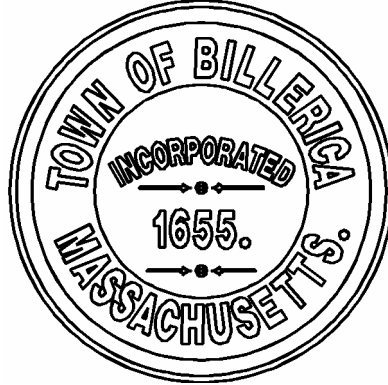


Town of Billerica



NPDES PII Small MS4 General Permit Annual Report (MA041182) (W-040980)

YEAR 4

Prepared by:
**The Town of Billerica
Department of Public Works
Engineering Division
365 Boston Road
Billerica, Massachusetts 01821**

Municipality/Organization: Town of Billerica

EPA NPDES Permit Number: MA041182

Mass DEP Transmittal Number: W-040980

Annual Report Number

& Reporting Period: No. 4: April 1, 2006 – March 31, 2007

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2007)

Part I. General Information

Contact Person: Kelley Conway

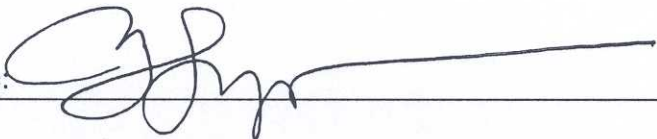
Title: Town Engineer

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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: 

Printed Name: Rocco Longo

Title: Town Manager

Date: April 26, 2007

Part II. Self-Assessment

The Town of Billerica has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1.3.1	Partner with local organization	Engineering	Partner with one organization each year.	Continued support with SuAsCo. Partnered with Central Massachusetts Mosquito Control Project.	Continue support and assist in the development of outreach material with SuAsCo. Revisit partnering with O.A.R. for employee training or other activities.
Revised					
1.3.2	Public Education Materials	BOH	Stormwater brochure and booth at Health Fair	A variety of brochures are available at various offices around town (Water Dept, Conservation, DPW, BOH). Provided informational handout regarding Billerica Compost program to residents. Stormwater info included in annual water report and distributed to all town residents and businesses. Received business brochure from SuAsCo.	Participate at Health Fair. Update stormwater display and pamphlets at various offices. Develop and distribute brochure as part of by-law development.
Revised		BOH & DPW	Stormwater brochures available at Town offices and booth at Health Fair		
1.3.3	Local schools education program	School Dept.	Present stormwater to two schools each year.	Spoke with representative from Department of Education. Gave them SuAsCo 5 th /6 th Grade curriculum package to review.	Implement classroom outreach to 5 th & 6 th grade classes using curriculum developed in BMP 1.3.1 This may not be feasible due to curriculum & schedules.
Revised					
1.3.4	Stormwater Web Page	Engineering	Develop stormwater web page	Stormwater web page in place. Updated web page and added additional links and information. Annual Report available for viewing	Continue to update web page and add additional links and information.
Revised					
1.3.5	Cable Access TV Show	BOH	Select a stormwater program for viewing on Billerica Access TV.	Obtained VHS copy of <i>After the Storm</i> from National Service Center for Environmental Publications and had it played on Billerica Access TV multiple times.	Review other available videos or resources for use on Billerica Access TV.
Revised		Engineering			

