

Municipality/Organization: Town of Boylston

EPA NPDES Permit Number: MAR041095

MassDEP Transmittal Number: W-049574

**Annual Report Number
& Reporting Period:** Year 9
April 1, 2011 – March 31, 2012

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2011)

Part I. General Information

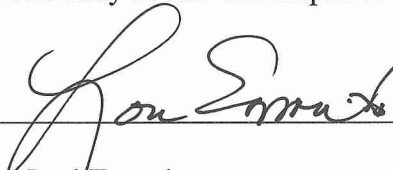
Contact Person: Chip Burkhardt **Title:** Chairman, Conservation Commission

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Mailing Address: 221 Main Street, Boylston, MA 01505

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: Lori Esposito

Title: Interim Town Administrator

Date: April 11, 2012

Part II. Self-Assessment

The Town of Boylston has completed the required self-assessment and has determined that our municipality has continued to implement BMPs and meet the General Permit requirements. The Massachusetts Department of Conservation and Recreation (DCR) continues to be a key partner for the Town to achieve many of the Small MS4 program requirements. Since the beginning of permit coverage, we would like to highlight the following accomplishments:

- Established a Stormwater Committee that communicates regularly;
- Maintained a low cost multi-media Public Education effort covering many stormwater topics for residents and businesses in Boylston by using a combination of DCR resources, free materials (from EPA and MassDEP), and custom-made materials;
- Completed outfall mapping and inventory in the Urbanized area;
- Screened all outfalls for dry weather flow. Identified and corrected one illicit discharge from a residential property.
- Developed and adopted two stormwater bylaws (*Illicit Discharge By-law* and *Stormwater Control Bylaw*) that meet the permit requirements for prohibition of illicit discharges, construction site runoff control, and post-construction stormwater management.
- Secured funding at Town Meeting for continued efforts under this General Permit over the next five years.

Planned activities for the next permit term have not been designated unless a BMP under this permit term was not fully completed or is an ongoing effort. Once the General Permit for the next five years is available from EPA, the Town will prepare and submit a Notice of Intent (NOI) for compliance with the new General Permit. During development of this NOI, Boylston will re-assess its stormwater management program to develop an effective program that meets requirements of the next General Permit and best leverages Boylston's limited staff and financial resources to achieve measurable results.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
PE-1	Partner with Local Organization	Stormwater Committee/Town Admin.	Y3-5: Identify local group/organization with interest in stormwater to partner with	Continued relationship with DCR on all aspects of stormwater within the Wachusett Watershed. DCR has agreed to take additional responsibility with regard to public education, public involvement, drainage mapping, construction site inspections, bylaw review and revisions, and municipal employee training.	Measurable goals for 2003 General Permit have been met. Invited a representative from DCR to attend the Stormwater Committee meeting on April 9, 2012 to review Permit Year 9 activities and discuss ways that the Town and DCR can collaborate in the future.
PE-2	Stormwater brochure	Town Admin.	Y2-5: Distribute one brochure per year to residents and industries in Boylston	DCR mailed letters explaining the MS4 permit and a flyer on Best Management Practices for the Food Service Industry to the Board of Health and to each food establishment licensed by the Board. A letter from DCR and a copy of MassDEP's Horsekeeper's Best Management Practices Guide were sent to sites in the Wachusett Reservoir watershed that have horses.	Measurable goals for 2003 General Permit have been met.
PE-3	Provide stormwater information at Town buildings	Town Admin.	Y2-5: Brochures will be available in the Town Hall	Dog waste brochures have been provided by DCR and are available at Town Hall and all local veterinarian offices. EPA's brochure, "Storm Water at Construction Sites," continues to be available at Town Hall.	Measurable goals for 2003 General Permit have been met.
Revised					
Revised					

