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

EPA NPDES Permit Number:

NHDES Permit Number: NHR041028

Annual Report Number & Reporting Period: **April 1, 2011 – March 31, 2012(report no. 9)**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

Part I. General Information

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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 30 2012

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 16 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 to 40,000 square feet where a local stormwater management plan is required to be submitted and reviewed by DPW, and 40,000 square feet and more in which City receives notification of the implementation of the Federal Notice of Intent program including the Stormwater Pollution Prevention Plan (SWPPP). During this reporting year again there was a significant drop off in the quantity of construction activity in the City over previous years due to a decline in the overall economy. The City performed periodic monitoring to those locations where there was construction activity going on and areas where construction has been halted due to the economy to ensure BMPs were maintained.

The City's Utility Division continues to be sensitive to and looks for obvious 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 get them corrected. 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 over 250 catch basins during a concerted effort of the downtown areas. City street sweeper and vac truck were down for significant repairs resulting in missing 100% structure clean out.

The City reduced the salt use by 1,000 tons this winter compared to the 2010-2011 winter.

In terms of public participation and educational efforts, the City has continued to sponsor events such as the Earth Day neighborhood cleanup, held each April, and the household hazardous waste collection day set up every May. Over 200 volunteers participated in Rochester Pride Day City-wide cleanups on April 30th, 2011. Over 265 volunteers worked again on April 21st, 2012 which included bank cleanups along the Cocheco River. The City once again sponsored a household

hazardous waste collection event for residents of Rochester and eight smaller surrounding communities on May 7, 2011. The event serviced 248 households containing hazardous waste for drop-off. Collected were 4,046 pounds of solid waste and 660 gallons of liquid waste.

The reconstruction of Pine Street, Brock Street and Salmon Falls Road are scheduled to begin in summer, 2012. These projects include rebuild of, or installation of improved closed drainage systems. The City also completed Phase I of the Colonial Pines subdivision drainage project. This project installed over 4,000 feet of new buried drainage pipe, significantly decreasing surface storm water in this large development. Phase II is to continue this year.

The Cocheco River Watershed Coalition again analyzed water quality samples for E. Coli as part of the Volunteer River Assessment (VRAP) program, In 2011 65 samples were taken. In addition to bacteria sampling, field test volunteers at 12 baseline station on the main run of the Cocheco and on Willow Brook at eight stations. The Coalition continued to be involved with the review of project plans in the river corridor.

In 2011 Low Impact Development systems in the City were monitored by project partners and outreach tours were given.

UNH Stormwater Center prepared the publication, Stormwater Management Assessment and Opportunities for the Willow Brook Watershed, Rochester, New Hampshire. The publication includes mapping and analysis of the impervious surface cover in the watershed and survey recommendations for further LID installations.

In 2011 the Willow Brook II grant project began with planning and design for LID retrofit at City Hall parking lot and residential BMPs.

Through the efforts of the Cocheco River Watershed Coalition, the Cocheco River has been designated by the New Hampshire legislature as a protected river under New Hampshire's Rivers Management and Protection Program (NHRSA 483) as of July 21, 2009. This affords the river, which bisects Rochester from west to east, added protections.

Since the implementation of the solid waste toter program City-wide in March 2008, the incidences of piles of trash curbside exposed to stormwater during rainy days has been reduced dramatically. Also, the volume of trash that has been landfilled from City residents has decreased by 20.6 percent and volume of trash that has been recycled has increased by 44.8 percent since the implementation of the this program.

City officials have continued their participation in regional stormwater management organizations, namely the Seacoast Stormwater Coalition. 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.

System mapping will proceed further upon implementation of NPEDS permit and CMOM preparation periods.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – (until a new General Permit is issued).
01-01	Prepare Stormwater Video	Public Works /Commissioner	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.	Will continue to use this as an educational resource. Prepare a locally produced video on items to bring to household hazardous waste (HHW) day to be aired on local government channel in advance of 2011 HHW collection.
Revised					
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 7, 2011. Again, managed and coordinated regional collection with 8 surrounding communities. Collected significant quantities of hazardous waste from 248 households.	City is continuing to manage, publicize, and finance this regional effort annually. Another Household Hazardous Waste Collection is scheduled for May 5, 2012. Currently, we are planning only a spring HHW day.
Revised					
01-03	Produce a Stormwater Brochure	Public Works/ City Engineer	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.
Revised					

01-04 Revised	Localized Website	Cocheco Water-shed 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 910 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.

