

Municipality/Organization: Town of Millbury, Massachusetts
EPA NPDES Permit Number: MAR041136
MassDEP Transmittal Number: X251408
Annual Report Number Year 9
& Reporting Period: April 1, 2011 – March 31, 2012

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

Part I. General Information

Contact Person: Robert Spain **Title:** Town Manager
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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: Robert Spain
Title: Town Manager
Date: 4-30-12

Part II. Self-Assessment

The Town of Millbury is pleased to be one of 13 MS4 municipalities participating in a stormwater project funded by the Community Innovation Challenge Grant, administered by the Massachusetts Executive Office of Administration and Finance. The Town of Spencer is serving as the lead community for the Project. The work completed under the grant, which was fully funded in the amount of \$310,000, will begin on May 1, 2012, will include ten tasks, each of which will be facilitated by the consulting firm Tata & Howard, Inc. The ten tasks to be completed under this project include:

1. **Develop a Methodology to Reach a Common Benchmark.** Review the scope of activities completed by each participating community, including mapping, outfall inspection, operations and maintenance procedures (such as catch basin cleaning and street sweeping), implementation of SWPPPs at appropriate facilities, data management, implementation of effective illicit discharge, detection and elimination (IDDE) components, development of comprehensive stormwater by-laws. Task shall develop standard forms and methodologies for common procedures such as inspections, monitoring, and operation and maintenance of the stormwater system in each community. Results of this task will be incorporated into other tasks within this project.
2. **Develop Training DVD/CD** to be used for a variety of training purposes, including to educate volunteers, administrators, Town employees and the general public on water quality issues and the scope, drivers, and successes of the MS4 Permit.
3. **Develop Educational Website.** Communities will define the objective of the educational website, including the intended audience(s) of the website. Website domain name will reflect the goals of the group and would be memorable, effective, and appealing to the website's audience. Materials aggregate on the website will be aimed at each intended audience. Tools will be integrated to the website's design to measure the effectiveness of each component. Framework for the appearance of the educational website shall be based on the foundation developed during the workshop. A third-party media developer will develop the appearance of the website and to secure the domain name.
4. **Develop Online Database for Data Management.** Communities will jointly determine the priority of the group's data management needs and determine the tools to be included in the database. Information collected may include the following: dry weather inspection reports; wet weather inspection reports; outfall inspections; water quality data; erosion and sedimentation control inspections; catch basin cleaning and inspection data; and other related tasks. Database will be accessible to participating communities.
5. **Develop Stormwater System Mapping Integration.** Task will include a review the format each participating community currently uses for mapping, including the type of software (which may include Esri's ArcGIS™, AutoDesk's AutoCAD, or Bentley's MicroStation™) and the extent of infrastructure that is currently mapped. GIS data management software options will be evaluated, as well as options for integrating each community's existing data and ways to manage the data in a manner that is secure and accessible to all participating communities. Focus will be on maintaining the flexibility to expand mapping capability. Tasks to integrate and host the combined mapping data will likely involve the services of a third-party geographic specialist.
6. **Develop a Sump Pump Discharge Policy.** Task will determine the current policies and procedures in each community with respect to the discharge of sump pumps from private residents to a) sanitary sewer systems and b) storm water systems. Inventory will be completed of "Right of Inspection" authority in each participating community as it applies to private residences. A regional education and outreach program will be developed, aimed at residents in preparation for implementing a successful policy. A sump pump discharge policy will be developed that provides a framework for the participating communities. The Policy may include a situational approach, and allow for flexibility in administration of the policy (based on lack of infrastructure) in a way that is consistent from community to community.

