

Municipality/Organization: Southbridge, Massachusetts

EPA NPDES Permit Number: MAR041161

MaDEP Transmittal Number: W-041270

Annual Report Number

& Reporting Period: No.10: May 1, 2012-April 30, 2013

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Heather A. Blakeley

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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: Christopher Clark

Title: Town Manager

Date: 5/1/13

Part II. Self-Assessment

The Town of Southbridge has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions. As discussed in last year's report, the Town of Southbridge continues to have staff changes that impact the management of various programs in Town. In April 2012, a new Chief of Engineering Services was hired. Improvements have continued to be made throughout the Town. Following the tornado event that hit a portion of Town last year, the Town realized the importance of protecting our waterways against erosion resulting from deforestation. The Town took action, received grants and worked with many volunteers in order to remove many fallen trees from waterways and plant new trees in affected areas. Plantings have just started and stormwater improvements are planned for Charlton Street and Brookside Road with construction anticipated next year. An additional stormwater improvement project is planned for Torrey Road. The Town has also joined a consortium for stormwater public outreach and education and will be enhancing efforts in these areas in the next permit term.

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 10	Planned Activities – Permit Year 11
1A	Public Outreach	Public Works Dept.	Reach 5 th grade	No presentation held during this reporting term.	Make presentation on water quality to selected grade 5 students.
Revised	<i>Stormwater Education for Students</i>			However, DPW brought equipment (street sweeper) to the elementary school for students K – 5 th to see and understand how it cleans streets.	Consider additional opportunities to educate the public about DPW operations.
1B	Public Outreach	Water Dept.	Reach all water accounts (4,000 households)	Mailed annual Water Quality Report to residents which details drinking water quality for the Town.	Continue Annual Water Quality Report mailing.
Revised					

1a. 7 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
1C Revised	Stormwater Press Release	DPW / Board of Health	Annual stormwater newspaper article	Advertised the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings. Events were held on June 30, September 29, December 1, and March 30. Posted street sweeping on the Town web-site.	Advertise the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings. Post street sweeping on Town web-site.
1D Revised	Distribute educational flyers and advertize Household Hazardous Waste Event	Board of Health	Distribution of Flyers	Household Hazardous Waste flyer advertisements were made available at municipal buildings. The events were advertised in the local newspaper in lieu of mailing the flyers with water bills.	Advertise the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings.
1E Revised	Develop Stormwater Section of Town Website	DPW and Town Website Manager	Measure number of hits annually.	Posted and updated the street sweeping schedule weekly on the Town web-site and the local cable network.	Continue to post and update the street sweeping schedule weekly on the Town web-site and the local cable network.
1F Revised	Broadcast Town Council Meetings to update progress of the Phase II Program	DPW and Channel 12	Broadcast of Town Council meetings	Televised Town Council meetings on local cable channel. The DPW Director gave a presentation to the Town Council about DPW operations, including stormwater.	Continue to broadcast any stormwater updates at the Council meeting on local cable.
1G Revised	Assist with “Replanting Our Roots” initiative in tornado damaged areas.	DPW, Mass. Dept. of Cons. and Rec. and volunteers	Planting of 77 trees in tornado deforested area.	Volunteers and govt. agencies worked together to plant trees in areas prone to flooding and erosion due to the deforestation by the 6/1/11 tornado. 3 Phases were planned: tornado damage; downtown; and public lands. Phase 1 is complete and work began on Phase 2.	Continue phased planting plan and track results of effort and public outreach/participation.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
1H	Obtained a \$5,000 grant and removed tornado damaged trees from flood prone areas.	DPW	Removal of many trees from flood prone areas.	Worked with private property owners to allow the DPW's contractor to remove damaged trees from Cady Brook and a drainage ditch.	Continue to pursue improvements for Charlton Street and tree debris removal using grant funds. Track results of effort and public outreach/participation.
Revised				Obtained a \$266,000 grant for Charlton Street drainage and an additional \$25,000 for tree debris removal.	
1I	Created and distributed Stormwater pamphlets.	DPW	Posted in municipal offices and handed out at 6/23/11 Meet and Greet.	Handouts were posted at Town Hall and DPW.	Continue to post at public places and identify opportunities to hand out pamphlets.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
2A	Monitor Streams	Conservation Commission	Monitor 1 stream annually	Each year, a group of volunteers working with "The Last Green Valley" tests 8 locations in the Town including the following water bodies; Quinebaug River, Dean Brook, Cohassee Brook, Lebanon Brook, and McKinstry Brook. Waters are tested for dissolved oxygen, turbidity, conductivity, ph and temperature. Color, odor, plants, animals, and trash are recorded. Final results are organized onto a spreadsheet at the end of the year.	Continue stream monitoring program. http://www.tlgv.org/preserve/water-quality-monitoring2/water-quality-monitoring.html
Revised					