PE-4 Revised	Pet Waste	Town Admin.	Y1-5: Post signs at public park lands for pet owners to properly dispose of waste	Continued maintenance of pet waste signs. Offered "pet waste" educational brochures (see BMP PE-3) at Town Hall. DCR Ranger Staff continue to hand out fact cards describing the link between dog waste and surface water quality problems to violators of the "no dogs on DCR Property" rule. The fact card also encourages waste pick up on personal property.	Measurable goals for 2003 General Permit have been met.
PE-5 Revised	Feature SW info on town public access cable station	Town Admin.	Y2-5: Feature SW info on cable station	No measurable goals were planned for Permit Year 9. No new stormwater information was run on the local cable station this year, but measurable goal was met in previous permit years.	Measurable goals for 2003 General Permit have been met. DCR has compiled educational materials, which includes five videos suitable for cable TV. Obtain a copy of these materials and continue to run stormwater videos on cable TV.
PE-6 Revised	Stormwater presentations at schools	Stormwater Committee and DCR	Y2-5: Include stormwater issues in yearly environmental presentations at High School	DCR Rangers and education staff met with Boylston Middle School students on two occasions to discuss watershed topics that include stormwater: • October 26, 2011. Program: History. 35 participants. 7th Grade. • October 27, 2011. Program: History. 35 participants. 8th Grade. History is a program that discusses public drinking water use and the construction of the Wachusett Reservoir at the end of the 1800s.	Measurable goals for 2003 General Permit have been met. DCR conducted these educational activities in past permit years and plans to continue as resources are available.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
PP-1	Partner with local organization	Stormwater Committee/Town Administrator	Y3-5: Identify group to partner with (DCR)	Continued cooperation and partnership with DCR (see PE-1).	Measurable goals for 2003 General Permit have been met.
PP-2	Place Traveling Display at various locations	Town Admin.	No activities planned for Y2-5.	No activity planned for Y9.	Measurable goal for 2003 General Permit was met in Y1.
PP-3	Incorporate SW into public meetings	Town Admin.	Y3-5: Present updates to the SWMP. Continue to invite stormwater discussion at one meeting per year.	Stormwater issues were discussed at periodic Stormwater Committee meetings and Conservation Commission meetings, which are open to the public.	Measurable goals for 2003 General Permit have been met. DCR will be sending letter to the Conservation Commission when an agricultural item is listed on meeting agendas. This expresses DCR's willingness to work with property owners to ensure no impacts occur to surface waters from manure or erosion runoff.
PP-4	Poster Contest	Town Admin.	Develop concept and approach local scouting troops.	The Stormwater Committee has contacted the scout troops in past years and given them opportunities to participate in the Stormwater Program. They have not been interested. Continued relationship with DCR and work with them on outreach to local school age children (BMP PE-6) to meet intent of this BMP.	Measurable goals for 2003 General Permit have been met. Boylston will continue to work with DCR on local school outreach programs.

PP-5	Stormwater Committee	Town Admin.	Y1-5: Review SWMP each year and coordinate efforts of all Town offices.	The Town's local stormwater bylaws are enforced by the Board of Health and the Conservation Commission. The Stormwater Committee continued to work together to manage the overall stormwater program and met as needed to implement planned stormwater management activities. The Committee also communicates frequently throughout the year by email and phone.	The Stormwater Committee will continue to work together to manage the overall stormwater program. Once a new Town Administrator is selected, the Stormwater Committee will inform him or her about the Town's stormwater program and ask that he or she participates in the Stormwater Committee.
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2a. Additions

PP-6	DCR Sponsored Events	DCR	Y9: Continue efforts to engage the general public in stormwater issues and watershed topics	An Earth Day event was held on April 30, 2011. Many topics and activities were related to stormwater management including storm drain stenciling, toxic use reduction, appropriate landscaping, and water conservation. A range of vendors attended and there was a wide selection of educational materials available for distribution including all DCR stormwater brochures. Display boards on topics such as dog waste, agricultural runoff, pharmaceutical disposal, and household stormwater pollution prevention were present. All area residents were encouraged to attend, and 80 took advantage of the opportunity.	Continue to sponsor events and activities for the general public as budget allows.
				The public education program "Get to Know Your Watershed" was organized by DCR in September 2011. It included a stormwater component and all DCR stormwater brochures were available. All area residents were invited but attendance was limited.	

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
ID-1	Drainage Mapping	Stormwater Committee	Y5: Update map with outfall locations in priority areas.	Drainage system mapping was conducted by a consultant on July 24, August 7, August 18 and August 19, 2009. A GPS unit was used to locate 171 drainage structures, including 14 outfalls, in the Urbanized Area outside of the Wachusett Reservoir Watershed. Structure locations and features were uploaded to the computer to generate a GIS-based map of the drainage system. This builds on DCR's mapping efforts in Boylston. They have mapped 365 drainage structures within the Wachusett Reservoir watershed, which is largely outside of the Urbanized Area at this time. The Highway Superintendent and the Town's stormwater consultant conducted one additional day of field investigation on October 14, 2010. This investigation focused on the potential outfall locations identified in 2009. Field personnel GPS-located seven (7) additional outfalls, four additional (4) drain manholes, and nine additional (9) catch basins. In total, the Town has located 191 drainage structures, including 20 outfalls. (It was determined that one outfall from 2009 was actually a culvert.)	Measurable goals for the 2003 General Permit have been met. All known outfalls in the Urbanized Area have been mapped.