7. **Develop a Stormwater Pollution Prevention Plan (SWPPP) Template.** A SWPPP template will be developed in the form of a word processing document, to address elements common to all SWPPPs, to include storage of materials, site and tank inspection practices, water sampling, spill prevention and cleanup, Standard Operating Procedures for a number of activities, and other sections. SWPPP template will use pull-down windows, entry cells, and other simple functions that allow user to choose materials, tank sizes, and other facility-specific information, and to enter names and contact information for Pollution Prevention, and local emergency responders, and subcontractor information.
8. **Develop a Salt/Sand Application Decision Tree.** Task will determine the types of roadway treatments used and the loading rate for each; application methods; equipment calibration; existing watershed-based restrictions on application of chlorides. Information gathered shall be used by Highway and Public Works department staff to drive selection of a roadway treatment, including current weather conditions, 24-hour weather forecast, sun/shade condition of a roadway, traffic volume, and other factors. The result will be a decision approach for roadway treatment that maintains safe conditions while reducing chloride loading to surface waters.
9. **Develop a Stormwater BMP Toolbox.** Task will inventory stormwater post-development tools (i.e., stormwater Best Management Practices [BMPs]) currently permitted and encouraged in each community, as well as recommend stormwater BMPs that should be accepted in each community. The technical data, design factors, and construction limitations of each BMP shall be compiled in an easy-to-use format to facilitate selection of appropriate development and redevelopment stormwater management technologies that are consistent with the requirements of the current MS4 Permit, the Massachusetts Stormwater Handbook (February 2008), and other current guidance documents. The Toolbox will provide the flexibility for inclusion of new BMPs (subject to regulatory approval) and expansion based on expected requirements in the anticipated 2012 MS4 Permit.
10. **Develop a Request for Proposals for General Consulting Services.** A Request for Proposals (RFP) will be developed for services defined under other Project tasks. The RFP can be utilized by each participating community. Scope included in the RFP may include outfall inspection, dry- and/or wet-weather monitoring, catch basin inspection, catchment delineation, and other related tasks, as appropriate.

The Town of Millbury has performed the required self-assessment and determined that, based on available information, our municipality is in compliance with the terms of our General Permit. Any exceptions to this are detailed in Part III below.

Millbury continues to await issuance of the Final Massachusetts Interstate, Merrimack and South Coastal Small MS4 General Permit, and will review its Stormwater Management Program when the new Permit is issued.

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	Planned Activities
1	Create a Stormwater Program	Department of Public Works, Planning Board, Conservation Commission, Board of Health, Board of Selectmen	Millbury will present to the public at a public meeting Millbury's Comprehensive Stormwater Management Program.	Measurable goal completed in previous permit years.	No further action required at this time: awaiting issuance of the Final Massachusetts Interstate, Merrimack and South Coastal Small MS4 General Permit.
2	Create Stormwater Program	Department of Public Works	Millbury will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of Millbury's Comprehensive Stormwater Management Program, including public education and outreach.	Measurable goal completed in previous permit years.	Millbury will be participating in stormwater activities as one of 13 MS4 municipalities involved in a Community Innovation Challenge Grant project. Millbury will continue to look for additional funding opportunities to support protection of local water bodies. Section 319 grants are not anticipated in the future because of specific restrictions on use of 319 funding in MS4 urbanized areas and to complete work required by federal permits.
3	Address specific groups	Department of Public Works	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town Hall, Library and Transfer Station.	Basic stormwater educational messages distributed.	Millbury will continue to distribute stormwater educational messages. In Year 10, the Town will use Household Hazardous Waste Collection events as an opportunity to expand public education and outreach.
4	Target groups likely to impact stormwater	Department of Public Works	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste and pet maintenance.	Basic stormwater educational messages distributed.	Millbury will continue to distribute stormwater educational messages. The Town is considering installing watershed signs in Year 10.

