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Municipality/Organization: Town of Millbury

EPA NPDES Permit Number: MAR041136 SP

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Annual Report Number & Reporting Period: **No. 3: March 05-March 06**

Received 5-4-06 SP

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Joe Chase Title: Director, Department of Public Works

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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: PAUL J. GUIDA

Title: TOWN MANAGER

Date: May 1, 2006

Part II. Self-Assessment

The Town of Millbury has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions. The Town of Millbury has successfully implemented or begun implementation of several Measurable Goals noted in its Notice of Intent. Prior to the development of its Comprehensive Stormwater Management Program, including Measurable Goals, the Town had an assessment performed of current activities, programs, and regulations that could support the NPDES Phase II Stormwater program. This assessment became the basis for modifying current activities, recommending new programs, and informing town boards and departments of their obligation toward successful implementation of Millbury's Comprehensive Stormwater Program.

Millbury is pleased to present the following summary describing its success at implementing the second year's Comprehensive Stormwater Management Program.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
1	Create a Stormwater Program	Department of Public Works Planning Board Conservation Commission Board of Health Board of Selectmen	Millbury will present its Comprehensive Stormwater Management Program to the public at a public meeting.	The Town of Millbury has completed *Stormwater Management Phase II Assessment* report. Copies are available for review by town departments and the public. The Stormwater Management Program and IDDE were discussed at a Board of Selectmen meeting March 9, 2004. The Town of Millbury held a multi-department storm water work session to review goals and responsibilities of the Comprehensive Storm Water Management program in May 2004.	Measurable Goal complete. No additional goals are required after year 1.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
2	Create a 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 its Comprehensive Stormwater Management Program, including public education and outreach.	Millbury was also approved for SRF loan assistance to develop Comprehensive Storm Water Management Plan and to implement the components of the IDDE program. This program has been funded and is underway. The Dorothy Pond work is complete except for final paving and an amendment was filed to extend the drainage improvements to occur at Singletary Lake also. This project was not undertaken as a NPDES compliance project, but rather as a stormwater quality improvement initiative intended to complement the Town's NPDES program.	The Town of Millbury will continue to identify funding opportunities and implement SRF loan programs to support the protection of local water bodies. The Town will re-construct and replace the catch basins around Singletary Lake by replacing existing catch basins with deep sump catch basins and adding hoods to existing deep sump catch basins. The IDDE program is underway.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
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.	The Town of Millbury has a disk containing EPA educational materials that can be printed and distributed. Information available from the Town includes "Transfer Station Regulations." The Millbury High School (in conjunction with the Environmental Council) makes annual environmental education presentations to the third grade classes. The third graders were given "earth bags" of environmental information. The Town has printed brochures and is making them available at town buildings. The Town set up an educational storm water display at Town Meeting in May 2005.	The Town will continue to print and make available brochures regarding storm water.
4	Target groups likely to impact storm water	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.	See BMP #3.	See BMP #3.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
5	Identify alternative 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 8-year sampling program. Data will be posted on town website along with relevant BMPs for target audiences.	The Town does not have a website manager. This BMP was not completed for Permit Year 3. The Town's consultant identified multiple relevant web links to be linked to the Town website.	The Town of Millbury will consider posting BMPs, the EPA, DEP links, and student storm drain links on its website. The Our Lady of Assumption School website is not currently active, but attempts will be made to restart the site. The Town has recently educated a member of the staff to edit the Town website. The Town will make efforts to post the links in year 4.
6	Identify alternative information sources	Department of Public Works MIS Department	The Town of Millbury will contact the 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 Town of Millbury is in the process of identifying a liaison to the Blackstone River Watershed Council (BRWC). The Town has attended BRWC workshops during January 2006 on storm water issues called "*Better Storm Water Management, Mitigating Flood Impacts in the Blackstone River Valley*", by and at the Blackstone River Coalition.	The Town of Millbury will contact the Blackstone River Watershed Council to determine opportunities within Millbury. Town of Millbury will continue to coordinate with the Lake Singletary Watershed Association and the Dorothy Pond Restoration Committee to support their programs. The Town of Millbury will identify the liaison to the BRWC.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
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.	Goal complete year 1. The IDDE was reviewed on local access in March 9, 2004 Board of Selectmen meeting.	Local access will continue to announce stormwater related public announcements.
