

Municipality/Organization: Town of Salem, New Hampshire

EPA NPDES Permit Number: NHR041031

**Annual Report Number
& Reporting Period:** Year 9: April 1, 2011 – March 31, 2012

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

Part I. General Information

Contact Person: Richard Russell **Title:** Director of Public Works

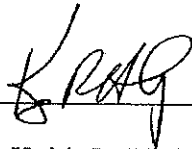
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Mailing Address: Public Works, 21 Cross Street, Salem, New Hampshire 03079

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: _____



Printed Name: Keith R. Hickey

Title: Town Manager

Date: _____

4/23/12

Part II. Self-Assessment

The Town of Salem has completed the required self-assessment and has determined that our municipality is generally in compliance with the conditions of the permit. See Part III for status of BMPs.

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 – Permit Year 10 (if applicable)
1-1	Maintain Existing Watershed Signs at Canobie Lake	Dept. of Public Works	Maintain signs throughout permit term	New watershed signs were put up around Canobie Lake during the 7 th permit year. These signs were maintained during Year 9.	Continue to maintain watershed signs around Canobie Lake.
1-2	Broadcast Informational Stormwater Video on Local Television	Engineering Department	Broadcast video annually beginning with Permit Year 2	A stormwater video was broadcast on local television during Permit Year 9 and aired 84 times on various dates between March 16, 2011 and July 27, 2011.	Continue to broadcast stormwater videos on the local cable access channel.
1-3	Develop Stormwater Brochure Brochure Available for Distribution	Engineering Department Engineering Department	Develop brochure by May 1, 2005 Make brochure available at Town Hall and DPW by May 1, 2006 and distribute to students annually in Permit Years 3 through 5	Copies of the EPA pamphlet/fact sheet “Protecting Water Quality from Urban Runoff” are available at the Town Hall front desk and at the DPW.	Continue to make copies of the EPA pamphlet/fact sheet “Protecting Water Quality from Urban Runoff” available at Town Hall and the DPW.
1-4	Stormwater Information added to Engineering Department’s website Maintain/update information on Engineering Dept. Website	Engineering Department Engineering Department	Stormwater information added to Engineering Department website by May 1, 2005 Update/maintain website during Permit Years 3 through 5	BMP Completed. The Town continued to maintain/update links to stormwater resources on the Town’s website.	BMP Completed. Continue to maintain/update links to stormwater resources on the Town’s website.
1-5	Identify locations for 3 kiosks with stormwater bulletins Design Kiosks Install Kiosks Maintain Kiosks	Dept. of Public Works Engineering Dept. Dept. of Public Works Dept. of Public Works	Identify location for kiosks by May 1, 2004 Complete design of kiosks by May 1, 2005 Install kiosks by May 1, 2006 Maintain/update kiosks during Permit Years 4 through 5	BMP Completed. BMP Completed. BMP Completed. Two kiosks were maintained at Canobie Lake and Hedgehog Pond during Permit Year 9. Copies of the EPA pamphlet/fact sheet “Protecting Water Quality from Urban Runoff” are available at each kiosk.	BMP Completed. BMP Completed. BMP Completed. Continue to maintain kiosks at Canobie Lake and Hedgehog Pond and update kiosks with new stormwater information.
1-6	Approach Private Beaches and Mall at Rockingham Park about Installing Informational Kiosks Coordinate Kiosk Installation if Approved	Dept. of Public Works Dept. of Public Works	Approach private beach by May 1, 2006 Kiosk installed within one permit year upon receiving approval	The Salem Fire Dept. pursued funding to build additional kiosks at private beaches and Rockingham Park. However, the Fire Dept. was unable to secure the grant they were pursuing.	Continue to explore funding opportunities for building additional kiosks.