5	Identify alternate information sources	Department of Public Works, MIS Department	Millbury will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website. http://www.millbury-ma.org/ . Millbury will post links to Our Lady of Assumption School student storm drain project (www.sdwgt.tripod.com/). The Town will work with Lake Singletary Watershed Association in the collection and dissemination of data from the association's sampling program. Data will be posted on Town website along with relevant BMPs for target audiences.	The Lake Singletary Watershed Association sampling data was distributed to association members and other interested parties.	The Town will incorporate new outreach activities as elements of the next five year Permit term.
6	Identify alternative information sources	Department of Public Works, MIS Department	The Town of Millbury will contact Blackstone River Watershed Council to review opportunities in Millbury. These opportunities include hosting a watershed association meeting in Millbury with notice on website and local access channel, and televising a meeting reviewing watershed activities or needs specific to Millbury.	Town continued to work with the Lake Singletary Watershed Association (LSWA), the Dorothy Pond Restoration Committee (DPRC), and the Blackstone River Watershed Council (BRWC) to support their programs and events.	Continue ongoing efforts.
7	Utilize local public access channel.	Department of Public Works	Public meeting notice and a meeting reviewing Millbury's Comprehensive Stormwater Management program will be posted/broadcast on Millbury's local access channel.	Measurable goal completed in previous permit years. "Liquid Assets" documentary continues to be shown on local public access channel on a regular schedule.	No further action required at this time; however, local access channel will continue to air stormwater announcements and "Liquid Assets" regularly.
8	Develop, conduct and document educational programs.	Department of Public Works Selectmen Liaison	The Town of Millbury will contact Blackstone River Watershed Council to review opportunities in Millbury. These opportunities include hosting a watershed association meeting in Millbury with notice on website and local access channel, and televising a meeting reviewing watershed activities or needs specific to Millbury. The Dorothy Pond Restoration Committee and the Ponds and Lakes Commission (appointed by the Town) will post meeting and event notices on the Town of Millbury's web page. Special events and seminars with guest speakers will be televised on Millbury's local access channel.	The DPRC and the Ponds and Lakes Commission (appointed by the Town) posted meeting and event notices on the Town of Millbury's web page.	The DPRC and the Ponds and Lakes Commission (appointed by the Town) will continue to post meeting and event notices on the Town of Millbury's web page. Special events and seminars with guest speakers will be televised on Millbury's local access channel. New opportunities will be considered as elements of the next five year permit term.

9	Promote Household Waste Recycling	Department of Public Works, Board of Health	The Town of Millbury will work with its contracted waste hauler and the Board of Health to continue to sponsor Hazardous Waste Collection days.	Measurable goal completed. Household hazardous waste is collected Wed - Sat at the Transfer Station. In Year 9, the Town received a \$30,000 donation from Wheelabrator Technologies, Inc., a local municipal waste combustion facility. In Year 9, the Town began planning to use this funding to develop a formal Household Hazardous Waste Collection program.	Recycling and hazardous waste collection is expected to continue. Implement Household Hazardous Waste Collection program, and use the collection events as an opportunity to expand public education and outreach.
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 9	Planned Activities
10	Storm drain stenciling	Department of Public Works	The Town of Millbury will work with local students at Our Lady of Assumption School in continuing its support of storm drain stenciling by students.	Measurable goal completed in previous permit years. School provided stenciling during permit years 1-4.	Additional storm drain stenciling programs will be considered as an element of the next five year term.
11	Community clean-ups	Department of Public Works, Millbury Conservation Commission	The Town of Millbury will encourage local stream team cleanups with local residents and area Scout groups. The Town will provide solicitation of sponsors and notice of events on local access channel and website.	LSWA hosted several cleanup days during the year. Expanded cooperation this year to include the Brierly Pond Association and at Ramshorn Pond, both for pond cleanouts.	The Town will continue to support area cleanups.
12	Community clean-ups	Department of Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	Town picked up and disposed of materials from cleanups. In Year 9, this included providing a truck and labor for a cleanup near Goretti's Market in conjunction with the Blackstone River Watershed Council. The Town continues to utilize the services of the Worcester County Sheriff's Department prisoner program to assist in these cleanup events.	The Town will continue to support area cleanups.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 9	Planned Activities
13	Inventory and mapping of storm drain system	Department of Public Works	The Town of Millbury will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of its Comprehensive Stormwater management Program, including public education and outreach.	Measurable goal completed in previous permit years.	Continue to review map and update, as needed. Section 319 grants are not anticipated in the future because of specific restrictions on use of 319 funding in MS4 urbanized areas and to complete work required by federal permits.
14	Mapping and identification of outfalls and receiving waters	Department of Public Works, Board of Assessors	Millbury will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Meeting approval of funding.	Measurable goal completed in previous permit years (map of drainage system).	Continue to review map and update, as needed.
15	Identification/description of problem areas	Department of Public Works	The Town of Millbury will develop and implement an Illicit Discharge Detection and Elimination (IDDE) plan, contingent on Town Meeting approval of funding.	Measurable goal completed in previous permit year. In Year 9, the Town began using a new catch basin inspection form to improve ability to identify potential illicit discharges. The Town continues to require Building Inspector to certify that all new building foundation drains run to daylight to prevent connection of illicit discharges to Town system.	The Town will continue to implement the IDDE Program. In Year 10, the Town will work to develop a Sump Pump Discharge Policy that encourages discharge of sump pumps to the storm drain system, not the sanitary sewer, while preventing illicit discharges.
16	Enforcement procedures addressing illicit discharge	Department of Public Works	The Town of Millbury will review whether local authority is appropriate and able to respond to potential illicit discharges. New by-laws, if necessary will be proposed to Town Meeting.	Measurable goal completed in previous permit years. No stop work orders were issued during this permit year.	Continue enforcement of bylaw.
17	Public information program regarding hazardous wastes and dumping	Department of Public Works, Board of Health	The Town of Millbury will provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections	Recycling/disposal programs continued and were advertised to residents.	Continue ongoing efforts.
18	Initiation of recycling programs	Planning Board, Board of Health	Millbury will apply for funding assistance from DEP's Recycling Grant Program for assistance in public education and the purchase of recycling materials.	Recycling program established in prior permit years, and continued throughout this permit year.	Millbury expects to continue the recycling program.

