



TOWN OF STOUGHTON, MASSACHUSETTS
ENGINEERING DEPARTMENT

NPDES PII Small MS4 General Permit – Year 8

Part II. Self-Assessment

While no specific activities were scheduled for Year 8 of the permit term, the Town of Stoughton has continued to focus efforts on minimum control measures that were slated for the entire permit term, such as holding regular Stormwater Committee meetings, posting public meetings in accordance with MGL Section 23B, and including Stormwater related controls and review of construction documents, and in site inspection. The Town also continues to perform Good Housekeeping Best Management Practices as part of ongoing operation and maintenance of facilities, roadways, storm drains and open spaces.

Town of Stoughton has agreed to partnership with the Neponset River Watershed Association (NepRWA) as the Town moves forward in compliance with the new MS4 permit. The Town anticipates that NepRWA will provide assistance in the stormwater monitoring and sampling aspects of the regulations

Town of Stoughton is assisting NepRWA, as they seek ways and means of constructing stormwater management facilities throughout the Town and Neponset River watershed.

Household Hazardous Waste Days was held. Public was strongly educated and involved in many committees involving maintaining and protecting wetland areas and protecting Earth were shaped and have been working closely with the Town officials to better protect Stoughton.



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Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
1.1	Classroom education (Modified to Assemblies in Year 4)	Engineering Department	Make presentation to Elementary & Middle Schools. For Year 5, provide education materials to schools, coordinate with school superintendent	Permit Term	Presentations were made to Middle School during Years 2 and 3. In Year 5, the Engineering Department provided schools with stormwater materials to incorporate with materials. In Year 8, Engineering Department conducted one day seminar at the High School Science Class
1.2	Prepare Stormwater Video (Modified to TV appearance Year 4)	Engineering Department, High School Students	Stormwater Video "After the Storm" aired on local access television	Year 1	Two appearances in stormwater forums (summer 2007, one in fall 2007); "After the Storm" aired on local cable access television in spring 2008.
1.3	Stencil specified storm drains	Public works Department (PWD)	Identified individual watersheds	Year 1-3	Catch Basins Stenciled (Year 2-4); Complete. Stencils were checked and re-painted as necessary during Year 6.
1.4	Create Stormwater Fliers	Engineering Department	Install stormwater posters and brochures in public buildings	Year 3 - Ongoing	Stormwater posters continue to be displayed in Town Hall; brochures are available at Town Hall and Library.
1.5 New	Educational signage at high-use recreational areas	Conservation Commission, Recreation Dept., Public Works Dept.	Install signage at Town beach	Year 8	Install signage at Town beach. Maintain signs as needed.
1.6 New	"No-Dumping" Signs	Conservation Commission, Public works Department	Installing "No-Dumping" Signs in all major watershed areas	Year 8	Signs were installed in all major watershed areas.
1.7 New	Earth Day	Conservation Commission, Public works Department	Generate public awareness to prevent non-point source pollution in the watershed and water conservation	Year 6- Ongoing	Educational presentations by qualified environmental professional. Fliers and brochures provided by DEP were handed out. Mass division of fish and wild life provided information on protecting vernal resources areas