2. Public Involvement and Participation

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 – Permit Year 10 (if applicable)
2-1	Comply with State Public Notification Guidelines	Planning Board and other Town Departments	Post notices on all applicable meetings	The Town continued to comply with the required state meeting notification guidelines.	Continued compliance with the required state meeting notification guidelines.
2-2	Publicize and Maintain Public Complaint Hotline and DPW Website	Dept. of Public Works	Maintain hotline and continue to respond to complaints from website	During Permit Year 9, the Town continued to maintain a hotline on their website to respond to public work order requests. Work order requests go directly to DPW. The Town logs and tracks all work order requests. In 2011, the Town responded to 927 work orders.	Continue to maintain a hotline on the Town website to respond to public work order requests. Continue to log and track all work order requests.
2-3	Hold Annual Household Hazardous Waste Day	Dept. of Public Works	Household hazardous waste collection day held each year. Amount of household hazardous waste collected.	The Annual Household Hazardous Waste Collection Day was held on Saturday, September 10 th , 2011. Hazardous household waste consisting of corrosive liquids, batteries, flammable aerosols and liquids, solid and liquid pesticides, mercury devices, antifreeze, asbestos, waste oil and latex and oil based paint were collected.	The Annual Household Hazardous Waste Collection Day is scheduled for Saturday, September 8 th , 2012.
2-4	Continue Mandatory Recycling Program	Dept. of Public Works	Continue existing recycling program throughout permit term.	The recycling program was maintained throughout Permit Year 9. Approximately 2,142 tons of recyclables were collected in 2011.	Continue existing recycling program.
2-5	Schedule Annual Town Roadside Litter Clean-up Day	Dept. of Public Works	Schedule clean-up day annually. Amount of roadside litter collected and properly disposed	The Town held their Annual Roadside Litter Clean-up from April 2 nd through April 6 th , 2012. The clean-up covered 59 roadways and approximately 3.7 tons of trash was collected town-wide. The Town also held a Roadside Litter Clean-up in December 2011 due to the mild winter. This clean-up covered 13 roadways and 1.4 tons of trash was collected.	Continue to hold an Annual Roadside Litter Clean-up event in March or April of 2013.

3. Illicit Discharge Detection and Elimination

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 – Permit Year 10 (if applicable)
3-1	Continue inspection of new/updated sewer connections	Dept. of Public Works	Continue inspection of all new/updated sewer connections. Number of sewer connections inspected.	The Town inspected 24 new/updated sewer connections during Permit Year 9.	Continue inspection of new/updated sewer connections.
3-2	Identify Priority Areas	Dept. of Public Works	Priority Areas identified by May 1, 2004	BMP Completed.	BMP Completed.
3-3	Map Outfalls/Receiving Waters	Dept. of Public Works	Map completed by May 1, 2007	The Town-wide mapping of outfalls, drain manholes, and catch basins in GIS is complete. This work was completed as part of the Town's Stormwater Inventory and Assessment Project.	The Town will continue to keep their GIS drainage mapping up-to-date, mapping new drainage structures in GIS as a result of new construction.
3-4	Complete Dry Weather Screening of Outfalls	Dept. of Public Works	One round of outfall screening completed by end of permit term	Dry weather screening of outfalls was completed as part of the Stormwater Inventory and Assessment Project. Screening was conducted in conjunction with GIS mapping of outfalls. Samples were collected at four locations where dry weather flow was observed.	BMP Completed. Under the new permit, the Town plans to complete additional dry weather screening of outfalls, which includes revisiting those outfalls where the dry weather criteria may not have been met on the day of inspection.
3-5	Stormwater Ordinance	Dept. of Public Works	Draft stormwater ordinance/amendment language by May 1, 2007	The Town's existing municipal code prohibits illicit discharges to the storm drain system and outlines procedures and penalties for violations.	Under the new permit, the Town will amend their existing regulations as needed to meet the requirements of the new permit.
3-6	Develop and Implement System for Elimination of Illicit Discharges	Dept. of Public Works	Based on prioritized results in BMP#3-4, determine procedures to identify and remove illicit connections to drain; maintain records.	The Town developed a draft written protocol for identifying and removing illicit connections as part of their Stormwater Inventory and Assessment Project.	Under the new permit, the Town plans to finalize the written protocol they developed for identifying and removing illicit connections.