1a. Additions

01-05	School Involvement	Various Teachers/ Public Works	Promote Stormwater as a topic in the classroom	Worked with School Street Elementary School, which is in a densely developed section of the City to promote Low Impact Development Practices (e.g. tree box filters, rain gardens, etc.) to control stormwater runoff on-site. Stormwater management is a collateral duty for many of the DPW workers and others in the City. DPW developed a draft Water Conservation Plan, which includes school involvement with DPW participation. A stormwater assessment for the Willow Brook watershed was published by the UNH Stormwater Center recommending areas for LID installations.	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 captivé 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.	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 8 (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 Recreation and Arena (RRA) conducted organized riverbank cleanups in 2011 and 2012 with over 465 participants. Approximately 5 tons of trash and debris were collected from throughout the City including along the City's waterways.	More of the same will continue on at least a semi-annual basis between the RRA. and Cocheco Watershed Coalition.
Revised		Dept of Recreation Arena and Youth Services (RAYS)			
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. The City also participated in the Cocheco Watershed Restoration Plan directed by the Cocheco Watershed Coalition.	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.
Revised					
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. Rochester Pride Day was on both April 30, 2011 and April 21, 2012 which focused on neighborhood and riverfront cleanups.
Revised					

2a. Additions

02-04	Downtown Riverwalk	Planning Dept. – Riverwalk Committee	Focus attention on Cocheco River in Downtown area - Downtown Enhancement	During this permit term, the City completed reconstructing the North Main St. Bridge next to Duval Park. The City worked with the bridge contractor to promote stormwater management. A vortechnics unit was installed to trap sediment from runoff.	

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (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	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.
Revised					
03-02	Screen outfalls for Illicit Connections	Public Works	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. One illicit connection discovered on Plante St. and corrected this period.
Revised			Further investigate and locate the source of those identified during the 2004 screening effort.		
03-03	Review and Development Stormwater Ordinance	Public Works/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 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.	Continue to implement the ordinance.
Revised			Presentation of the draft ordinance to the City Council by Spring 2008 – following draft by consultant,		

03-04	Illicit Connection Elimination Plan	Public Works Documentation	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 8 (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/Chief Planner and Public Works/ City Engineer	Development of Site Review Standards	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. City mandates a 3rd party engineer; reporting to City Engineer, review all larger development projects. Smaller projects are reviewed by City staff with little degradation in quality.	Continue process as before. New stormwater ordinance enacted in '08 has initiated a localized permitting program for ensuring stormwater management is emphasized during the planning and construction of new development. Local stormwater/erosion control permit system implemented.
Revised					
04-02	Revise Subdivision and Site Plan Regulations	Planning/Chief Planner	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.	A more comprehensive approach to stormwater management has been adopted and is being implemented through the Stormwater Ordinance. Comprehensive rezoning is expected to be adopted in 2011/2012. New regulations with a focus on LID are planned to be implemented
Revised					

04-03	Construction Monitoring of Site Development	Public Works/ Inspection Engineer	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. The pace of private development has slowed significantly in the past 3 years with the downturn in the economy. Developers of new projects approved in the last year 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. All inspections have remained in-house during the past year due to downturn in 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.
Revised					

04-04	Public Information / Pamphlet for Site Developers	Planning/ Conservation Commission	Pamphlet for site developers	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.
Revised			Significant projects are required to have a preconstruction meeting with City staff to outline requirements		
04-05	Encourage Innovative and Low-impact Development Practices	Planning/ Conservation Commission/ DPW	Encourage and promote low-impact development practices during site and subdivision review		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 8 (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 and detention systems 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.
Revised					
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.	Implementation of ordinance continuing as before.
Revised					
Revised					
Revised					

5a. Additions

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.	Under the Willow Brook II grant project, the City is planning future projects including adding a rain garden at the intersection of Charles, Congress and Portland Streets, and possibly the installation of pervious pavement for a section of the City parking lot. Under the grant work began in 2011 on the Habitat for Humanity project.