ID-2 Revised	Eliminate Illicit Discharges	DPW and Board of Health	Y3-Y5: Implement Plan	All outfalls in Boylston's regulated urbanized area have been inspected during dry weather conditions. No illicit discharges are suspected at this time.	Measurable goals for 2003 General Permit have been met. The Town's IDDE Program is ongoing. DCR personnel continue to look for illicit discharges or other stormwater problems during routine stream investigations and will pass on any relevant information to the Town.
ID-3 Revised	Develop and implement an illicit discharge by-law	Board of Health and Stormwater Committee	Y4: Present by-law at Town meeting and finalize Y5: Implement and enforce by-law.	The Illicit Discharge By-law was adopted at Annual Town Meeting on May 4, 2009. This by-law prohibits non-stormwater discharges, including illegal dumping, into the MS4 and includes enforcement procedures and actions. The Board of Health is responsible for implementing and enforcing the by-law.	Measurable goals for 2003 General Permit have been met. Continue to implement and enforce the Illicit Discharge By-law. A review of local bylaws and regulations is underway by DCR staff to make sure that existing regulatory mechanisms comply with this control measure. DCR will inform the Town if they suggest any modifications to the Illicit Discharge Bylaw.
ID-4 Revised	Educate citizens	Board of Health	Y3: Notify public of IDDE plan Y4: Notify public of upcoming IDDE by-law Y5: Notify public of new by-law in place Y6: Notify public of upcoming IDDE by-law	No additional activities planned for Permit Year 9. Measurable goal met in prior permit year.	Measurable goals for 2003 General Permit have been met.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
CS-1	Develop and implement Construction Site Runoff Control Program	Con. Com.	Y3-Y5: Implement Construction Site Runoff Control Program	The Stormwater Control Bylaw was adopted on October 16, 2006. The Stormwater regulations were adopted by the Conservation Commission on December 17, 2007. Construction site runoff control measures are implemented through the stormwater permitting process. The Conservation Commission or their authorized agent inspects all construction sites that require a local Stormwater Management Permit or Wetlands Notice of Intent. DCR staff inspected large construction sites (disturbing one acre or more) during wet and dry weather for compliance with stormwater standards. A total of 16 dry inspections and 3 wet weather inspections were completed on two sites in Boylston. No significant problems were identified and all minor necessary remedial activities were completed promptly.	Measurable goals for 2003 General Permit have been met.
Revised					

CS-2 Revised	Develop and implement Erosion and Sediment Control By-law	Con. Com	Y5: Implement by-law	The Stormwater Control Bylaw was adopted on October 16, 2006. The Stormwater regulations were adopted by the Conservation Commission on December 17, 2007. Construction site runoff control measures are implemented through the stormwater permitting process.	Measurable goals for 2003 General Permit have been met. A review of local bylaws and regulations is underway by DCR staff to make sure that existing regulatory mechanisms comply with this control measure. DCR will inform the Town if they suggest any modifications to the Stormwater Management Bylaw or Regulations.
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5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
PC-1	Develop and implement Post-Construction Runoff Control Program	Con. Com.	Y3-5: Implement Post-Construction Runoff Control Program	The Stormwater Control Bylaw was adopted on October 16, 2006. The Stormwater regulations were adopted by the Conservation Commission on December 17, 2007.	Measurable goals for 2003 General Permit have been met.
Revised				Post-construction runoff control measures are implemented through the stormwater permitting process.	
PC-2	Develop and implement post-construction runoff regulations	Planning Board & Con. Com.	Y4: Implement by-law. Y5: Review effectiveness of by-law and enhance if necessary.	The Stormwater Control Bylaw was adopted on October 16, 2006. The Stormwater regulations were adopted by the Conservation Commission on December 17, 2007.	Measurable goals for 2003 General Permit have been met.
Revised		Con. Com.		Post-construction runoff control measures are implemented through the stormwater permitting process.	As the Conservation Commission continues to issue and enforce Stormwater Control Permits, the by-law and regulations will be enhanced as deemed necessary.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
GH-1 Revised	Employee training program	Highway Dept.	Y2-Y5: Hold one good housekeeping workshop per year at Highway Department	During daily meetings with personnel, good housekeeping measures (such as drain system maintenance and identifying illicit discharges) are discussed as they relate to stormwater practices. Two members of the Stormwater Committee attended the <i>MA Statewide Stormwater Seminar</i> hosted by the Central Massachusetts Planning Commission on October 25, 2011 at Boylston Town Hall. Topics included: Stormwater Ordinances/Bylaws, Building an Effective Stormwater Maintenance Program, and Stormwater Utilities.	Measurable goals for 2003 General Permit have been met. DCR has developed a Stormwater Pollution Prevention training for DCR maintenance staff and municipal employees in the watershed communities.
GH-2 Revised	Catch basin cleaning	Highway Dept.	Y1-Y5: Highway Department will clean each catch basin in the urbanized area of Town once per year.	The Highway Dept. cleaned catch basins twice per year and as needed to address complaints and localized drainage issues. Outfalls are also cleaned as needed.	Continue to clean catch basins at least once per year in the urbanized area of Town.
GH-3 Revised	Street sweeping	Highway Dept.	Y1-Y5: Highway Dept. will sweep every street in the urbanized area once per year	Highway Dept. swept streets once in Spring and as needed.	Continue to sweep streets in the urbanized area at least once per year.

