

Municipality/Organization: Town of North Attleborough

EPA NPDES Permit Number: MAR041142

MADEP Transmittal Number: W-041030

Annual Report Number
& Reporting Period: No. 15: May 1, 2017 to April 30, 2018

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Mark Hollowell Title: Director of Public Works

Telephone #: 508-695-9621 Email: mhollowell@north-attleboro.ma.us

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: Mr. Mark Hollowell

Title: Director of Public Works

Date: 05/07/2018

Part II. Self-Assessment

The Town of North Attleborough has completed the required assessment and determined that our municipality is in compliance with the permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
1-1 Revised	Stormwater flyer to community residents	Board of Public Works Board of Public Works (BPW), Planning Board (PB), Conservation Commission (CC), ZBA	Distribute to at least 75% of residents.	In Permit Year 4, flyers were placed on display and made available to residents at the Town Hall, Library, Water Department/DPW office. A stormwater survey was distributed to residents and 8 surveys were returned. Stormwater cards were hand delivered to residents in neighborhoods with issues of dog waste in catch basins.	BMP Completed. Continue displaying flyers at public places. Incorporate the results of the stormwater survey into the stormwater public education program work towards providing more information about how residents can assist in stormwater quality. Continue to flyer neighborhoods with issues of pet waste in storm basins.
1-2 Revised	Stormwater lesson plan for fifth grade students	Board of Public Works BPW, PB, CC, ZBA	Lesson plan taught at one or more grade 5 classes.	Alternate BMP determined. Presentation at "Touch the Trucks" annual event, including flyers, stickers and stormwater public education video. Over 600 children in attendance each year. (10 years in a row)	Continue to develop and implement methods to teach stormwater issues to students.
1-3 Revised	Stormwater flyer to community businesses	Board of Public Works BPW, PB, CC, ZBA	Distribute to a minimum of 50% of businesses with storm water logo displayed by half of the businesses receiving the flyer.	Business flyers have been distributed to approximately 500 businesses.	BMP Completed in year 5.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) - Permit Year 14 Continuation	Planned Activities - Next Permit Round
1-4 Revised	Storm water media campaign	Board of Public Works BPW, PB, CC, ZBA	Four press releases generated and issued to local media.	The Stormwater Committee began providing a stormwater education table for the National Public Works Week events in May 2008 -2017, including flyers, handouts and a looping video presentation. This event was advertised to the public. This is an annual event where over 1000 people (including 600 children) are in attendance.	BMP Completed. Display stormwater education materials (handouts, fact sheets, brochures, video, etc.) at a table for the May 2016 event for "National Public Works Week". Utilized materials from the SuAsCo media kit.
1-5 Revised	Stormwater video	Board of Public Works BPW, PB, CC, ZBA	Show a stormwater video at least one public meeting & show stormwater video at least once on local cable channel.	A stormwater video was obtained and presented at a Board of Public Works Meeting in 2008, and Annual National Public Works Week events.	BMP Completed. The stormwater video was played at the stormwater education table for the May 2017 public event for "National Public Works Week". Will continue to seek additional events and the local cable channel to show the video.

1a. Additions.