2a. 4 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
2B	Neighborhood Cleanup	DPW, Building, Fire, Police, Recycling Coordinator, church groups, Neighborhood groups	Weekly neighborhood walkthroughs during fair weather months	Performed weekly neighborhood walks during Spring through Fall. Dept. Heads targeted different neighborhoods on Friday mornings. DPW inspected for stormwater issues such as stormwater structures, evidence of flooding, trash, pet waste, etc. Walks are publicized in advance and neighborhood participation was encouraged.	Continue to perform neighborhood walks and target stormwater impacts. Evaluate methods for tracking neighborhood participation.
Revised					
2C	Community Meet and Greet	DPW	DPW stormwater information	Town is in the process of creating a new Master Plan. As a result, there have been several community focus meetings.	Continue to attend similar events and offer water quality information to residents.
Revised					
2D	Assist with “Replanting Our Roots” initiative in tornado damaged areas.	DPW, Mass. Dept. of Cons. and Rec. and volunteers	Planting of 77 trees in tornado deforested area.	Volunteers and govt. agencies worked together to plant trees in areas prone to flooding and erosion due to the deforestation by the 6/1/11 tornado. Refer to BMP 1G.	Track results of effort and public participation.
Revised					
2E	Assist with trash removal from annual Earth Day Cleanup.	DPW	Clean up debris and advertize in newspaper.	Assisted volunteers by picking up the trash from the annual Earth Day Cleanup event. 25 bags of trash were removed at this year’s cleanup.	Assist volunteers by picking up the trash from the annual Earth Day Cleanup event. Begin tracking public participation at event.
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
3A	Map Storm Sewer System	DPW	Map Outfalls	100% of all outfalls and the stormwater system have been mapped. Map is available on the Town’s web-site.	Maintain map.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
3B	Amend Drainage ByLaw	Town Council	Modify Existing Bylaw	No activity.	Review and modify the existing “draft” bylaw and move it forward to Town Council.
Revised					
3C	Inspect Outfalls	Health Agent	Identify Illicit Discharges	Periodic random outfall inspections were performed as part of the neighborhood walks (refer to BMP 2B). Four outfalls at Torrey Road, Charlton Street, Brookside Road and the corner of Green Ave. and Rose Street were evaluated for any needed improvements. No illicit discharges were identified.	Continue to inspect selected major outfalls for potential illicit discharges. Design and construct outfall improvements at Torrey Road, Charlton Street and Brookside Road.
Revised					