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1.3.6	Public Access GIS Tool	Engineering	Provide public access to maps of streams, rivers, storm drains and water quality data by Year 5.	Hired GIS Analyst to coordinate the implementation of Web GIS for public use.	Provide public access to maps of streams, rivers, storm drains and water quality data by Year 5 (if sufficient funding is available).
Revised					
1.4.1	Stormwater flyer to residents	SuAsCo & DPW	No Goal(s) for Yr. 4	N/A	N/A
Revised					
1.4.2	Stormwater lesson plan	SuAsCo & DPW	No Goal(s) for Yr. 4	N/A	N/A
Revised					
1.4.3	Stormwater flyer to businesses	SuAsCo & DPW	Stormwater flyer to 50% of Town businesses	Year 3 product changed by SuAsCo Received Media Toolkit in April 2006. Hung “ <i>Stormwater Matters</i> ” banner at Town Hall. Information from Toolkit included in annual water report and distributed to town residents and businesses.	Present Stormwater Power Point Program to public.
Revised	<i>Media toolkit and stormwater PowerPoint program</i>		<i>Media Packet to local Media</i>		
1.4.4	Stormwater media campaign	SuAsCo & DPW	Media Packet to local Media	Year 4 product changed by SuAsCo Received Stormwater Business Flyer and Storm Drain Marking Kits in March 2007.	Print and distribute business flyer to local businesses. Implement storm drain marking program.
Revised	<i>Business Flyer & Storm Drain Marking</i>		<i>Stormwater flyer to 50% of Town businesses</i>		
1.4.5	Stormwater video	SuAsCo & DPW	No Goal(s) for Yr. 4	N/A	Show stormwater video at public meeting and/or cable station if available from SuAsCo.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2.3.1	Partner / Support a Watershed Organization	Engineering	Partner with one local organization each year.	Continued partnership with SuAsCo.	Continue partnership with SuAsCo. Revisit partnering with O.A.R. for employee training or other activities.
Revised					
2.3.2	Storm drain stenciling program	Engineering	Develop & Implement drain stenciling program	Looked at alternatives to stenciling. Received Drain Marking kits from SuAsCo.	Implement drain marking program.
Revised			<i>Develop & Implement drain marking program</i>		
2.3.3	Stormwater Public Meetings Program	Engineering	Discuss stormwater at one or more public meeting each year	Stormwater issues discussed at meetings held on Michael Road and Cook Street/Alexander Road projects.	Continue to invite public discussion of stormwater at public meetings.
Revised					
2.3.4	Recognition Programs	DPW	Recognize one stormwater savvy business each year	Determined this was an unfeasible BMP due to lack of long term interest and funding.	Plan to meet intent of this BMP through 2.3.7 and 1.4.4 (stormwater business flyer)
Revised	<i>Substitute 2.3.7</i>		<i>Substitute 2.3.7</i>		
2.3.5	Recreation Department Public Education Program	Engineering	Involve Recreation Department in stormwater public education program each year.	Met with Recreation Director to discuss ways to include stormwater into recreation activities. Continued involvement in the Lampson Field renovations project.	Continue to involve recreational department and identify opportunities for public involvement.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2.3.6	Annual “Clean the Stream” program	Recreation	Recruit volunteers for each years’ stormwater cleaning effort	Held annual Town wide “Green-up” and Town wide “Clean-up” events. Contracted with the Commonwealth of Massachusetts Middlesex Sheriffs Office for assistance with cleaning and preparations of parks, playgrounds, and beach. Contracted with Central Massachusetts Mosquito Control Project to clean 6,845’ of streams.	Continue annual Town wide “Green-up” and Town wide “Clean-up” events. Continue affiliations with Central Massachusetts Mosquito Control Project.
Revised					
2.3.7	Develop Stormwater By-Law Advisory Group	Stormwater By-Law Working Group	Hold 1 or more meetings with Advisory Group	The Working Group identified a diverse group of local stakeholders to participate in development of the new Stormwater By-law.	Invite local stakeholders and businesses to 1 or more meetings to provide input on the Draft & Final Stormwater Management By-law.
Revised					
2.4.1	Stormwater traveling display	SuAsCo & DPW	No Goal(s) for Yr. 4	Maintained stormwater display and pamphlets at Town Hall.	N/A
Revised					
2.4.2	Stormwater poster contest	SuAsCo & DPW	Poster contest winners selected	N/A	N/A
Revised	<i>Year 3 product eliminated by SuAsCo</i>				
2.4.3	Stormwater photo contest	SuAsCo & DPW	Photo contest advertised	N/A	N/A
Revised	<i>Year 3 product eliminated by SuAsCo</i>				
2.4.4	Stormwater summit special event	SuAsCo & DPW	Promote stormwater summit	Reviewed “Stormwater Matters” PowerPoint and Media Toolkit.	Plan to hold stormwater public hearing as part of by-law adoption process.
Revised					
2.4.5	Stormwater super summit	SuAsCo & DPW	No Goal(s) for Yr. 4	N/A	Host or attend watershed wide super summit if coordinated by SuAsCo.
Revised			<i>Host or attend watershed wide super summit</i>		