19	Watershed assessments and studies	Department of Public Works, Conservation Commission, Board of Health	Millbury will identify opportunities for funding assistance from DEP's 604(b) and 319 grant programs and the Department of Environmental Management's Lake and Ponds Grant Program to support watershed assessment and implementation activities. Task can include design and installation of stormwater BMPs and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation for stormwater related problems impacting water quality in Brierly Pond, Dorothy Pond, Hathaway Pond, Howe Pond, Howe Reservoirs, Slaughterhouse Pond and Woolshop Pond. These waterbodies have been identified as impaired and on DEP's 303d list.	Millbury obtained 319 grant and CWSRF loan for stormwater activities in prior permit years. Town volunteers participated in BRWC water quality sampling efforts and a river shore cleanup day.	Millbury will continue to look for funding and public participation opportunities for assessments/studies in the local watersheds. Section 319 grants are not anticipated in the future because of specific restrictions on use of 319 funding in MS4 urbanized areas and to complete work required by federal permits. Millbury will begin monitoring of stormwater outfalls under the next permit term.
20	Watershed assessments and studies	Department of Public Works, Public Water Suppliers	The Town of Millbury will encourage the Massachusetts American Water Works Co. to apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zones II. These plans can include stormwater management programs. The proposed tasks will include a public education component. The Lake Singletary Watershed Association will be consulted and asked to provide educational data from their studies and monitoring of Lake Singletary for posting on Millbury's local access channel and website.	LSWA water quality data was distributed to members and other interested parties.	Millbury will continue to work on its Source Water Protection Program and seek data from the Lake Singletary Watershed Association for distribution.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 9	Planned Activities
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board, Conservation Commission, Town Counsel, Board of Health, ZBA	Millbury will review model by-law developed by DEP in consultation with the Attorney General's Office.	Measureable goal completed in previous permit year. The Planning Board completes a review of plans for proposed developments in conjunction with a consultant.	No further action required at this time.

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	Planned Activities
22	Bylaw: Require post-construction runoff controls	Planning Board, Conservation Commission, Town Counsel, Board of Health, ZBA	Millbury will review model by-law developed by DEP in consultation with the Attorney General's Office.	Chapter 16 Section 3 of the Town's General Bylaws addresses post-construction stormwater management and redevelopment. In Year 9, three developments were inspected after construction before Town accepted these roads.	No further action required at this time.