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1.8 New	Collecting and storing of roof generated runoff for domestic irrigation (Rain Barrel)	Conservation Commission	Educating public to collect and store roof runoff for on site irrigation and ground water replenishment. Plans to increase awareness next year by doubling the sale.	Year 8 - 9	Educate public of the benefit for collecting and storing roof generated runoff for domestic irrigation. Sold about 100 units.
1.9 New	Compost Generator	Conservation Commission	Reduce the volume of solid waste by generating compost to improve vegetated cover in yards in the watershed to reduce sediment / nutrient deposition and pollution of surface water bodies and streams	Year 8-9	Educate public of the compost generator and benefits of having non chemical fertilization for yards that will improve vegetation and eliminate pollution to the ground water. Sold about 50 units.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
2.1	Create Stormwater Committee	Selectmen	Creation of Stormwater	Year 1	Created Stormwater Committee (Year 2) consisting of members of PWD, Engineering and Conservation Commission Department. Major focus to identify stormwater related problem areas in Town and develop game plan for correcting problem
2.2	Review NOI	Stormwater Committee	Stormwater goals prioritized and published	Year 1	Technical committee Mission Statement (Year 2); Complete
2.3	Stormwater Committee creates Technical Committee	Stormwater Committee	Technical Committee meetings	Year 2	Create of Committee (Year 2), Town Meeting Article passed (Year 4); Complete
2.4	Technical Committee Rules and Regulations	Technical Committee	Publication of Rules and Regulations	Year 2-3	HAZMAT and Stormwater Bylaws are published in "Code of Town of Stoughton" and are available on Town's website. Complete.
2.5	Household Hazardous Waste Day	Conservation Commission, Public Works Dept.	Hold two household hazardous waste collection days per year	Permit Term	Household hazardous waste days held



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	Public Hearing / Meetings Posted	Town Manager / Board of Selectmen	Information on public meetings posted in accordance with MGL Section 23B	Permit Term	Public meeting information has continued to be posted in accordance with MGL Section 23B. Ongoing.
2.6	Ames Pond Citizens Committee	Conservation Commission	Form committee to increase awareness and support to restore Ames Long Pond	Year 5	Committee formed to increase awareness of nutrient problem at Ames Pond. Information published on Town website. Committee sponsor and support efforts to mitigate nutrient pollution of Ames pond.
2.7	Harris Pond Citizen Committee (Pinewood Lake Association)	Conservation Commission	Form committee to increase awareness and support to restore Harris Pond	Year 7-9	Committee formed to increase awareness of nutrient problem at Harris Pond. Information published on Town website. Committee sponsor and support efforts to mitigate nutrient pollution of Harris pond
2.8	Pond Maintenance	Conservation Commission	Purchase a hydro rake	Year 8-9	Article submitted to 2011 Annual Town Meeting for purchasing the Hydro Rake
2.9	Outdated/Unwanted Prescription Program	Board of Health, OASIS	Provide an opportunity for residents to dispose of these materials to protect the environment. Plan to hold it twice a year.	Year 8-9	Outdated/Unwanted Prescription Program was held in October.
2.10	Prepared and distribute handout on installation and Maintenance of On-Site Sewage disposal Systems	Board of Health	Educate the public to prevent contamination to the environment and ground water	Year 8 -Ongoing	Educating the public, owners and operators of septic tanks by handing out informational materials.
2.11	Developing and implementing program for removing mercury from the Municipal solid waste stream	Conservation Commission, Public Works Dept.	Developing and implementing program to eliminate elements and mercury from municipal solid waste stream	Year 8 -Ongoing	A program was developed and implemented. Complete.



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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
3.1	Map existing drain facilities in Stoughton	Engineering Department / GIS	Map outfalls and receiving waters	Year 1-3	During Year 5, all outfalls were located with coordinates captured using Geographic Positioning System. The data has been incorporated into the Town-wide GIS to form a stormwater data layer. Complete.
3.2	Create software application for flow direction determination	Engineering Department	Begin mapping outfalls and generate stormwater data layer for Town-wide GIS; research drainage system modeling options	Year 3-4	Hired GIS Coordinator – some data entry from existing plans completed (Year 4). Researched purchase of prepared stormwater system modeling software. Mapped stormwater outfalls. Complete
3.3	Perform closed circuit TV inspection of suspect areas	Public Works Dept.	Inspect and correct problem areas	Year 2-9	Drains Inspected (Year 2-3), replaced failed drainage on Ross Avenue. Cleaned sediment from Red Wing Brook (York Street area) (Year 4). Work performed in 2007 (Year 5): South Street culvert repair, Gay Street equalization pipe, School Street equalization pipe, replace drains on West Street (Year 5)..Approximately half of the Town's public drains have been inspected (Year 6). Additional areas continued to be completed as necessary to investigate flow restrictions or failures during Year 7. Damaged pipes are repaired immediately. Ongoing.
3.4	Create Illicit Connection By-Law	Engineering Department	Stormwater By-Law passed at Annual Town Meeting	Year 3-4	Illicit Discharge Detection and Elimination By-Law adopted (Year 4). Completed.
3.5	Information Distributed on Proper Waste Management	Engineering Department , Board of Health	Provide targeted information regarding proper hazardous waste material disposal directly to local businesses; ensure compliance with local HAZMAT regulation	Year 2-5	Provided brochures from Northeast Waste Management to local businesses, auto body shops, etc.; all related businesses are regulated by the Town's HAZMAT bylaw with oversight by Board of Health