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3.4.1	Asset Management Program	Engineering	Develop stormwater Asset Management program.	The Asset Management Implementation Plan for all of Billerica's infrastructure was completed in March 2005. Reviewed stormwater portion of the plan. Funding not available to implement Year 1 actions.	Pursue funding to incorporate Year 1 tasks (Develop stormwater infrastructure inspection program; Develop complaint tracking system) into capital improvement planning. There are no additional Actions planned for Year 2 of the Asset Management Plan.
Revised					
3.4.2	Storm Drain Map	Engineering	GPS field effort of drainage structures.	Continue to verify accuracy and completeness of consultant's drain map. Efforts not complete. Hired GIS Analyst to continue with this effort.	Pursue funding to continue efforts.
Revised					
3.4.3	TMDL, Critical Habitat, Historic Property	Engineering	Monitor changes in TMDL, Critical Habitat & Historic Site	Continued to monitor changes in TMDL, critical habitats, and historic sites.	Continue to monitor changes in TMDL, critical habitats, and historic sites. Create a plan to meet load allocations in the <i>Final TMDLs of Bacteria for Shawsheen River Basin</i> report. (Also see 7.2.1)
Revised					
3.4.4	Stormwater By-Law	Board of Health	Develop stormwater requirements regulated by Board of Health	Continued working with consultant and Working Group to develop stormwater by-law and changes to Board of Health Regulations.	Submit By-law to Town Meeting for adoption and Implement.
Revised					
3.4.5	Illicit Discharge Detection Program	DPW	Develop phased illicit discharge detection program.	Pursued funding and worked with Woodard & Curran to develop and implement illicit discharge detection program.	Continue program to find illicit discharges.
Revised					
3.4.6	Illicit Discharge Elimination Program	DPW	Enforce stormwater regulations to correct detected illicit discharges	By-law not adopted yet (BMP 3.4.4). Drafted procedure for identifying illicit discharges.	Enforce stormwater regulations to correct detected illicit discharges
Revised			Enforce illicit discharges by-law		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3.4.7	Resident education program	DPW	Develop and distribute fliers defining illicit discharges and summarizing the Town Stormwater Regulations	N/A. Dependent on progress of 3.4.5.	Public education for adoption of stormwater by-law to incorporate information regarding illicit discharges.
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4.2.1	Regulatory Controls	Board of Health	Develop “Erosion & Sediment Control” by-law	Erosion and sediment control has been incorporated into the draft Stormwater Management By-law.	Review and finalize erosion & sediment control regulations. Present stormwater by-law for adoption at fall town meeting.
Revised					
4.2.2	Review and site inspection procedures	Board of Health	Sanctions developed and included in regulations to ensure compliance	Included review and site inspection procedures in the draft Stormwater Management By-law.	Review and finalize guidelines. Present stormwater by-law for adoption at fall town meeting.
Revised					
4.2.3	Enforcement procedures	Board of Health	Develop and implement enforcement procedures and sanctions for stormwater violators	Enforcement procedures and sanctions for stormwater violators are part of the draft Stormwater Management By-law.	Review and finalize guidelines. Present stormwater by-law for adoption at fall town meeting.
Revised					
4.2.4	Procedures for Handling Public Comments	Board of Health	Develop & implement public comment procedure	Complaints & comments taken online or through complaint tracking form when received by phone call or over the counter.	Continue development of procedures for receipt and consideration of information submitted by public.
Revised					

DPW

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5.3.1	Structural stormwater controls	Planning Board	Revise subdivision rules and regulations with new BMP's	N/A. Completed Year 2.	N/A
Revised					
5.3.2	Zoning Requirements	Zoning Board	Evaluate Zoning By-laws	Reviewed all local regulations to determine where improvements might be made. Developed draft Stormwater Management By-law.	Review and finalize guidelines. Present stormwater by-law for adoption at fall town meeting.
Revised	<i>Local By-Laws</i>	<i>Stormwater By-Law Working Group</i>	<i>Develop General By-Law</i>		
5.3.3	Planning Strategies	Engineering	Review Current Town Master Plan	Continued review of the current Master Plan as it pertains to stormwater.	Continue review of the current Master Plan as it pertains to stormwater.
Revised					
5.3.4	Conditions for private stormwater systems	Engineering	Develop maintenance requirements for private stormwater systems	Maintenance requirements for private stormwater systems have been incorporated into the Stormwater Management By-law.	Present stormwater by-law for adoption at fall town meeting.
Revised					
5.3.5	Stormwater infrastructure inspection program	Engineering	Develop technology based inspection program	Since AM Program BMP (3.4.1) is not funded, technology based inspection program has been postponed. Provisions for ongoing inspection of private BMP's is addressed in the draft stormwater by-law.	Pursue funding for the development of a technology based inspection program. Present stormwater by-law for adoption at fall town meeting.
Revised					