1-6 Revised	Community participation/Household hazardous waste collection	Board of Public Works BPW, PB, CC, ZBA	Annual Hazardous waste day (depends on funding).	Two Hazardous Waste Collection Events are held annually (typically in September and April). The events are advertised in the local paper, on the website and on the Town cable channel.	BMP Completed. Continue advertising and hold at least one Hazardous Waste Collection Event.
1-7 Revised	Community yard waste composting	Board of Public Works BPW, PB, CC, ZBA	Volume of yard waste composted.	Almost 4,000 cubic yards of yard waste was accepted from residents for composting. The composting service was advertised in the local paper and on the Town website. Yard waste picked up at homes 2 times per year.	BMP Completed. Continue accepting, composting and tracking the volume of yard waste. Continue to advertise the program through press releases and local cable. Leaf pick days established.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
2-1 Revised	Form a stormwater Committee	Board of Public Works BPW, PB, CC, ZBA	Establish committee and meet quarterly.	Meetings with Public Works/ Con. Comm staff to outline the program needs and address BMP requirements of program. 10-mile River Committee developed long term goals and posted on website. Group made up of local officials and citizens.	Implement committees long -term plans for river mitigation and reducing flooding impacts on 10-mile river. Study report on Town Website. Design plans for sediment removal in permitting process.
2-2 Revised	Community Hotline	Board of Public Works BPW, PB, CC, ZBA	Hotline established, record of calls and problems remedied.	The Town received approximately 20calls related to storm water and all issues were responded to and addressed. Most calls were related to flooding or drainage system repairs. Calls were tracked using a DPW Work Order Form.	Continue logging calls to address stormwater issues.
2-3 Revised	Stormwater traveling display	Board of Public Works BPW, PB, CC, ZBA	Display circulated for at least 3 months and to at a least 3 public places.	The display was maintained at the Water Treatment Plant and Public Works Administration Building.	BMP Completed. Continue to post the display at various locations and events.
2-4 Revised	Stormwater poster contest for fifth grade students	Board of Public Works BPW, PB, CC, ZBA	Contest held, entries received, judged & displayed.	This activity was completed in Permit Year 3.	BMP Completed. No further action is planned at this time.
2-5 Revised	Stormwater photo contest for high school students	Board of Public Works BPW, PB, CC, ZBA	Contest held, entries received, judged & displayed.	No significant progress has occurred on this task during this permit year.	Develop and implement an alternative BMP to involve students.
2-6 Revised	Hold a local multi-community stormwater summit special event and advertise	Board of Public Works BPW, PB, CC, ZBA	Summit held, attendance records, agenda and resulting action items.	Southeast Regional Services Group is working on a multi-community approach to meetings BMPs in the upcoming permits.	Working with multi-community group to develop multiple approaches to addressing storm water issues regionally.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
2-7	Participate in SuAsCo stormwater super summit & evaluate public awareness of stormwater	Board of Public Works	Participate; distribute stormwater self-test to 75% of town residents, compile and consider test results.	Attended the SuAsCo Stormwater Work Shop on March 26, 2010	BMP Completed. Continue to coordinate with SuAsCo and evaluate resources to conduct a stormwater super summit or other public involvement activity.
Revised		BPW, PB, CC, ZBA			

2a. Addition.

2-8	Stream Cleanup Activities Along the Ten Mile River	Board of Public Works	Amount of trash/debris removed.	Cleanup activities for the Ten Mile River from Whittings Pond to Falls Pond consisted of debris removal and sediment cleaning at outfalls. An advertised Cleanup Event was held in May 2017 which included a River Clean Up with 600 residents! This event will be held annually. Worked with Regional agency to move forward with long-term projects for river quality improvements. 10-mile River Committee was formed in 2011 with Town staff, Board Members and Residents to develop solutions for river.	Continue improvements to the stormwater discharges to Falls Pond. Review and update the Ten Mile River cleanup plan and schedule. Pursue additional projects and develop an annual maintenance plan. Update residents with the progress of the project continue annual river cleanup event to maintain the restored areas with community participation once the annual maintenance plan is developed.
Revised		BPW, PB, CC, ZBA			

