Municipality/Organization: Town of North Attleborough

**EPA NPDES Permit Number:** MAR041142

MADEP Transmittal Number: W-041030

**Annual Report Number** 

& Reporting Period: No. 5: May 1, 2007 to April 30, 2008

# NPDES PII Small MS4 General Permit Annual Report

#### Part I. General Information

Contact Person: Robert McGhee Title: Highway Superintendent

Telephone #: 508-695-9131 Email: rmcghee@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:

#### 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. The Town enlisted the services of an environmental consultant to review the progress of the SWMP and assist with the preparation of this annual report.

### **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 5 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.	Consistent with Permit Year 4, flyers were placed on display and made available to residents at the Town Hall, Library, Water Department, and the DPW office. A stormwater survey was distributed to residents and 8 surveys were returned. Stormwater cards were hand delivered to residents in neighborhood with issues of dog waste in catch basins.	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.
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 will be determined. Presentation at "Touch the Trucks" event, including flyers, stickers and stormwater public education video. Over 200 children in attendance.	Develop and implement an alternative BMP to address public education for students.
1-3	Stormwater flyer to community businesses	Board of Public Works	Distribute to a minimum of 50% of businesses with storm water logo displayed by half of the businesses receiving the flyer.	No significant progress has occurred on this task during this permit year.	Identify a task manager to distribute stormwater flyers to businesses using the existing SuAsCo materials.
Revised		BPW, PB, CC, ZBA			

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5	Planned Activities – Next Permit Round
1-4	Storm water media campaign	Board of Public Works	Four press releases generated and issued to local media.	The Stormwater Committee began provided a stormwater education table for the National Public Works Week	Display stormwater education materials (handouts, fact sheets, brochures, video, etc.) at a table for
Revised		BPW, PB, CC, ZBA	to local media.	event in May 2008, including flyers, handouts and a video presentation This event was advertised to the public. Over 300 people (including 200 children) in attendance.	the May 16, 2009 event for "National Public Works Week". Utilize materials from the SuAsCo media kit. Generate press releases and send to local media outlets using the "Stormwater Matters" power point presentation and media tool kit from SuAsCo.
1-5	Stormwater video	Board of Public Works	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 a National Public Works Week event.	The stormwater video will be played at the stormwater education table for the May 16, 2009 public event for "National Public Works Week".  Will continue to seek additional events and the local cable channel to
Revised		BPW, PB, CC, ZBA			show the video.

### 1a. Additions.

	Community	Board of Public	Annual Hazardous	Two Hazardous Waste Collection	Continue advertising and hold at
1-6	participation/Household	Works	waste day (depends on	Events were held in September 2007	least one Hazardous Waste
	hazardous waste		funding).	and in April 2008. The events were	Collection Event.
	collection			advertised in the local paper and on the	
Revised		BPW, PB, CC,		Town cable channel.	
		ZBA			
	Community yard waste	Board of Public	Volume of yard waste	1,600 cubic yards of yard waste was	Continue accepting, composting and
1-7	composting	Works	composted.	accepted from residents for	tracking the volume of yard waste.
Revised		BPW, PB, CC,		composting. The composting service	Continue to advertise the program
		ZBA		was advertised in the local paper and	through press releases and local
				on the Town website.	cable.

# 2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5	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 staff to outline the program needs and address BMP requirements of program	Continue holding Committee meetings and evaluate the progress of the SWMP.
2-2	Community Hotline	Board of Public Works	Hotline established, record of calls and problems remedied.	The Town received 18 calls related to stormwater and all issues were addressed. Most calls were related to	Continue logging calls to address stormwater issues.
Revised		BPW, PB, CC, ZBA		flooding or drainage system repairs.  Calls were tracked using Cartegraph  Call Link software.	
2-3	Stormwater traveling display	Board of Public Works	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.	Continue to post the display at various locations.
Revised		BPW, PB, CC, ZBA	- 2		
2-4	Stormwater poster contest for fifth grade students	Board of Public Works	Contest held, entries received, judged & displayed.	This activity was completed in Permit Year 3.	No further action is planned at this time.
Revised		BPW, PB, CC, ZBA			
2-5	Stormwater photo contest for high school students	Board of Public Works	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.
Revised		BPW, PB, CC, ZBA			
2-6	Hold a local multi- community stormwater summit special event and advertise	Board of Public Works	Summit held, attendance records, agenda and resulting action items.	No significant progress has occurred on this task during this permit year.	Evaluate resources to conduct a local stormwater event.
Revised		BPW, PB, CC, ZBA			