05-04					Pine Street is scheduled for rebuilding this summer. Included will be an improved drainage system consisting of relining existing drainage piping to prevent groundwater infiltration into the storm water system. Six old shallow catch basins will be replaced with new deep sump types. Brock St. project will have over 60 deep sump catch basins and a vortech unit.
05-05					Completed Phase I of the Colonial Pines subdivision drainage project. Over 4,000 feet of new buried drainage pipe installed and has significantly decreased storm water run off in this large development. Phase II to start summer 2012.

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 8 (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. Vac-Con went down in late fall 2008. City appropriated over $80K to perform a mid-life total rehabilitation of this vital piece of equipment during winter months of 2008. The program has continued this year.	Continue as previously. City is maintaining Vortechnics units on a recurring schedule as well as upstream catch basins. Focus on routine maintenance of Vortechnic units (May and November).
Revised		Public Works/ Highway/Fleet Supervisor			
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.
Revised		Public Works/ Highway/Fleet Supervisor			

Revised					

6a. Additions

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. Also received training from outside trainers (e.g. Primex, loss prevention organization), about environmentally responsible work practices.	Will continue to participate in regional training opportunities as they become available.

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
	N/A				
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment – Waste load allocation for the Cocheco River of 4.5 mg/L of nitrogen was proposed by the New Hampshire Department of Environmental Services in March 2009. City is currently evaluating the impact of this proposal. It has not been adopted as of this point. City plans to include BMPs to meet that requirement as part of the Stormwater Management Plan that will be required for the next General Permit.

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	($)	Have $110K of remaining funds in a CIP item that will be spent to develop Stormwater Management Plan for the new permit; an additional $10,000 is appropriated for HHW annually which is shared by NHDES and 8 surrounding communities

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	Est. 1,000+
Stormwater management committee established	(y/n)	No
Stream teams established or supported – Management Committees have been set up for the Cocheco and Isinglass River Watersheds	(# or y/n)	Yes – Cocheco and Isinglass Rivers

Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes – 3,000 ft
Household Hazardous Waste Collection Days		
▪ Days sponsored	(#)	1
▪ Community participation	(%)	<1 percent
▪ Material collected	(tons or gal)	4,046 pounds
School curricula implemented	(y/n)	No

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	90
Estimated or actual number of outfalls	(#)	438
System-Wide mapping complete	(%)	90 – w/in urbanized areas

Mapping method(s)		
▪ Paper/Mylar	(%)	50
▪ CADD	(%)	
▪ GIS	(%)	90
Outfalls inspected/screened	(# or %)	95 percent of those identified
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	Approx 40
% of population on septic systems	(%)	Approx 60

Construction

Number of construction starts (>1-acre)	(#)	3
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100 percent
Site inspections completed	(# or %)	100 percent
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and $)	0
Complaints/concerns received from public	(#)	Less than 15

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	100 percent immediately following construction
Estimated volume of stormwater recharged	(gpy)	Undetermined

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Less than 1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1-2
Total number of structures cleaned	(#)	More than 250
Storm drain cleaned	(LF or mi.)	Not recorded
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	Approximately 200 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	($)	0 – Landfill Host Community

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	6
Qty. of sand/debris collected by sweeping	(lbs. or tons)	Approximately 200 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	($)	0 – Landfill Host Community
Vacuum street sweepers purchased/leased	(#)	Own 2, 0 this year

Vacuum street sweepers specified in contracts	(y/n)	Sometimes on municipally managed projects in urban areas

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	No meaningful reduction
▪ Herbicides	(lbs. or %)	No meaningful reduction
▪ Pesticides	(lbs. or %)	No meaningful reduction

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	Varies according to storm Varies according to storm
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes
Automatic or Zero-velocity spreaders used	(y/n)	No
Estimated net reduction in typical year salt application	(lbs. or %)	Not meaningful
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	New 5,040-square-foot salt shed completed 11/08