

APR 27 2015

Municipality/Organization: Town of Sharon, MA

EPA NPDES Permit Number: MA041061

MaDEP Transmittal Number: W-040625

Annual Report Number 12

& Reporting Period: April 1, 2014 -March 31, 2015

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NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Peter O'Cain, P.E.

Title: Town Engineer

Telephone #: (781)784-1525, ext 2316

Email: pocain@townofsharon.org

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: Fred Turkington

Title: Town Administrator, Town of Sharon, MA

Date: 4/14/15

Part II. Self-Assessment

The Town of Sharon, Massachusetts has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provision:

Item 2.8 was not specifically accomplished as a stream clean-up but three locations around water bodies were cleaned. Please refer to item 1.4 for details.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
1.1	Design and distribute S/W Educational Brochures	Town Engineer: Peter O'Cain Nancy Fyler – Neponset River	Mailing list of homes contacted	Information on improving and reducing water use sent in water bills and maintained on town's website.	Continue to educate the public through the town website, cable TV and through water bill mailings. Include specific stormwater education to mailing pamphlets.
Revised			All residents reached		
1.2	Recruit volunteers from mailing	Nancy Fyler Paid educator	List of volunteers	The Town has continued our education program with Ms. Nancy Fyler as a water educator in the Sharon School system. Ms. Fyler has organized a program that included the mailing of water conservation and quality information on a quarterly basis, in conjunction with the Sharon Water Department. Also, an annual "Water Quality Report" is mailed to every home in Sharon. The report includes an entire page of "Keeping Water Clean". Ms. Fyler is a member of the Neponset River Watershed Association.	Use our stormwater and water educator as a means of gathering volunteers for stream cleanups and continue public education projects. Utilize Boy Scouts to organize stenciling, public notices dissemination, stream cleanups and other stormwater measures.
Revised				The Sharon Recreation Director also organized a cleanup around three water bodies in May of 2014 – see also 1.4.	

Revised				water educator in the Sharon School system. Ms. Fyler has organized a program that included the mailing of water conservation and quality information on a quarterly basis, in conjunction with the Sharon Water Department. Also, an annual "Water Quality Report" is mailed to every home in Sharon. The report includes an entire page of "Keeping Water Clean". Ms. Fyler is a member of the Neponset River Watershed Association. The Sharon Recreation Director also organized a cleanup around three water bodies in May of 2014 – see also 1.4.	volunteers for volunteers for stream cleanups and continue public education projects. Utilize Boy Scouts to organize stenciling, public notices dissemination and other stormwater measures.
1.3	Create Stormwater Hotline	Peter O'Cain	Done	The stormwater hotline was maintained and all calls were addressed by the Stormwater Manager (Town Engineer).	Maintain stormwater hotline and track calls and follow-up actions, as needed.
Revised			Maintain hotline, # calls & record of follow-up actions		
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
1.4	Educate students	Teachers, Nancy Fyler of Neponset River Watershed Association.	Unknown	The Town has continued working with Ms. Nancy Fyler as a stormwater educator in the Sharon School system. Ms. Fyler. Has taught students water conservation, water infrastructure and has organized a program that included the posting of signs all over town regarding water conservation. Recreation Department organized a trash cleanup day on May 4 th 2014 that included cleaning Memorial Beach, Gavins Pond and walking trails next to Hammershop Pond.	Continue education component with Ms. Fyler. Use our new water/ stormwater educator as a means of gathering volunteers for stream cleanups and continue public education projects. Currently working in April of 2015 with Eagle Scouts and Boy Scout group to attempt to arrange clean up tributaries as a project for them.
Revised	Stormwater Awareness Education for Students		Lesson plan developed, # students taught		
1.5	Create tributary signage	Peter O'Cain	Signs made.	16 tributary signs have been installed at all tributaries in Sharon.	No further signage needed at this time. Any signs damaged or removed for any reason will be replaced as needed.
Revised			Signs posted at all named tributaries		

1a. Addition.