3a. 3 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
3D	Household Hazardous Waste Collection Events	Board of health, Recycling Coordinator, Casella Waste Systems	Annual Household Hazardous Waste Day	Southbridge hosts four Household Hazardous Waste (HHW) disposal events. Events were held on June 30, September 29, December 1, and March 30. Flyers were made available at municipal buildings. Volunteers counted and tracked cars: June 30, 2012 – ~200 cars, the most popular items were CRT’s and paints/chemicals; Sept 29, 2012 – ~175 cars, main items were paints/chemicals; Dec 1, 2012 – ~80 cars, main item was CRT’s; Mar 30, 2013 – ~180 cars, main items were CRT’s and paints/chemicals	Continue to advertize and host HHW collection events four times per year. Continue to track results and participation.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
3E	Establish Illicit Discharge Hotline	BOH / DPW	Number of phone calls	2 illicit discharges were identified and removed this year. Calls and complaints were handled by the BOH and DPW. Residents can fill out a complaint form to be recorded by Town personnel. Stormwater complaints are forwarded to the DPW.	DPW will continue to handle illicit discharge related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
Revised				The DPW documents the complaints and follows up on corrective actions. BOH enforces action as necessary.	
3F	A sewer lateral off of Elm St. was cracked and overflowing into a catch basin causing pollution in the downstream Cohasse Brook.	BOH	The pipe repaired and the overflow stopped.	As discussed in the Year 9 report, the DPW hired a contractor to repair the sewer break and charged the work back to the homeowners who failed to act.	Continue to address sewer main issues as they become known.
Revised				Similar projects have also been repaired (e.g. cracked sewer pipe in the Rite Aid parking lot on Marcy Street).	

4. Construction Site Storm water Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
4A	Control Erosion & Sedimentation	Town Council	Enact New Bylaw	Continued NOI erosion control enforcement as needed.	Review draft bylaw, revise as necessary and move it forward to Town Council.
Revised					

4a. 3 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
4B	Establish a procedure for the receipt of information submitted by the public.	DPW	Number of phone calls	<p>Calls and complaints were handled by the DPW. Residents can fill out a complaint form to be recorded by Town admin. personnel. Stormwater complaints are forwarded to the DPW. The DPW documents the complaints and follows up on corrective actions.</p> <p>Complaints identified 10 catch basins in need of repair and 1 oil spill (from a leaking car). All complaints were addressed and resolved by DPW. No calls were received for issues at construction sites.</p>	DPW will continue to handle stormwater related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
Revised					
4C	Construction Site Runoff Site Plan	Conservation Commission	Erosion control site plan	<p>Town regulations required erosion and sediment control plans for all projects requiring a Notice of Intent (NOI) to be submitted to the Conservation Commission for review prior to construction.</p> <p>The Conservation Commission also reviewed site calculations to check pre- and post- development stormwater runoff for compliance with the Massachusetts Stormwater Management Policy.</p>	Continue to require Conservation Commission review of proposed developments.
Revised					
4D	Conduct Inspections for erosion Control	DPW	Inspections performed and documented	The DPW performed inspections of all construction sites to ensure erosion controls were working properly. Subdivision sites were inspected at a minimum once per month.	Continue the current inspection program. Continue to document major erosion and sediment control issues which require enforcement.
Revised					

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 10	Planned Activities – Permit Year 11
5A	Regulate Post Construction runoff	Town Council	Amend Drainage Control Bylaw	Continued construction site erosion control enforcement as needed.	Review draft bylaw, revise as necessary and move it forward to Town Council.
Revised					

5a. 2 Additional Items

5B	Post-Construction Site Inspection	DPW	Inspections performed	Before accepting maintenance responsibility for new construction sites, the DPW performs a full inspection of public drainage systems. Due to the economy, no new systems were inspected this year.	Continue current inspection program. Continue to document the acceptance of new public drainage systems and incorporate the system into the Town drainage system map.
Revised					
5C	As-Built Plans	DPW	Plans documenting construction	DPW requires as-built plans to be submitted upon completion of construction.	Continue to require and receive as-built plans for all projects.
Revised					

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 10	Planned Activities – Permit Year 11
6A	Street Sweeping	DPW	Sweep Streets Annually	All streets swept annually between April and June 2012 and 623.87 tons were collected. Collected material was disposed at the Southbridge landfill. Sweeping schedules were updated weekly and posted on the website and on the local access channel. Priority areas are identified and repeated as needed though out the year.	Continue to sweep all streets annually and post on website and local cable access.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
6B	Catch Basin Cleaning	DPW	Clean critical basins annually	The DPW cleaned all catch basins in the Town. Collected material was disposed at the Southbridge landfill.	Continue annual catch basin cleaning program. Critical basins cleaned first and more than once as needed.
Revised					Utilize tablet from the stormwater consortium to track data from catch basin inspections.