3. Illicit Discharge Detection and Elimination

3-1	Illicit discharge bylaw	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The draft proposed amendments to the Town's Sewer Use Regulations were reviewed by the BPW and Town Counsel. However, the amendments have not been finalized and approved.	Finalize and adopt the proposed amendments to the Sewer Use Regulations.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
3-2	System mapping development	Board of Public Works	Locate all discharges, complete system map & databases, and add soil and land use data to base maps.	The drainage mapping database was updated with ongoing inspection results related to drainage structure maintenance (e.g., catch basin, manhole & pipe conditions). The drainage system in Route 1 (owned by MassHighway) was field verified and the GIS map was updated to better understand the Town's drainage system in this area.	BMP Completed. Town's drainage system is fully mapped, including outfalls. Evaluate maintenance requirements (see BMPs 6-1 & 6-2) and update maintenance schedules. Continue updating map as new drainage system information becomes available.
Revised					
3-3	Inspect & sample town drainage system discharges	Board of Public Works	Inspect all discharges, sample and test flows that indicate an illicit discharge may be present.	Routine outfall inspections were completed for maintenance purposes. GPS equipment was obtained, but no specific outfall screening and/or testing for illicit discharges has been warranted. Catch Basins and Outlets to 10-mile River were cleaned and TV camera inspected in 2012 and 2014.	Dry weather outfall inspections will continue as weather permits, until all outfalls have been properly screened. Outfalls will be sampled as needed.
Revised			Train Public Works employees to inspect outfalls.		
3-4	Illegal dumping education	Board of Public Works	# of illegal dumps reported, # of penalties, # of rewards to citizens who reported, # of dumps cleaned.	The Town has coordinated between Public Works, Landfill and Police to track, investigate and remediate illegal dumping. Over 10 instances of illegal dumping were reported and investigated during the permit period. Clean up event held in May, 2017. Over 600 volunteers participated, including over 250 children. Over 100 yards of trash was picked up, 20 tires, and several mattresses.	Continue logging calls to address illegal dumping and stormwater issues as they arise. Continue Earth Day cleanup events.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
3-5	Septic system controls	Board of Health	# and location of systems, # inspected regularly, # of people trained to inspect, # of failed systems.	Septic system maintenance was mandated in permit year 1. The Board of Health continued to inspect septic systems. A base map of septic systems and data summary (e.g., age, # pumpouts, Title 5 failures) were developed as part of the CWMP developed in Town. The Board of Public Works has instituted a betterment program for tying septic systems into sewer. BOH Updated Septic System Regs in 2011.	Evaluate inspection data and septic system locations with respect to water quality concerns at receiving waters and identify potentially failed systems. Develop and implement a strategy to address failed systems. Continue septic management program.
Revised					

3a. No additions at this time.

4. Construction Site Stormwater Runoff Control

4-1	Soil and erosion control bylaw	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The draft bylaw was previously presented to the Board of Selectmen on March 14, 2007 to receive input. However, the draft bylaw and regulations have not been finalized.	Update the Stormwater Regulations as appropriate to accompany the finalized bylaw. Planning Board and Conservation Commission are working on Regulation Updates
Revised			Bylaw to Town Meeting in year 5.		
4-2	Construction Inspections	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Frequent inspections and # of inadequate sites/plans reported.	The Conservation Commission conducted 5 erosion control inspections that resulted in no enforcement actions. A consultant was engaged to do subdivision inspections for permit compliance.	Continue tracking & inspecting construction sites.
Revised					