BOH

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6.3.1	Pollution Prevention Planning	Highway Dept.	Develop a Stormwater Pollution Prevention Plan	Funding not available.	In coordination with Woodard & Curran, develop a Stormwater Pollution Prevention Plan.
Revised					
6.3.2	Employee Training Program	DPW	Implement employee training program	Participated in US EPA Stormwater Webcast: ‘Financing a Municipal Stormwater Program’. Discussed stormwater program with highway superintendent.	Finalize development of a training program and training tracking system for department employees. Implement employee training.
Revised					
6.3.3	Recycling Program	Highway Dept.	Monitor recycling program & enhance if necessary	Annual hazardous waste day and continuously operated oil recycling program available on monthly basis. Investigated DEP grant for rain barrels.	Monitor and enhance recycling program.
Revised					
6.3.4	Catch Basin Cleaning Program	Highway Dept.	Use asset management tool to monitor pounds of sediment removed from Town catch basins	Funding not available for AM tool. Continuous catch basin cleaning by Highway Department. Removed 136 tons of debris.	Clean catch basins and monitor pounds of sediment removed.
Revised			<i>Clean catch basins each year and monitor pounds of sediment removed.</i>		
6.3.5	Street Sweeping Program	Highway Dept.	Use asset management tool to monitor pounds of sediment removed during street sweeping	Funding not available for AM tool. Street sweeping across 500 lane miles by Highway Dept.	Sweep streets each year and monitor pounds of sediment removed.
Revised			<i>Sweep Streets each year and monitor pounds of sediment removed.</i>		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6.3.6	Operations and Maintenance	DPW	Inventory ongoing stormwater maintenance activities	Looking into new location for Highway Department. Inventory ongoing stormwater maintenance activities.	Develop measures to reduce sources of pollutant runoff and continue to inventory ongoing stormwater maintenance activities. Address this in SWPPP (BMP 6.3.1).
Revised					
6.3.7	Reporting	DPW	Continue to track stormwater management activities and submit annual report	Continued to track stormwater management activities and submitted annual report.	Continue to track stormwater management activities and submit annual report.
Revised					

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6.3.8	Mosquito Control Project & Drainage System Maintenance	Engineering	Record of improved drainage system inspection and maintenance.	Through the efforts of the Central Massachusetts Mosquito Control Project, brush and other accumulated debris was removed from culverts and streams.	Continue with Mosquito Control Program.
Revised					

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
7.2.1	Monitor Current Impairment Lists	DPW	Continue to monitor TMDL studies annually and develop programs as appropriate.	Continued to monitor TMDL studies.	Continue to monitor TMDL studies annually and develop programs as appropriate. Create a plan to meet load allocations in the <i>Final TMDLs of Bacteria for Shawsheen River Basin</i> report. (Also see 7.2.1)
Revised					

7b. WLA Assessment

N/A

Part IV. Summary of Information Collected and Analyzed

N/A

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, 2006 through March 31, 2007)

Programmatic

		Response
Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures **	(Preferred Units)	\$ 122,726
Total program expenditures since beginning of permit coverage	(\$)	\$ 695,656
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Town Meeting Appropriation

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	1.3 mi
Shoreline cleaned since beginning of permit coverage	(mi.)	>3.1 mi
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	12
▪ community participation **	(# or %)	455
▪ material collected **	(tons or gal)	1820 gal
Oil		13 containers
Flammables		3 containers
Oxidizers		4 containers
Pesticides		3 containers
Corrosives		11 containers
Other		1 container
Mercury		
School curricula implemented	(y/n)	Partial

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft Review	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				X	
▪ Erosion & Sediment Control				X	
▪ Post-Development Stormwater Management				X	

Mapping and Illicit Discharges

		Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(Preferred Units)	467
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS (Note: 86% of structured located with GPS. 14% converted to GIS from existing maps.)	(%)	100
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	60
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	4 potential
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	72
% of population on septic systems	(%)	28

Construction

		Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(Preferred Units) (%)	
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)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	1,288
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	136 ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	35,000
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$24.82 per basin
• Disposal cost**	(\$)	Included in above cost
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	2
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	No
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vector **	(%)	0

Response

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) (Preferred Units)	1-2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	Not available
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill (BFI)
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	n/a
• Disposal cost**	(\$)	n/a
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	2
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

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)	

		Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	(Preferred Units)	
	% NaCl	99.5%
	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	0.5%
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	No
Zero-velocity spreaders used **	(y/n or %)	Yes
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l ⁿ mi. or %)	n/a
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l ⁿ mi. or %)	n/a
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	No (In place)
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	No
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	No
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No