6a. 6 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
6C	Storm Drain System Inspection and Maintenance	DPW	Inspect and maintain storm drain system at least annually	Outfalls were inspected as outlined in BMP 3C. Catch basins were inspected for issues when cleaned by DPW staff.	Continue outfall and catch basin inspections and maintenance. Inspect all catch basins for structural deficiencies when cleaned by DPW staff.
Revised				As discussed under BMP 4B, complaints from the public identified 10 catch basins in need of repair. Approximately 35 structures were rebuilt last year.	Utilize tablet from the stormwater consortium to track work required and completed.
6D	Ensure Covered Storage for Winter Salt	DPW	All salt is covered.	All salt for winter storm operations was covered in the salt shed at the DPW building.	Continue to cover salt materials and track winter salting quantities.
Revised					
6E	Conduct Town Employee Stormwater Training	DPW	Develop pollution prevention workshop for municipal employees	No formal training performed specifically on the importance of stormwater maintenance. However, maintenance practices were discussed with staff as part of routine cleaning activities. One new operator was trained on stormwater maintenance practices and equipment.	Conduct training for DPW employees using resources from stormwater consortium.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
6F	Perform Neighborhood Roadway Trash Cleanups	DPW, Town Manager, Police, BOH	Amount of trash collected after weekly neighborhood walkthroughs	Southbridge roads were cleaned of trash and debris following the weekly neighborhood walkthroughs (see BMP 2B). Residents can contact the BOH to set up pickup times for bulk items at their homes. The items are disposed of at the landfill. Haz-Waste specialists are used as needed.	Continue neighborhood roadway cleanup and Earth Day cleanup.
Revised					
6G	Evaluate municipal facilities	DPW, Police, Fire	All municipal facilities evaluated and BMP's implemented within 3 years.	DPW and Police properly manage vehicle wash water. DPW has and utilizes a new wash bay facility. The Police wash their vehicles at the Red Carpet carwash on East Main St. Wash water is properly collected and disposed at both locations.	Continue vehicle washing program for the DPW and Police Dept.'s. Evaluate all remaining municipal facilities for stormwater pollution prevention needs.
Revised					
6H	Town purchased a new street sweeper	DPW	Maintain annual sweeping.	In permit year 9, the Town purchased a second street sweeper. The new sweeper continued to support the Town's commitment to street and sidewalk sweeping. The new technology is also more efficient and effective at cleaning the streets.	Continue existing street sweeping practices.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
Revised					

7a. 1 Additional Item

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7A	Develop a Water Quality Strategy for 303d waters	DPW, Conservation Commission	Summary of pollution prevention efforts, future needs, and responsible parties.	The Town continued with implementation of the existing SWMP to address impaired waters.	Continue to implement the existing SWMP. No further action is anticipated until the Phase II permit is renewed.
Revised					Review impaired water list and TMDLs as they are developed, along with information collected as part of the Phase II Stormwater Program and upcoming Phase II permit requirements to develop a water quality strategy to address impaired waters in Town.