8	Develop, conduct and document educational programs	Department of Public Works Selectmen Liaison	The Town of Millbury will contact the 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 Town website includes a link of contact information and meeting notices for the Dorothy Pond Restoration Committee. The Our Lady of Assumption School works with the Blackstone River Watershed Council and Massachusetts Audubon Society for environmental education programming regarding storm water. The Dorothy Pond Association and Lake Singletary Association have printed and distributed brochures and flyers to residents that live within the water body residential areas including Millbury and Sutton.	Millbury will consider hosting a Blackstone River Watershed meeting and post notices on the website and local cable access. Millbury will also continue to maintain and add to the Town website. The Town will attempt to host a watershed meeting within Millbury with notice on the website. The Our Lady of Assumption School programming is expected to continue. The Dorothy Pond Association and Lake Singletary Association will attempt to post meetings and events notices on the web page.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
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.	The Town of Millbury has transfer station regulations available at the Town Clerk's office. Some Hazardous Wastes are collected and stored for proper disposal. These wastes are car batteries and waste oil. The High School Environmental Council supports recycling education in the school system.	These recycling programs are expected to continue.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
10	Storm drain stenciling	Department of Public Works	Millbury will work with local students at Our Lady of Assumption School in continuing its support of storm drain stenciling by students.	The Our Lady of Assumption School provided storm drain stenciling services for the Town during Permit Year 3.	The Our Lady of Assumption School will be providing storm drain stenciling services during May of Permit Year 4.
11	Community clean-ups	Department of Public Works Millbury Conservation Commission	Town of Millbury will encourage local stream team cleanups with local residents and area Scout groups. Town will provide solicitation of sponsors and notice of events on local access channel and website.	The Environmental Council at Millbury High School has coordinated a stream team event program. Information regarding the council can be found on the Environmental Council web-site at: http://www.millbury.k12.ma.us/hs/ec/main.htm Brierly Pond had a clean up in 2005. The Our Lady of Assumption School 7th graders performed a river cleanup during Permit Year 2 and 3. The 2005 Earth day cleanup was aided by DPW.	The stream team cleanups with both schools are expected to continue annually.
12	Community clean-ups	Department of Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	The Town of Millbury provides trucks for disposal of trash during stream team events.	The Town of Millbury is expected to continue supporting stream team clean ups.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
13	Inventory and mapping of storm drain system	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 its Comprehensive Stormwater Management Program, including public education and outreach.	The Town of Millbury applied and was approved for an SRF loan for funding of the IDDE. Components of the program include: o GIS Basemap, o Mapping entire stormwater system including tracing application and modeling, o Outfall inspection and inventory, o Bacterial sampling of outfalls, o Education on the hazards of illegal dumping, and o Bylaw review. The Town of Millbury received local approval for the IDDE.	The CSMP is now underway.
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.	This BMP was dependant on Town Meeting approval of the IDDE. The IDDE program was approved and is in progress. The aerial flyover for mapping receiving water bodies and outfalls is complete. The Town is conducting GPS of the storm water system and sewer manholes in a pilot area in the center of Town.	Mapping of the outfalls and receiving water bodies will continue.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
15	Identification/description of problem areas	Department of Public Works	Millbury will develop and implement an Illicit Discharge Detection and Elimination (IDDE) plan, contingent on Town Meeting approval of funding.	The IDDE program is in process. The Town's consultant has prepared a report on Identification of Potential Illicit Discharge Areas and a Plan to Follow Up on Dry Weather Flow.	The town will continue implementing the IDDE program.
16	Enforcement procedures addressing illicit discharges	Planning Board Town Counsel Board of Health	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.	This BMP was scheduled for Permit Year 3. A Draft by-law prohibiting non-stormwater discharges to the drainage system was developed and is under review by the Town Planner and other departments.	During year 4, as part of the CSMP, Millbury will review whether local authority is appropriate and able to respond to potential illicit discharges. A proposed new by-law prohibiting non-stormwater discharges is proposed for Fall Town Meeting.
17	Public information program regarding hazardous wastes and dumping	Department of Public Works Board of Health	Millbury will provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections.	The Town is in possession of a CD with DEP educational brochures for reproduction. DEP flyers are distributed at the Town Hall, transfer station and the Highway Department.	Millbury will continue to provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections at the Town Hall, transfer station and the Highway Department.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
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 information is located within the transfer station regulations available at the Town Clerk's office. The Town recycles glass, plastic, cans, and newspaper and magazines. Some Hazardous Wastes are collected and stored for proper disposal. These wastes are car batteries and waste oil. The Town applied for the recycling grant but did not receive the grant. The High School Environmental Council supports recycling education in the school system.	The Town of Millbury expects to continue the recycling program and apply for the recycling grant again.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