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3.6	Outfall Screening	Engineering Department	Perform inspection of known outfalls	Year 5-8	During GPS of outfalls structures, collected data to create comprehensive database on outfalls. Data collected included structure type/material, presence of dry weather flow, flow characteristics, presence of sediment, etc. Continued to develop the list of outfalls requiring further investigation regarding the potential for illicit discharge during Year 7. Ongoing
3.7	Draft Stormwater Action Plan	Stormwater Committee, Engineering Department	10 Year Plan for Stormwater Management	Year 4	Established revolving fund, passed by-law, enforced erosion control, completed several improvement projects (Year 4). Complete.
3.8	Public and Semi-Public swimming pool back wash discharge	Board of Health	Insure that back wash water is discharged properly in pre-approved location so it does not contaminate the ground water	Ongoing	Public and Semi-Public swimming pool back wash discharge regulations and bylaw
3.9	Floor Drain Regulation	Board of Health	To prevent the discharge of hazardous waste and other pollutants from industrial and commercial establishments to surface and ground water resources	Ongoing	Enforcing the commercial and industrial hazardous waste floor drain regulations
3.10	Hazardous Waste Ground water protection bylaw	Board of Health	Protect public health, preserving and maintaining existing and potential ground water supply and ground water recharge areas.	Ongoing	Enforcing the Hazardous Waste Ground water protection bylaw
3.11 New	Gay Street	Engineering Department, Public Works Dept.		Year 8	Installed deep catch basins - infiltration
3.12 New	Bay Street Culvert	Engineering Department, Public Works Dept.		Year 8	Installed deep catch basins – infiltration – replicated wetland on site. Dry land wild life passage inside both sides of the culvert (reduce pollution from died animals on the street)
3.13 New	Sewer street extension in Central Street	Engineering Department, Public Works Dept.	Eliminate contamination caused by sewerage system in Central Street	Year 8	Design and implement sewer extension in central street that replaced failed septic tanks that were contaminating the ground water due to soil factor



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3.14 New	Installing Curbs	Engineering Department, Public Works Dept.	Eliminate contamination By installing street curbs to contain runoff	Year 8	Installed approximately 9,000 lf of curbing in Canton Street
3.15 New	Implementing the Septic Betterment Program	Board of Health	Replacing failed septic systems, and trying to obtain additional funding to continue the program for next year and beyond	Year 8	Replacing of nine (9) individual septic systems helped eliminate on ground water contamination

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
4.1	Selection of Town owned BMP's	Technical Committee, Engineering Department	Publish standards	Year 3	Published standards (Year 3), Applied to new development under site plan review By-Law. IKEA, Target, Page Place (Year 4). Complete.
4.2	Selection of Stormwater Management Measures	Technical Committee, Engineering Department	Enforced during all construction	Year 3	Enforced during all construction by Conservation Committee (Year 2-3), Bylaw approved at Town Meeting and several orders issued by Conservation Committee (Year 4). Permit is required for new construction. Complete.
4.3	Technical Committee creates Stormwater Erosion Guidelines	Technical Committee	Publish guidelines	Year 2	Publish standards (Year 2-3), By-law approved at Town Meeting (Year 4). Complete.
4.4	Enforcement of Guidelines	Engineering Department, Conservation Commission	Enforced during all construction	Year 4-9	Enforced during all construction by Conservation Commission (Year 2-3), enforcement orders issued, fines imposed (Year 5); No enforcement orders were issued and no fines were imposed during Year 7. Ongoing
4.5	Site Plan Review	Engineering Department, Planning Board, Conservation Commission, Board of Health	Enforce site plan review procedures Or Update site plan review procedures to be consistent with bylaw and prepare checklist of sign-off protocols. Constructions adequately regulated for ESC	Ongoing	Implemented an interim policy for all currently jurisdictional projects that requires Engineering to review and approve ESC plans. Continue to implement interim policy. Ongoing.