7b. WLA Assessment

The Massachusetts Year 2010 Integrated List of Waters outlines several water bodies in Southbridge that are classified as category 5, meaning water bodies in need of a TMDL:

Name	Segment ID	Description	Size	Impairment Cause
Cady Brook	MA41-06	Charlton City WWTP outfall, Charlton to confluence with Quinebaug River, Southbridge.	5.1 miles	-Nutrient/Eutrophication Biological Indicators -(Low flow alterations)
Cohasse Brook	MA41-12	Southbridge through Wells Pond (formerly pond segment MA41053) to the confluence with the Quinebaug River, Southbridge	2.7 miles	-Aquatic Macroinvertebrate Bioassessments -Sedimentation/Siltation -Escherichia coli
Hatchet Brook	MA41-14	From the outlet of No. 3 Reservoir, Southbridge, to the confluence with the Quinebaug River, Southbridge	1.3 miles	-Escherichia coli
McKinstry Brook	MA41-13	Headwaters, east of Brookfield Road, Charlton (excluding intermittent portion) to the confluence with the Quinebaug River, Southbridge	7.3 miles	-Escherichia coli -(Debris/Floatables/Trash)
Morse Pond	MA41033	Southbridge	41.4 acres	-Oxygen, Dissolved -Aquatic Plants (Macrophytes)
Quinebaug River	MA41-02	Sturbridge WWTP outfall, Sturbridge to confluence with Cady Brook, Southbridge	6.5 miles	-Excess Algal Growth -Turbidity -(Debris/Floatables/Trash)

Quinebaug River	MA41-03	Southbridge WWTP outfall, Southbridge to dam just upstream of West Dudley Road, Dudley.	2.2 miles	-Other (unspecified nutrients) -Oxygen, Dissolved -(Physical substrate habitat alterations) -Fecal Coliform -Taste and odor -(Debris/Floatables/Trash)
Quinebaug River	MA41-09	From confluence with Cady Brook, Southbridge to Southbridge WWTP outfall, Southbridge.	1.3 miles	-Aquatic Macroinvertebrate Bioassessments -Ambient Bioassays - Chronic Aquatic Toxicity -Turbidity -(Debris/Floatables/Trash)

There are currently no TMDLs completed for waters in Southbridge. Water quality concerns associated with 303d waters are addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit.

Part IV. Summary of Information Collected and Analyzed

The Town needs to focus on the following items in the next permit year; public outreach to school kids, utilize the stormwater flyer, finalize and submit a stormwater bylaw to the Council for approval, provide stormwater training to DPW employees.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	(\$)	0

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	Unknown
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	One
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y

Household Hazardous Waste Collection Days		(Oil, tires, Batteries and Paint)	
▪ days sponsored		(#)	4
▪ community participation		(%)	635 cars
▪ material collected		(tons or gal)	See BMP 3D
School curricula implemented	(Flyers mailed to all homes)	(y/n)	N

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with “X”)				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with “X”)				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	206
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	20

Illicit discharges identified	(#)	2
Illicit connections removed	(#) (est. gpd)	2
% of population on sewer	(%)	85%
% of population on septic systems	(%)	15%

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	0
Estimated volume of stormwater recharged	(gpy)	Unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	>1
Total number of structures cleaned	(#)	2,379

Storm drain cleaned	(LF or mi.)	300 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	357.25 Tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	0

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	>1
Qty. of sand/debris collected by sweeping	(lbs. or tons)	623.87 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	(\$)	0
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	No reduction
▪ Herbicides (Roundup Pro)	(lbs. or %)	No reduction
▪ Pesticides	(lbs. or %)	No reduction

Anti-/De-Icing products and ratios	% NaCl	50%
	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	50%
Two mixtures for anti/deicing the roads:		
• 50%/50% NaCl and sand mix – most streets (75% of town)		
• ClearLane and sand (80% clean lane and/20% sand mix) – higher traffic/higher elevation (25% of town). Clearlane is a 99% NaCl product with 0.31 % of MgCl ₂ .		
• Clearlane has resulted in an overall reduction in the use of deicing materials.		
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y, not many

Automatic or Zero-velocity spreaders used	(y/n)	Y, mostly auto
Estimated net reduction in typical year salt application	(lbs. or %)	Unknown
Salt pile(s) covered in storage shed(s)	(y/n)	100%
Storage shed(s) in design or under construction	(y/n)	Complete