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 5	Next Permit Round
		Name			

	Participate in SuAsCo	Board of Public	Participate; distribute	No significant progress has occurred	Coordinate with SuAsCo and
2-7	stormwater super summit	Works	stormwater self-test to	on this task during this permit year.	evaluate resources to conduct a
	& evaluate public		75% of town		stormwater super summit or other
	awareness of stormwater		residents, compile and		public involvement activity.
			consider test results.		
Revised		BPW, PB, CC,			
		ZBA			

### 2a. Addition.

	Stream Cleanup	Board of Public	Amount of	Cleanup activities for the Ten Mile	Continue improvements to the
2-8	Activities Along the Ten	Works	trash/debris removed.	River from Whitings Pond to Falls	stormwater discharges to Falls Pond.
	Mile River			Pond consisted of debris removal and	Review and update the Ten Mile
Revised		BPW, PB, CC,		sediment cleaning at outfalls. Town	River cleanup plan and schedule.
		ZBA		resources were dedicated to other	Pursue additional projects and
				stormwater problems throughout the	develop an annual maintenance plan.
				year. Funding was obtained to address	Update residents with the progress
				stormwater discharges to Falls Pond	of the project and consider an annual
				and reduce sediment loading.	river cleanup event to maintain the
				Discharge issues were address in 2008.	restored areas with community
					participation once the annual
					maintenance plan is developed.

# 3. Illicit Discharge Detection and Elimination

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 5	Next Permit Round
		Name			
	Illicit discharge bylaw	Planning Board,	Present bylaw to	The draft proposed amendments to the	Finalize and adopt the proposed
3-1		Conservation	Town Meeting in year	Town's Sewer Use Regulations were	amendments to the Sewer Use
		Commission,	3.	reviewed by the BPW and Town	Regulations.
		ZBA, Board of		Counsel. However, the amendments	
		Public Works		have not been finalized and approved.	
Revised					
DMD	DMD D	D 21.1.	Manageralia Canto	Programme Conflex	Diamond A -42-242 m
BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 5	Next Permit Round
		Name			