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4.6	Site Inspections	Engineering Department, Building Department, Conservation Commission	Implement a site inspection process	Ongoing	Implemented inspection program consistent with bylaw and regulations. Ongoing
4.7	Erosion Control Barrier	Conservation Commission	Enforcing installation and maintenance of erosion control barrier to prevent pollution of near by wetland resource areas and prevent pollution of surface runoff	Ongoing	Enforced by Conservation Commission during all construction activities
4.8	Vegetated Buffer	Conservation Commission	Reduce nonpoint source pollution in watershed of drainage and surface runoff	Ongoing	Enforced by Conservation Commission during all construction activities

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
5.1	Technical Committee to educate plan Board & ZBA	Technical Committee	Identify Needed changes in existing Rules and Regulations/By-Laws	Year 4	By-Law approved (Year 3); Complete.
5.2	Draft required changes	Stormwater Committee	Creation of new By-Laws	Year 4	By-Law approved (Year 3); Complete.
5.3	Ongoing Review of Stormwater Impact	Stormwater Committee	Each project to be reviewed prior to construction	Year 5	Engineering staff on Stormwater Committee continue to participate in comprehensive development site plan review prior to project approval. Ongoing.
5.4	Required Deed restrictions	Boards	Ensure long term maintenance by property owner	Year 4-9	All new site development in Stoughton continues to require post construction stormwater management with operation and maintenance manuals submitted prior to project approval. Ongoing



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5.5	Stormwater management and regulations for sites > 1 acre	Engineering Department, Planning Board, Conservation Commission, Public Works Dept.	Review existing mechanisms for adequacy and completeness.	Ongoing	Regulates constructions and post-construction discharges
5.6	Asbestos Removal	Board of Health	Insure the renovation and demolition of buildings containing asbestos are done without contaminating the ground water	Ongoing	Enforcing asbestos removal regulations and bylaw
5.7	Lead paint Removal	Board of Health	Insure the renovation and demolition of buildings containing Lead paint are done without contaminating the air or ground water	Ongoing	Enforcing Lead paint removal regulations and bylaw

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Duration	Progress on Goal(s) – Permit Year 8
6.1	Catch Basin Cleaning	Public Works Dept.	Prevent Total Suspended Solids discharge	Permit Term	All catch basins in the Urbanized Area have been cleaned an the past year; most are cleaned two times per year, some more frequently based on need. Ongoing.
6.2	Regular street Sweeping	Public Works Dept.	Prevent total Suspended Solids buildup in catch basins and roads	Permit Term	All streets are swept twice per year (Spring and Fall). Problem areas are swept more frequently. Sidewalks and also swept. Ongoing.
6.3	Erosion and sediment control for all projects in Town	Engineering Department	Prevent Total suspended Solids migration to street surfaces	Permit Term	All construction is inspected for erosion and sediment control. Ongoing.
6.4	Inside storage of Hazardous Materials	Public Works Dept., Fire Department, Board of Health	No hazardous material leaks or spills	Permit Term	Fire Department licenses all business handling hazardous materials. Board of Health enforces Aquifer Protection By-Law. New Public Works Garage exceeds standards, has fully updated SPCC plan which is adhered to. All hazardous materials are stored inside. Ongoing.