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	Planned Activities
23	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Using regulations and recommendations from the DEP and EPA, Millbury will develop and update an operations and maintenance plan to include proper disposal of street sweepings, catchbasin cleanout, snow disposal, roadway de-icing procedures, vehicle washing, and outside storage of materials.	Measurable goal completed in previous permit years. In Year 9, Town continued to implement street sweeping, sidewalk sweeping catch basin cleaning, and other O&M activities consistent with the MS4 Permit.	Millbury will continue to follow the O&M plans as described in the SWPPP documents.
24	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Millbury will implement a formal inspection program, including maintenance logs and scheduling, for catch basin cleaning, repairs, and new installation.	Measurable goal completed in previous permit years. In Year 9, the Town developed and implemented a new Work Routes method for tasks including storm drain system O&M, defining 23 unique routes within the community.	Millbury will continue its ongoing O&M program, and keep records of activities undertaken.

25	Develop and implement training programs for municipal employees	Department of Public Works	Millbury will send a minimum of 3 public works employees annually to training seminars sponsored by MassDOT, BayState Roads, and other relevant agencies or vendors.	Three municipal employees attended oil spill cleanup training. The Town participated in pollution prevention training and a Massachusetts Highway Association sand/salt calibration class in Year 9. Finally, in Year 9, the Town had a Hazardous Materials Compliance Audit completed. This audit included training on storage of hazardous materials and pollution prevention.	Millbury will continue to train public works employees on stormwater pollution prevention and good housekeeping.
26	Review storm drainage infrastructure needs	Department of Public Works	Millbury will incorporate storm drain infrastructure review in Millbury's Chapter 90 project utilizations.	Drainage improvements are completed as necessary in conjunction with Chapter 90 projects, and through the Town's I/I program.	Millbury will continue to identify opportunities to incorporate stormwater improvements into future capital projects.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 9	Planned Activities
Not Applicable	Not Applicable	Not Applicable	The following Millbury water bodies have been designated impaired under the current Massachusetts Integrated List of Waters: Blackstone River, Brierly Pond, Dorothy Pond, Hathaway Pond, and Howe Pond. However, TMDLs have not been developed for any of these water bodies. A TMDL for the Blackstone River will be developed in the future.	Evaluate any TMDLs developed for impaired waters.	Continue to evaluate TMDLs developed for impaired waters.

Part IV. Summary of Information Collected and Analyzed

No additional information was collected or analyzed outside of that identified in Part III above.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by **, which indicates response is for period covering April 1, 2011 through March 31, 2012)

Programmatic	(Preferred Units)		Response
	(y/n)		
Stormwater management position created/staffed			Yes
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 %)	13,000
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	1 mi
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	Working Hrs @ BOH/Transfer Station
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	Yes

Legal/Regulatory

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

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	266
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	0
▪ CADD	(%)	0
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/ screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	3
Illicit connections removed **	(#), (gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#), (gpd)	3
% of population on sewer	(%)	75%
% of population on septic systems	(%)	25%

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Yes
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes

1 O&M Plan requires maintenance agreement.

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1 per year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	As-needed
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF, mi.)	100 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Worcester Landfill
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr, \$/CB)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	N/A
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vacor **	(%)	0%

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)	1+/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Worcester Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	~\$75,000
• Hourly or lane mile contract rate **	(\$/hr, ln.mi.)	N/A
• Disposal cost**	(\$)	\$0
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• 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%

Operations and Maintenance (continued)

Average Ratio of Anti-/De-Icing products used **		(Preferred Units)	Response
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	20% NaCl, 80% Sand
Pre-wetting techniques utilized **		(y/n or %)	No
Manual control spreaders used **		(y/n or %)	Yes
Zero-velocity spreaders used **		(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate		(lbs/lb mi, %)	0%
Estimated net reduction or increase in typical year sand application rate **		(lbs/lb mi, %)	0%
% of salt/chemical pile(s) covered in storage shed(s)		(%)	100%
Storage shed(s) in design or under construction		(y/n or #)	N/A
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008		(y/n)	Yes

Reduction (since beginning of permit coverage) in application on public land of:

("N/A" = never used; "100%" = elimination)

▪ Fertilizers	(lbs. or %)	0%
▪ Herbicides	(lbs. or %)	0%
▪ Pesticides	(lbs. or %)	0%
Integrated Pest Management (IPM) Practices Implemented		Yes

Water Supply Protection

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