	System mapping	Board of Public	Locate all discharges,	The drainage mapping database was	Evaluate maintenance requirements
3-2	development	Works	complete system map	updated with ongoing inspection results	(see BMPs 6-1 & 6-2) and update
J-2	acveropment	WOIKS	& databases, and add	related to drainage structure	maintenance schedules. Continue
			soil and land use data	maintenance (e.g., catch basin,	updating map as new drainage
			to base maps.	manhole & pipe conditions). The	system information becomes
			to vase maps.	drainage system in Route 1 (owned by	available.
				MassHighway) was field verified and	avanaut.
Revised				the GIS map was updated to better	
				understand the Town's drainage system	
				in this area.	
	Inspect & sample town	Board of Public	Inspect all discharges,	Routine outfall inspections were	Outfall inspection training for Public
3-3	drainage system	Works	sample and test flows	completed for maintenance purposes.	Works employees is scheduled to
3-3	discharges	WOIKS	that indicate an illicit	GPS equipment was obtained, but no	occur in 2008. Dry weather outfall
	uischarges		discharge may be	specific outfall screening and/or testing	inspections and flow sampling will
			present.	for illicit discharges occurred due to a	begin, as weather permits, until all
Revised			Train Public Works	high turnover in Highway Department	outfalls have been properly screened.
10 11500			employees to inspect	staff.	Outfalls will be sampled as budget is
			outfalls.	Starr.	available.
	Illegal dumping	Board of Public	# of illegal dumps	The Town received 3 calls from	Continue logging calls to address
3-4	education	Works			illegal dumping and stormwater
3-4	education	WORKS	reported, # of penalties, # of rewards	residents regarding illegal dumping of	issues as they arise.
			to citizens who	grass clippings and leaves by neighbors. The Town discovered	issues as they arise.
			reported, # of dumps	improper disposal of vehicle wash	
			cleaned.	water at Mad Mike's truck and car	
Revised			cieanea.		
Kevised				wash. The Town has prohibited wash	
				water discharges and is working with	
				the facility to develop a proper disposal method.	
	Contin avatam	Doord of Hanki	# and location of		Evoluate inspection data and acuti
2.5	Septic system controls	Board of Health		Septic system maintenance was	Evaluate inspection data and septic
3-5			systems, # inspected	mandated in permit year 1. The Board	system locations with respect to
			regularly, # of people	of Health continued to inspect septic	water quality concerns at receiving
			trained to inspect, # of	systems. A base map of septic systems	waters and identify potentially failed
Revised			failed systems.	and data summary (e.g., age, #	systems. Develop and implement a
Kevised				pumpouts, Title 5 failures) were	strategy to address failed systems.
				developed as part of the CWMP	
				developed in Town.	

### 3a. No additions at this time.

### 4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5	Planned Activities – Next Permit Round
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.
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 approximately 105 erosion control inspections that resulted in 6 enforcement actions. A consultant was engaged to do subdivision inspections for permit compliance.	Continue tracking & inspecting construction sites.
Revised					

### 4a. Addition.

	Establish a Procedure	Board of Public	# of issues reported,	The DPW did not receive any calls	Continue logging calls to address
4-3	for the Receipt of	Works	record of enforcement	regarding construction sites; however,	construction site erosion issues.
	Information Submitted		actions	the Conservation Commission	
	by the Public			conducted numerous site inspections to	
Revised				address construction site erosion issues	
				(refer to BMP 4-2). Calls were tracked	
				using Cartegraph Call Link software.	

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

BMP ID #	BMP Description  Bylaw for post construction runoff	Responsible Dept./Person Name  Planning Board, Conservation Commission, ZBA, Board of Public Works	Measurable Goal(s)  Present bylaw to Town Meeting in year 3.	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) 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.	Planned Activities – Next Permit Round  A final meeting and public input hearing will be held with the Bylaw Study Committee to finalize the bylaw. Present the bylaw at the Fall 2008 Town Meeting. Update the
Revised			Bylaw to Town Meeting in year 4.	The Town continues to review subdivision plans for the most appropriate stormwater BMPs that will be protective of water quality.	Stormwater Regulations as appropriate to accompany the finalized bylaw.
5-2	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	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
Revised			n. wasa quang.	Town's GIS system to prioritize and track drainage system maintenance.  DPW evaluated maintenance needs at outfalls to the Ten Mile River and repaired or replaced 8 headwalls.	privately owned land without easements.
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