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 Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks may include design and installation of stormwater BMPs and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation of stormwater related problems impacting water quality in Brierly Pond, Dorothy Pond, Hathaway Pond, Howe Pond, Howe Reservoirs, Slaughterhouse Pond, and Woolshop Pond. These water bodies have been identified as impaired and on DEP's 303d list.	The Brierly Pond Association is doing a study on the water quality of the Pond. Once the study on the state of the pond is completed the Association will apply for a grant.	The Town of Millbury will continue to identify funding opportunities and implement the SRF loan program to support the protection of local water bodies.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
20	Watershed assessments and studies	Department of Public Works Public Water Suppliers	The Town of Millbury will encourage the Massachusetts Aquarion 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 Zone IIs. 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.	Aquarion Water Works has applied for assistance from the DEP Source Water Protection Program to assist in protecting the North Main Street wells. The Town applied for and received grants for wellhead protection to remove perchlorate from groundwater due to dynamite blasting. Filters system are being designed. The Lake Singletary Watershed Association is creating and distributing handouts to the residents of Lake Singletary in both Millbury and Sutton. The Town does not currently have a Web Manager.	The Town of Millbury will ascertain the availability of funds from the Water Protection Program in Permit Year 4. The Town of Millbury will contact the Lake Singletary Watershed Association regarding educational data from their studies and monitoring.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	Millbury will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Planning Board, Conservation Commission, and Board Of Health have been meeting on bylaws. A preliminary Draft Stormwater Management by-law was developed and is under review by the committee. Further meetings are scheduled.	Meetings will continue to be scheduled with all departments to review the construction bylaws. A meeting is proposed for May 2, 2006 to review and discuss the construction and post construction subdivision bylaws to expand on the erosion control and storm water regulations. The Town's consultant will assist in review of relevant model by-laws.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
22	Bylaw: Require post-construction runoff controls	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	Millbury will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Planning Board, Conservation Commission, and Board Of Health have been meeting on bylaws.	A meeting is to be scheduled with all departments to review the post-construction bylaws. A meeting is proposed for May 2, 2006 to review and discuss the construction and post construction subdivision bylaws to expand on the erosion control and storm water regulations. The Town's consultant will assist in review of relevant model by-laws.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
23	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Using regulations and recommendations from DEP and EPA, Millbury will develop and update an operations and maintenance (O&M) plan to include proper disposal of street sweepings, catchbasin cleanout, snow disposal, roadway de-icing procedures, vehicle washing, and outside storage of materials.	The Town of Millbury has Stormwater Pollution Prevention Plans (SWPPP) for the highway facility, transfer station, and wastewater treatment facility. These plans contain stormwater BMPs, good housekeeping practices, and employee education. This is an ongoing program.	The Town of 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 catchbasin cleaning, repairs, and new installation.	The DPW does keep some records of maintenance activities. A formal municipal O&M Plan has been developed with the contracted engineering company as part of the ongoing Comprehensive Storm Water Program.	The Town of Millbury will begin recording and documenting inspection and maintenance activities.
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 MassHighway, BayState Roads, and other relevant agencies or vendors.	The DPW sent 3 public works employees to the BayState Roads training seminar.	Training has been allocated in the FY06 budget and the 3 employees will attend.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
26	Review storm drainage infrastructure needs	Department of Public Works	Millbury will incorporate storm drain infrastructure review in its Chapter 90 project utilizations.	The Town of Millbury contracted engineering firm has designed the installation of Stormceptor units or other appropriate Storm water BMPs along Dorothy Pond and Lake Singletary. The Dorothy Pond Contract is complete and an extra work order was created to expand the drainage improvements around Lake Singletary. Another drainage infrastructure project is the elimination of the junior/senior high school drainage problem. The engineering is complete.	The junior/senior high school drainage problem will be constructed. The Town will make efforts to continue to utilize Chapter 90 funds to fund storm water infrastructure projects.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)- *NOT APPLICABLE*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
				No TMDLs in the Town of Millbury	

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents 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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	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

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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 completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

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)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	($)	

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)	
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	

Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	