GH-4	Recycling program	Highway Dept.	Y1-Y5: Continue Town's waste oil collection	Continued to collect waste oil at the Town Barn to burn in the furnace. Residents of the seven Wachusett towns, including Boylston, may bring recycling and bulk items to the Wachusett Watershed Regional Recycling Center. Four Household Hazardous Waste Collections were held on the following Saturdays from 8am-11am: April 16, June 18, September 17, and November 19, 2010.	Continue acceptance of waste oil at the Highway Barn. Continue partnership with regional collection center. For more Household Hazardous Waste Collections are scheduled in 2012; May 19, June 16, September 15, and November 17.
Revised					
GH-5	Municipal Operation and Maintenance Plan	Highway Dept.	Develop schedule for municipal maintenance activities	The Town conducts routine operations and maintenance of infrastructure, roadways, and town-owned properties. A formal written schedule for municipal activities was not developed in anticipation of enhanced requirements in the reissued General Permit. The Town has required preparation of Operation & Maintenance Plans that include stormwater management and pollution prevention at some private properties in Town, including the new Regional High School, the Frito Lay facility, and the Cyprian Keyes Golf Club. O&M of private BMPs is also a requirement for all development and redevelopment projects that require a local Stormwater Management Permit.	The Highway Department plans to develop a written inventory of municipal operation and maintenance activities and Town owned and operated properties in the Urbanized Area before the General Permit is reissued. The Conservation Commission will continue to require and enforce long-term operation and maintenance of private stormwater BMPs through local permits. DCR produced a single page "DPW Good Housekeeping" list that addresses issues related to vehicle and equipment maintenance, road and infrastructure work, sand and salt storage, detention basins, and field and park maintenance. This will be made available to all municipal employees.
Revised					

GH-6	Reporting	Highway Dept.	Record stormwater management activities	The Highway Superintendent prepares a weekly report of Highway Dept. activities for the Town Administrator, which includes stormwater related activities.	Measurable goals for 2003 General Permit have been met. Continue Highway Department weekly reporting to the Town Administrator.
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
TMDL-1	Check current impairment lists	DPW	Y1: There are no completed TMDL studies for receiving waters in Boylston's urbanized area. Y2-Y5: Check current MA Integrated List of Waters each Winter for newly listed waters	Reviewed Proposed Massachusetts 2012 Integrated List of Waters and MassDEP TMDL website. A Draft pathogen TMDL report is available for the Nashua River Watershed, which includes Malagasco Brook. However, Malagasco Brook is no longer listed as Category 5 for pathogens based on new assessment. Is it still listed as impaired for macroinvertebrates and nutrients/eutrophication. There is a final TMDL of Phosphorus for Selected Northern Blackstone Lakes, including Newton Pond.	Measurable goals for 2003 General Permit have been met.
Revised					
TMDL-2	Malagasco Brook Pathogens	Stormwater Committee	Y3: Partner with DCR	Outfalls along the Brook have been located and mapped. DCR continues to monitor the brook.	Since bacteria are no longer the cause of impairment, Boylston will address other pollutants of concern through the Stormwater Program.
Revised					

7b. WLA Assessment: N/A

Per Part I.D.3. of the General Permit, "if the MS4 is required to implement storm water waste load allocation provisions of the TMDL, the permittee must assess whether the WLA is being met through implementation of existing storm water control measures or if additional control measures are necessary. The permittee's assessment of whether the WLA is being met is expected to focus on the adequacy of the permittee's storm water controls (implementation and maintenance), not on the response of the receiving water."