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5	Planned Activities – Next Permit Round
6-1	Predictive catch basin program	Board of Public Works	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	Continue inspection and cleaning program and update database. Continue to evaluate cleaning locations and schedules to prioritize
Revised		Consultant		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.	accumulation areas based on quantity versus location. Utilize the new truck to clean catch basins at an appropriate frequency.
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 were swept at least once and sediment volumes were tracked by street to evaluate quantities generated per location. The GIS database was updated with new data from 2007. The	Continue entering sweeping data into the GIS database and evaluate priority sweeping needs based on quantity versus location. Continue road sweeping program and increase
Revised				Town began to evaluate accumulation areas based on quantity versus location. The Town utilized the new street sweeper purchased last year to sweep streets within a shorter time period.	sweeping frequencies as appropriate and as budget and staff time allows.
6-3	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.  BMPs were not inspected for retrofit	Complete improvements to stormwater discharges along the Ten Mile River and Falls Pond.
Revised				opportunities; however, a storm drain system retrofit was completed at Charles Street to install a deep sump catch basin and swale to remove the pipe discharge to the nearby water body. Chapter 90 funding was approved for storm drain system repairs at 15 sites.	Implement retrofits of the existing storm drain system as opportunities arise. Inspect BMPs for retrofit/improvement opportunities and incorporate information from BMP 5-2. Evaluate potential BMP retrofits with existing maintenance needs and prioritize the most costeffective 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. No funding was available to complete training efforts.	GPS equipment and outfall inspections training for Public Works employees is scheduled to occur in 2009. Conduct a training session for pollution prevention and good housekeeping as funding is available.
	Develop an Inspection	Board of Public	Database Program,	The town inspected all outfalls/culverts	Continue to maintain the storm drain
6-5	and Maintenance Plan	Works	Records of inspections	using the standard inspection forms	system based on inspection results.
	for the Drainage	***************************************	and maintenance.	previously developed. The GIS	Continue to evaluate and prioritize
	System			database was updated with recent	maintenance needs with emphasis on
Revised				inspection data related to drainage	water quality benefits. Incorporate
				system structures and catch basin and	procedures for addressing water
				street sweeping data. The Town	quality improvements for flood
				continued to evaluate drainage system	control projects.
				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 15 sites.	
	Evaluate Town-wide	Board of Public	Evaluation completed	DPW requested funding for a larger	Pending approval of funding,
6-6	Municipal Operations	Works	in year 4 and	salt storage shed and two additional	construct improvements at the Public
	for Pollution Prevention		recommendations	vehicle storage/maintenance bays at the	Works Facility. Conduct self-
	Options		implemented in year 5.	Public Works Facility. These	evaluation and develop BMPs, as
Revised				improvements were proposed to	appropriate, to address potential
				minimize potential stormwater impacts	stormwater impacts.
				at the site due to salt and vehicle	
				storage, as well as assist with facility	
				operation.	

#### 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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Round
Revised					

#### 7a. Additions

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

#### 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. Some staff positions have been filled and the Stormwater Committee is being reformed. Once the Stormwater Committee is better formed, a staff member will be appointed to begin evaluating data related to existing impaired waters. This task relies on the progress of other SWMP tasks such at outfall screening. 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. Four 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 and the Ten Mile 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. The Highway Department and Board of Health were able to stop the facility and require proper disposal of the wastes.

### 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	
<ul><li>days sponsored</li></ul>	(#)
<ul><li>community participation</li></ul>	(%)
<ul><li>material collected</li></ul>	(tons or gal)
School curricula implemented	(y/n)

# Legal/Regulatory

	In Place Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
<ul> <li>Illicit Discharge Detection &amp; Elimination</li> </ul>				
Erosion & Sediment Control				
Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")	<u> </u>	•		•
<ul> <li>Illicit Discharge Detection &amp; Elimination</li> </ul>				
Erosion & Sediment Control				
<ul> <li>Post-Development Stormwater Management</li> </ul>				

## **Mapping and Illicit Discharges**

Outfall mapping complete	(%)
Estimated or actual number of outfalls	(#)
System-Wide mapping complete	(%)
Mapping method(s)	
<ul><li>Paper/Mylar</li></ul>	(%)
■ 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%" = eliminat	
<ul> <li>Fertilizers</li> </ul>	(lbs. or %)
<ul> <li>Herbicides</li> </ul>	(lbs. or %)
<ul> <li>Pesticides</li> </ul>	(lbs. or %)
Anti-/De-Icing products and ratios	% NaCl
	% CaCl <sub>2</sub>
	% MgCl <sub>2</sub>
	% 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)