Pesticide use is prohibited within 25 feet of the reference line per Administrative Rules Pes 1001.01 (NH Dept. of Agriculture) and may only be applied by a licensed applicator with a permit from the NH Agricultural Department. Site Plan Regulations require plants with minimized need for fertilizer be selected	Technical Review Group to continue to recommend low nitrogen fertilizers and minimized fertilizer use.
05-06					

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
06-01	Catch Basin Cleaning Program	Public Works/Highway Lead or Foreman	Establish Priorities	City uses VAC-Con truck to clean catch basins and manholes. Try to get to each of them every two years. Prioritized to the downtown area where they are cleaned more frequently. Staffing levels do not allow a dedicated crew to do this every day. This practice continued as staffing allowed. City maintains Vortechnics units on a recurring schedule in addition to upstream catch basins in (May and November).	Continue the same.
06-02	Street Sweeping Year Road	Public Works/Highway Lead or Foreman	Install Heating System in Garage for Winter Sweeper Storage	City has two street sweepers. All winter sand is removed from the streets and sidewalks beginning in April and is an annual priority until complete. Throughout the spring, summer, and fall months both sweepers sweep and remove debris throughout the City. Downtown areas emphasized. Winter sand cannot be removed in winter because there is no heated place to store sweepers, so they must be winterized to prevent freeze-ups.	Continue the same. In order to have street sweeping capabilities during the winter months, two garage bays will need to have heat installed or new heated garage bays installed. Will continue to use less sand to treat roads during winter snow removal as a long as motorist safety is not compromised. Proposal for new public works building has been delayed to at least 2015 due to economy. In the meantime, continue to investigate options for DPW facility.

06-03	Training of DPW Personnel			Continued with training new personnel on importance of limiting application of salt and sand to only what is necessary to ensure public safety during winter operations.	Will continue to participate in regional training opportunities as they become available.

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)
(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2010 through March 31, 2011)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures **	($)	
Total program expenditures since beginning of permit coverage	($)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	

Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	
Site inspections completed **	(# or %)	
Tickets/Stop work orders issued **	(# or %)	
Fines collected **	(# and $)	
Complaints/concerns received from public **	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	

Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or per basin contract rate **	($/hr or $ per basin)	
• Disposal cost**	($)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	
• Disposal cost**	($)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	