4. Construction Site Stormwater Runoff Control

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 – Permit Year 10 (if applicable)
4-1	Continue to Implement Land Use Control Regulations which Require Erosion and Sediment Control at Construction Sites	Engineering Department	Continue to enforce regulations throughout permit term. Number of proposed development plans reviewed each year.	The Town's Land Use Control regulations which require sediment and erosion control at construction sites were enforced during Permit Year 9. In 2011, proposed subdivision and site development plans were submitted for review a total of 146 times. Both initial plan reviews and review of subsequent plan revisions are tracked and included in this total.	Continue to implement Land Use Control Regulations which require erosion and sediment control at construction sites.
4-2	Maintain Procedures for Site and Subdivision Plan Review	Engineering Department	Continue to enforce regulations throughout permit term. Number of site and subdivision plans reviewed each year.	The Town has procedures in place for certain departments and/or boards to perform site and subdivision plan reviews. Water quality impacts are assessed as part of these reviews. These procedures were enforced during Permit Year 9. In 2011, proposed subdivision and site development plans were submitted for review a total of 146 times. Both initial plan reviews and review of subsequent plan revisions are tracked and included in this total.	Continue to maintain procedures for site and subdivision plan review.
4-3	Maintain Procedure for Collecting and Responding to Public Comments	Dept. of Public Works	Maintain hotline and continue to respond to complaints from website.	The Town maintained the hotline and continued to respond to public work order requests received via the Town website. These requests now go directly to DPW. All work order requests were logged and tracked.	Continue to maintain the hotline and respond to public work order requests received via the Town website. Continue to log and track all work order requests.
4-4	Maintain Construction Site Inspections for Erosion Control	Engineering Department	Maintain existing procedure throughout permit term. All construction sites inspected each Permit Year.	In accordance with their Land Use Control Regulations, the Town follows the required procedures for inspection of construction sites, which includes enforcing the use of erosion control measures. The Town completed inspections as required for all construction sites in 2011/2012.	Continue to maintain construction site inspections for erosion control.
4-5	Amend Land Use Control Regulations to include Construction Material Management	Engineering Department	Draft Amendment to regulations by May 1, 2005. Implement upon approval.	BMP Completed.	BMP Completed.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
5-1	Maintain Land Use Control Regulations which Require Post-Construction Runoff Control for Construction Sites	Dept. of Public Works, Engineering Dept. & Planning Board	Continue to enforce regulations throughout permit term. Number of proposed development plans reviewed each year.	The Town's existing Land Use Control Regulations establish criteria for stormwater runoff in new developments. The Town continued to follow their existing policies during Permit Year 9. In 2011, proposed subdivision and site development plans were submitted for review a total of 146 times. Both initial plan reviews and review of subsequent plan revisions are tracked and included in this total.	Continue to maintain Land Use Control Regulations which require post-construction runoff control for construction sites.
5-2	Amend Land Use Control Regulations to Require Developers to Submit O&M Plans for Private Structural BMPs	Dept. of Public Works, Engineering Dept. & Planning Board	Draft Amendment to regulations by May 1, 2005. Implement upon approval.	The Town developed and reviewed a draft amendment to their existing Land Use Control Regulations, which would require developers to submit operation & maintenance plans for the long-term maintenance of any private BMPs for stormwater runoff control. This language was taken from the NH Stormwater Manual. O&M notes for individual BMPs were added to plan sets and O&M Manuals are required by the NHIDES as part of the Alteration of Terrain Rules.	Under the new permit expected later this year, the Town will amend their existing regulations as needed to meet the requirements of the new permit.
5-3	Land Use Control Regulations Recommend a Structural BMP Manual for Use by Developers	Dept. of Public Works, Engineering Dept. & Planning Board	Maintain reference to BMP Manual throughout Permit Term.	The Town's Land Use Control regulations reference the "Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire" for use by developers. The reference to this Structural BMP Manual was maintained throughout Permit Year 9.	Maintain reference to Structural BMP Manual.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
6-1	Continue Street Sweeping and Residual Disposal Practices	Dept. of Public Works	Sweep all streets in Town at least once per year	All streets were swept at least once, with some major roadways swept twice. All residuals were disposed of at the Shannon Road landfill where they were monitored and tested.	Continue existing street sweeping and residual disposal practices.
6-2	Continue Catch Basin Cleaning and Residual Disposal Practices	Dept. of Public Works	Clean 33% of catch basins in Town each year. All CBs inspected and/or cleaned on a three rotating schedule.	The Town has 4,234 catch basins and approximately a third of these catch basins were cleaned over the past year. The Town generally cleans 1/3 of their catch basins per year for two consecutive years, and then all catch basins are cleaned the third year. A vactor truck is used to clean catch basins in flood prone areas. All residuals are disposed of at the Shannon Road landfill where they are monitored and tested.	Continue existing catch basin and residual disposal practices.
6-3	Continue Salting and Snow Removal Practices	Dept. of Public Works	Continue existing practices throughout Permit Term	Over the past few years, the Town has been trying to secure state approval and funding of their "Scope and Plan" for Salt Mitigation, which includes construction of a sand/salt storage shed and the purchase of new equipment. (Currently, three of the fifteen salt trucks that the Town has are equipped with ground control spreaders.) The Town has had various meetings with the state in the last few years, and right now the project is still on hold. It does not look like the Town will be receiving any funding for this project from the state.	Since the Town is unable to secure state funding of the "Scope and Plan" for Salt Mitigation, which includes construction of a sand/salt storage shed, the Town is trying to budget to complete this work themselves in the future.
6-4	Continue Vehicle Maintenance Practices	Dept. of Public Works	Continue existing practices throughout Permit Term	Municipal vehicle maintenance is performed within the DPW garage. Practices include reducing the amount of solvents/chemicals used through recycle/reuse, using alternative products whenever possible, and having absorbing compounds available for employee use in the event of a spill.	Continue to follow existing vehicle maintenance practices.