4a. Addition.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 Continuation	Planned Activities – Next Permit Round
4-3 Revised	Establish a Procedure for the Receipt of Information Submitted by the Public	Board of Public Works	# of issues reported, record of enforcement actions	The DPW did receive a calls regarding 2 construction sites and the Conservation Commission conducted a site inspections to address construction site erosion issues (refer to BMP 4-2). The information was tracked through email.	Continue logging calls to address construction site erosion issues.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Round
5-1 Revised	Bylaw for post construction runoff	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3. Bylaw to Town Meeting in year 4.	The draft bylaw was previously presented to the Board of Selectmen on March 14, 2007 to receive input. However, the draft bylaw and regulations have not been finalized. The Town continues to review subdivision plans for the most appropriate stormwater BMPs that will be protective of water quality.	A final meeting and public input hearing will be held with the Bylaw Study Committee to finalize the bylaw. Update the Stormwater Regulations as appropriate to accompany the finalized bylaw.
5-2 Revised	Inspect all Town maintained structural BMPs. Document problems	Board of Public Works	Inspect all structural BMPs annually, # of problems identified and remedied, changes in water quality.	Town owned/operated BMPs were inspected and findings recorded. Appropriate maintenance schedules were established based on findings and data was recorded for future use in the Town's GIS system to prioritize and track drainage system maintenance. DPW evaluated maintenance needs at outfalls to the Ten Mile River and Abbott Run and repaired or replaced 10 headwalls.	Continue inspection program of all Town owned/operated BMPs and update database to prioritize areas of concern. Evaluate maintenance needs and access for BMPs on privately owned land without easements.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 Continuation	Planned Activities – Next Permit Round
5-3	Update Zoning Regulations	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Update zoning bylaws, track effectiveness of changes, # of new stormwater treatment areas expected under new codes, projected # of upgrades of existing stormwater facilities.	Updates to the zoning regulations were not pursued since the proposed stormwater bylaw and regulations have not undergone final review.	The need for updates to the zoning regulations will be discussed at future scheduled meetings.
Revised					

5a. No additions at this time.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

6-1	Predictive catch basin program	Board of Public Works Consultant	Develop program, collect data & refine program.	50% of catch basins were cleaned based on sediment accumulation rates from previous years to target areas with the most sediment. Sediment volumes were tracked by catch basin cleaning routes to update accumulation areas based on quantity versus location and the GIS database for the Predictive Catch Basin Program was updated with new data. The Town purchased a truck to clean catch basins based on sediment accumulation rates and are tracking through worksheets for each location.	Continue inspection and cleaning program and update database. Continue to evaluate cleaning locations and schedules to prioritize accumulation areas based on quantity versus location. Utilize the new truck to clean catch basins at an appropriate frequency. All basins cleaned on a two year schedule with high accumulation areas being more frequent. All cleanings are recorded. All Basins directly adjacent to 10-mile River in downtown area are cleaned annually.
Revised					
6-2	Street cleaning	Board of Public Works	Sweep all roads once-years 1 & 2, twice-years 3-5, all parking lots-years 4-5, # lbs. debris collected.	All roads and parking lots were swept at least twice and sediment volumes were tracked by street to evaluate quantities generated per location. The GIS database was updated with new	Evaluate priority sweeping needs based on quantity versus location. Continue road sweeping program and increase sweeping frequencies as appropriate and as budget and staff

Revised				data from 2007. The Town began to evaluate accumulation areas based on quantity versus location. The Town utilized the new 2 nd street sweeper purchased to sweep streets within a shorter time period. Sand use has essentially been eliminated from Snow and Ice program.	time allows.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 Continuation	Planned Activities – Next Permit Round
6-3 Revised	Investigate Town owned BMPs for retrofit opportunities	Board of Public Works	Inspect 3 structural BMPs per year.	All outfalls/culverts in Town were inspected for maintenance issues. Three (3) Stormceptors were installed on Fisher Street. Improvements to the drainage system to the Abbott Run River have been completed with deep sump catch basins, sediment ponds and armored stream channels being installed into existing drainage system. Improvements to Smith Street drainage has been planned for next construction season. Willow St Drainage was reconstructed with deep sump catch basins, and Maple Street drainage is being designed with planned BMPs. East St. Drainage project included a retrofit with Vortechmics unit.	Continue improvements to stormwater discharges along the Ten Mile River and Falls Pond. Implement retrofits of the existing storm drain system as opportunities arise. Inspect BMPs for retrofit/improve opportunities and incorporate information from BMP 5-2. Evaluate potential BMP retrofits with existing maintenance needs and prioritize the most cost-effective activities for maintaining or enhancing water quality.