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6.5	Obtain "No exposure" rating from EPA for Multi-Sector General	Public Works Dept., Fire Department	Obtain "No exposure" rating from EPA	Permit Term	"No exposure" rating obtained. Complete.
6.6	Pesticide-free landscaping practices	Conservation Commission	Require pesticide-free landscaping practices as special requirement in Orders of Conditions	Permit Term	Require Pesticide-free landscaping practices as special requirement in Orders of Conditions.
6.7	Municipal Employee Training	Public Works Dept.	Provide two training sessions to Municipal employees	Year 5	Conducted two training sessions for municipal employees. Topics included NPDES Phase II Stormwater program requirements, the Town's stormwater management plan. Illicit discharge detection and elimination and good house keeping practices. Aired video "After the Storm" for all employees at Town Hall. Complete.
6.8	Street Sweeping	Public Works Dept.	Sweep all streets	Ongoing	Complete annual sweeping. Ongoing
6.9	Create Drainage Map	Engineering Department	Complete Drainage Map	Ongoing	Collect data for drainage map
6.10	Ames Long Pond Hydro-raking Program	Conservation Commission	Examine the feasibility of management of an extensive exotic vegetation problem in Stoughton Ponds.	Year 6	Performed aesthetic pond raking project with oversight by NHESP and other agencies, and turbidity monitoring. Remove the invasive vegetated overgrowth with special machinery to transport the material off-site to local agriculture operations for composite and organic soil fortification to reduce chemical contamination of drainage runoff in the watershed Complete.
6.11 New	Maintain and remove exotic invasive vegetation problems in east basin of Ames Long Pond	Conservation Commission	Developing program for removing an extreme overgrowth of exotic invasive aquatic vegetation	Year 8	Developing program for removing an extreme overgrowth of exotic invasive aquatic vegetation for the east basin of Ames Long Pond
6.12 New	Inside storage of mercury	Public Works Dept.	No mercury pollution	Year 8 - ongoing	A specialized storage shed was built for mercury and other heavy material



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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)	Duration	Progress on Goal(s) – Permit Year 8
7.1	ID all MS4 outfalls	Engineering Department / GIS	All outfalls identified on map	Year 1-3	All stormwater outfalls have been located and incorporated into a layer on the Town-Wide GIS. Complete
7.2	ID all MS4 pollutants	Engineering Department / GIS	Begin screening outfalls for data inventory, outfall condition, dry weather flow and flow characteristics	Year 3-5	All outfall structures have been screened to collect data to create comprehensive database on outfalls. Data collected included structure type/material, presence of dry weather flow, flow characteristics, presence of sediment, et. Developed listing of outfalls requiring further investigation regarding the potential for illicit discharge. Complete.
7.3	Find source of pollutant loading	Engineering Department	Monitor state listing of impaired waters, adjust stormwater management plan accordingly	Year 4-5	There are no currently established TMDLs for receiving waters within the Town of Stoughton. Complete.
7.4	Mitigate pollutant loading	Technical committee and Stormwater committee	Monitor state listing of impaired waters, adjust stormwater management plan accordingly	Year 5	There are no currently established TMDLs for receiving waters within the Town of Stoughton. Complete.
7.5 New	Identify site for BMP's	Engineering Department	Produce plans identifying potential sites	Year 8-9	Working with Neponset River Watershed Association to identify the sites and select BMPs suited for each site

Part IV. Summary of Information Collected and Analyzed

No data has been collected or analyzed yet.



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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		
<ul style="list-style-type: none"> ▪ days sponsored ** ▪ community participation ** ▪ material collected ** 	(#) (# or %) (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					



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<input type="checkbox"/> Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
<input type="checkbox"/> Illicit Discharge Detection & Elimination				
<input type="checkbox"/> Erosion & Sediment Control				
<input type="checkbox"/> 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)		
<input type="checkbox"/> Paper/Mylar	(%)	
<input type="checkbox"/> CADD	(%)	
<input type="checkbox"/> 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 %)	



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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 vacor **	(%)



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	(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:

▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

(Preferred Units) Response



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