6-5	Continue Vehicle Washing Practices	Dept. of Public Works	Continue existing practices throughout Permit Term	<p>Municipal DPW vehicles are currently washed over a leaching basin. The vehicles are washed with water only or biodegradable soap.</p> <p>The Town has still been trying to secure state approval and funding of their "Scope and Plan" to construct a new truck wash down area. They have had various meetings with the state, and right now the project is still on hold. It does not look like the Town will receive any funding for this project from the state.</p>	<p>Since the Town is unable to secure state funding of the "Scope and Plan" to construct a new truck wash down area, the Town is trying to budget to complete this work themselves in the future.</p>
6-6	Continue Maintenance Activities at Parks & Open Space	Dept. of Public Works	Continue existing practices throughout Permit Term	<p>The Town uses organic fertilizers and does not employ the use of any pesticides.</p>	<p>Continue to use organic fertilizers when performing maintenance activities within parks and open space.</p>
6-7	Continue Hazardous Waste Storage and Employee Training	Dept. of Public Works	Continue existing practices throughout Permit Term	<p>The Town's practices include proper storage of hazardous materials, and the Fire Department has a spill prevention and response plan. The DPW recently upgraded their storage cabinets, putting in non-flammable cabinets, to hold hazardous materials. They also recycle waste oil and meet oil storage requirements. From time to time, the Fire Dept. also completes hazardous materials management training for other departments.</p>	<p>Continue to follow the Town's existing practices including proper storage of hazardous materials, and implementation of the spill prevention and response plan at the Fire Dept.</p>
6-8	Develop/Implement Employee Education Program	Dept. of Public Works	4 hours of stormwater related training during permit term for each appropriate employee	<p>On May 25, 2011, four town employees attended a road drainage and culverts class during Permit Year 9. This class was held at the Derry Municipal Center and was provided by the University of New Hampshire's Technology Transfer Center.</p>	<p>The Town will continue to explore opportunities to provide stormwater related training to their employees.</p>

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

There are currently three approved TMDLs which apply to Salem:

- One is for Policy-Porcupine Brook, which is impaired for chloride. Identified sources of chloride to Policy-Porcupine Brook include water softeners (2%), food waste (1%), atmospheric deposition (1%), state roads (9%), municipal roads (27%), private roads (3%), parking lots (50%), and salt piles (7%).
- Another is the New Hampshire Statewide Bacteria TMDL, which includes 387 bacteria-impaired waters on NH's 2008 303(d) list. In Salem, these waters include Captain's Beach and Camp Otter Swim Area at Captains Pond, where the impairment is for e-coli.
- The last one is the Bacteria-Impaired Waters TMDL, which includes 58 bacteria-impaired waters on NH's draft 2010 303(d) list. In Salem, these waters include the Arlington Mill Reservoir and Millville Lake. Again, the impairment here is for e-coli.

Many of the BMPs that the Town is currently implementing as part of their Stormwater Management Program meet these approved TMDLs. These include BMP #1-3, 2-2, 3-1, 3-4, 3-5, 3-6, 6-1, 6-2 and 6-3. In addition, the Town has also implemented the following BMPs which are aimed at meeting the TMDL Waste Load Allocations:

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 – Permit Year 10 (if applicable)
7-1	Involve Watershed Groups: Arlington Pond Protective Assn., Millville Lake Protective Assn., Captains Pond Protective Assn.	Local Groups & Dept. of Public Works	Continue to hold regular meetings and disseminate information to the public	During Permit Year 9, the Arlington Pond Protective Association, the Millville Lake Protective Association and the Captains Pond Protective Association remained active in improving the water quality of the Arlington Mill Reservoir, Millville Lake and Captains Pond. They participated in clean-ups. The Millville Lake Protective Association also includes information on their website telling residents to maintain their septic systems and pump them every 3 to 5 years, and to not feed ducks or other waterfowl that could contaminate the lake. The Captains Pond Protective Association has been involved in the Volunteer Lake Assessment Program and they continually track water quality and watershed development around the pond.	These local protective associations will continue to remain active in educating the public and improving water quality.
Revised					

7a. Additions

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7b. WLA Assessment

The Waste Load Allocations for Policy-Porcupine Brook, as included in the Final TMDL and as they relate to Salem, are as follows:

Source	FY07 Salt Imports (tons salt/yr)	Allocation of Loads (tons salt/yr)
Municipal Roads	1,247.9	997.9
Private Roads	119.6	95.6
Parking Lots	2,379.1	1,902.5
Salt Piles	315.2	0.0

The Waste Load Reductions for Bacteria Impaired Waters, as included in the Final TMDL and as they relate to Salem, are as follows:

Waterbody	% Reduction in E. coli to meet TMDL	
	Geometric Mean	Single Sample
Captain Pond – Captain’s Beach	complies	1%
Captain Pond – Camp Otter Swim Area Beach	51%	No data
Arlington Mill Reservoir – Second St. Beach	complies	65%
Millville Lake – Town Beach	25%	63%

The Town is making progress in meeting the Waste Load Allocations and Waste Load Reductions identified above through implementation of existing BMPs identified herein.

Part IV. Summary of Information Collected and Analyzed

The only additional information that has been collected outside of what was listed in Part III above includes sampling at outfalls that collect stormwater runoff from the Shannon Road landfill. Samples are collected quarterly at up to 10 outfalls during major rain events. Samples are analyzed for TSS.

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, 2011 through March 31, 2012)

Programmatic

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

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	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		
<ul style="list-style-type: none"> ▪ days sponsored ** ▪ community participation ** ▪ material collected ** 	(#) (# or %) (tons or gal)	1
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	(%)	98%
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	98%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	98%
Outfalls inspected/screened **	(# or %)	98%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	98%
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	(%)	40%
% of population on septic systems	(%)	60%

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)	1/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)	landfill

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)	1/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)	landfill
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)
	100%

(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	% NaCl % CaCl ₂ % MgCl ₂ % CMA % K _{ac} % KCl % Sand
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	
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 %)
	20% of spreaders

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
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n