6a. Additions

6-4 Revised	DPW stormwater training for illicit discharges, pollution prevention and good housekeeping	Board of Public Works	Attendance sheet and copy of program.	A stormwater pollution prevention and good housekeeping training program was reviewed by the Town. Catch Basin Program was amended to include detection and reporting of illicit discharges.	GPS equipment and outfall inspections training for Public Works employees will be scheduled pending upcoming regulation changes. Conduct a training session for pollution prevention and good housekeeping as funding is available.
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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 Continuation	Planned Activities – Next Permit Round
6-5 Revised	Develop an Inspection and Maintenance Plan for the Drainage System	Board of Public Works	Database Program, Records of inspections and maintenance.	The town inspected all outfalls/culverts using the standard inspection forms previously developed. The GIS database was updated with recent inspection data related to drainage system structures and catch basin and street sweeping data. The Town continued to evaluate drainage system maintenance data based on quantity of materials (i.e., catch basin cleanings and street sweepings) versus location. Based on inspection results and maintenance needs funding was obtained to address stormwater discharges to Falls Pond and Chapter 90 funding was approved for storm drain system repairs at 18 sites. Funding for Brook and Culvert Maintenance was approved by Town Meeting.	Continue to maintain the storm drain system based on inspection results. Continue to evaluate and prioritize maintenance needs with emphasis on water quality benefits. Incorporate procedures for addressing water quality improvements for flood control projects.
6-6 Revised	Evaluate Town-wide Municipal Operations for Pollution Prevention Options	Board of Public Works	Evaluation completed in year 4 and recommendations implemented in year 5.	DPW requested funding for a larger salt storage shed and two additional vehicle storage/maintenance bays at the Public Works Facility. These improvements were proposed to minimize potential stormwater impacts at the site due to salt and vehicle storage, as well as assist with facility operation. An indoor vehicle washing bay was constructed as part of the Town's Wastewater Treatment Facility upgrade.	New Salt shed project is out to Bid for Summer 2018 construction. Conduct self-evaluation and develop BMPs, as appropriate, to address potential stormwater impacts.

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

No TMDLs have been established so far for North Attleborough 303(d) waters.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1-3 Continuation (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Round
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7a. Additions

7-1	Develop a Water Quality Strategy for 303(d) Waters.	Board of Public Works	Summary of pollution prevention efforts, future needs, and responsible parties. Copy of surface water quality strategic plan. Photographs, logs, and BMP descriptions for completed efforts and water quality improvements.	No significant progress has occurred on this task during this permit year.	Begin evaluating the status of BMPs and pollution prevention efforts with respect to 303d waters.
7-2	Implement water quality strategy for discharges to 303(d) waters.	Board of Public Works		N/A	To be determined.

7b. WLA Assessment

Currently, there are no Waste Load Allocations (WLAs) for receiving waters in North Attleborough. As required by the general permit, N. Attleborough will give priority to impaired waters for BMP implementation. Years 1-5 served as a building period to implement basic BMPs, generate data and establish a solid stormwater management program. The Town did not begin evaluating the effectiveness of BMPs and stormwater discharges into 303(d) waters due to staff turnover that occurred during Permit Year 5. However, some tasks have been completed, such as a base map of septic systems and data summary (e.g., age, # pump outs, system maintenance) that was developed as part of the CWMP in Town. The Town anticipates significant progress with these tasks in the beginning of the next round of permitting.

Part IV. Summary of Information Collected and Analyzed

All outfalls and culverts have been field verified and inventoried for maintenance needs. Seven years worth of street sweeping and catch basin cleaning data has been compiled and the Town modified the catch basin cleaning frequency based on sediment accumulation areas. The Town continued to evaluate maintenance priorities based on quantity versus location. Funding was obtained to complete improvements and repairs to outfalls that discharge to Falls Pond, Ten Mile River and the Abbott Run River, as well as 15 other storm drain system repair sites. The drainage system in Route 1 (owned by MassHighway) was field verified and the GIS map was updated to better understand the Town's drainage system in this area. Several BMP opportunities have been constructed and the Town continues to work on improvements to quality and drainage problems within the 10-mile River.

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)