There is a final TMDL of Phosphorus for Selected Northern Blackstone Lakes, including Newton Pond within Boylston and Shrewsbury. Because the TMDL is for a pollutant potentially found in storm water discharges from Boylston's MS4, their Stormwater Management Program includes BMPs that address the load allocation. The TMDL includes a target in-lake total phosphorus concentration is 25 ppb and a load allocation of 257 kg/year, as shown below in Table 4k from the TMDL report.

Table 4k. Newton Pond MA51110 TMDL Load Allocation.

Source	Current TP Loading (kg/yr)	Target TP Load Allocation (kg/yr)
Forest	88	88
Agriculture	10	7
Open Land	30	21
Residential (Low den.)	33	23
Residential (High den.)	128	90
Comm. Indust.	33	23
Septic System	8	5
Other	0	0
Total Inputs	330	257

At this time, Boylston is making steady progress towards meeting the load allocation through implementation of existing BMPs. Boylston's Stormwater Management Program includes a number of existing stormwater control measures, as reported in the above Annual Report, that address pollutants of concern in water quality impaired waters and total phosphorus. The BMPs identified under Minimum Control Measures (MCMs) 1 through 6, including, but not limited to, those relating to public education, pet waste, illicit discharges, construction and post-construction inspections, employee training, and the good housekeeping measures such as street sweeping and catch basin cleaning, all help prevent phosphorus from entering water bodies in Town.

At this time, the Town does not plan to add any BMPs to address the load allocation, but will consider additional BMPs to address the TMDL during development of the next NOI.

Part IV. Summary of Information Collected and Analyzed

DCR continued its routine monitoring in Boylston. Weekly monitoring for turbidity, temperature, E.coli, and conductivity occurred at four tributaries in town including one (Malagasco Brook) within the regulated urbanized area. Nutrients are collected six times per year at French Brook and Malagasco Brook.

The Town receives and annual report on Sewall Pond from the YMCA, who runs a summer camp there.

The Town of Boylston did not collect/analyze any additional water quality data for the Stormwater Management Plan during Permit Year 9.

Part V. Program Outputs & Accomplishments (OPTIONAL)

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

Programmatic

	(Preferred Units)		Response
	(y/n)	N	
Stormwater management position created/staffed			
Annual program budget/expenditures **	(\$)		Est. \$40,000
Total program expenditures since beginning of permit coverage	(\$)		Est. \$400,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)			General Fund, grants from EOE A

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	100% residential, 100% restaurants
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	N

Shoreline cleaned since beginning of permit coverage	(mi.)	-
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	4
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	Y

Legal/Regulatory

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

Mapping and Illicit Discharges

	(Preferred Units)		Response
Outfall mapping complete	(%)		100%
Estimated or actual number of outfalls	(#)		20 in UA
System-Wide mapping complete (complete storm sewer infrastructure)	(%)		100% in UA
Mapping method(s)			
▪ Paper/Mylar	(%)		
▪ CADD	(%)		100%
▪ GIS	(%)		100%
Outfalls inspected/screened **	(# or %)		0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)		100%

Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	1
% of population on sewer	(%)	0
% of population on septic systems	(%)	100

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	3
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100% → 19+ inspections
Tickets/Stop work orders issued **	(# or %)	1
Fines collected **	(# and \$)	\$400
Complaints/concerns received from public **	(#)	

Post-Development Stormwater Management

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

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
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$35,000 for catch basin cleaning and street sweeping combined
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vactor **	(%)	0%

(Preferred Units) Response		
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)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	Included in catch basin budget

• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 - owned
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers **	%	100%
• % Roads swept with vacuum sweepers **	%	0%

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	N/A
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented		
	(y/n)	

(Preferred Units)		Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl	NaCl – 500 tons
	% CaCl ₂	
	% MgCl ₂	Sand – 2,000 cubic yards
	% CMA	
	% Kac	
	% KCl	Protected area is along Rt 70, maintained by MassDOT.
	% Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	

Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Water Supply Protection

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