1.6	Develop stormwater web site	Peter O'Cain: Town Engineer	Continue to post stormwater information on DPW Water Dept. page of townofsharon.net website.	Stormwater page (in water department and DPW area of website) has been maintained and updated periodically with new topics and additional stormwater education resources.	Maintain the stormwater page and update periodically with new topics and additional stormwater education resources.
Revised	Develop & Maintain Stormwater Web Site		Update annually & record # of hits (if feasible)		

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
2.6	Encourage public participation through adverts and brochures	Peter O'Cain Dave Masciarelli	Make 6000 brochures and send out in water bills	A copy of the brochure was maintained on the website (refer to BMP s 1.1 & 1.6) and notices were included on the Town's cable TV station throughout the year. 6000 stormwater mailings were distributed to all homeowners and water conservation flyers distributed in all water bills. Town also has provided rain barrels, drought resistant grass seed and toilet and washing machine rebate program for many years and will continue through 2015 and 2016.	See 1.6 Maintain brochure and notices on cable to encourage public participation. Work with our water educator will continue in 2013 and 2014. Will continue rain barrel sales, drought resistant grass seed sales. Will continue rebate program for low flow toilets and washing machines.
Revised					
2.7	Stencil storm drains	Volunteers/ Highway Dept.	Stencil of town's catch basins that feed impaired waterways # drains stenciled	Eagle Scout candidate continued stenciling project. 1130 basins were stenciled in 2012.	Continue to stencil storm drains in high priority drainage areas, as possible. Encourage additional Eagle Scout stenciling in the summer of 2014.
Revised					
2.8	Organize Community clean-ups of tributaries.	Nancy Fyler Amanda Levasseur	At least one clean-up per year.	Our education organizer has started a "We love Lake Massapoag" campaign. The lake is a major distribution point for much of the fresh water in Sharon, including Canoe River and Massapoag Brook. The Recreation Department with Neponset River Watershed has a scheduled clean-up for early May 2014.	Seek help from Boy Scouts, the Recreation department and other groups in Town, such as students at local schools. Continue water conservation programs to minimize watering, fertilization and use appropriate car washing techniques to minimize polluted and excessive runoff.
Revised			Amount of debris removed		
2.9	Residents assist with by-law enforcement.	Volunteers Peter O'Cain	Residents report violations. # calls & record of follow-up actions	No calls were placed in 2014.	Log and track enforcement/ follow-up actions.
Revised					
2.10	Initiate "adopt a drain" programs/stream monitoring	Volunteers	Record number of drains adopted.	The Town has completed dry weather outfall monitoring program has not identified dry weather outfall flows first	Multiple streams will be monitored for flow and water quality. We will continue to support existing stream/

Revised				identified as being possible risks. Follow-up inspections during dry weather did not reveal outfall flows at sites initially identified.	lake monitoring programs and track progress, as well as provide support as staff time and budget allows. Use data collected for illicit discharge identification to perform further water quality tests and identify sources of illicit discharge, if present.
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2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
3.11	Storm water management and illicit discharge by-law.	Peter O’Cain	Town adopts by-law prohibiting non-sw discharges.	An illicit discharge prohibition by-law was previously approved at the October 2004 Town Meeting. Applications were reviewed and approved in accordance with the by-law. No new connections or enforcement actions occurred in 2013 or 2014 to date.	Continue to enforce the by-law and record corrective actions. Continue to review applications for new connections.
Revised					
3.12	Develop storm drain map with outfalls.	April Forsman Peter O’Cain	Map of MS4 outfalls.	The drainage system map was updated in past years and entered into a GIS database. All outfalls, catch basins and manholes have been mapped using a GPS and are on the town GIS system.	Continue to update the drainage system map based on new information and the results of BMPs 3.14 and 3.15. Any illicit discharge locations will be added to the map database. Water quality tests will be performed on outfalls that flow in dry weather, as identified.
Revised					
3.13	Develop plan to detect and address non s/w discharge.	DPW/Eng Dept	Plan developed	The Town of Sharon received two grants to create a program to address illicit discharge through Neponset River Watershed Association and the Southeast Regional Group. These grants will provide us with financial resources to address illicit discharge issues.	Once our illicit discharge plan is generated through the grant funds we will have a plan of action. Issuance of the next NPDES permit will also clarify our goals.
Revised	Develop a Work Plan for Illicit Discharge Detection & Elimination		Record of field inspections		

3.14	Identify and document illicit outfalls.	volunteers DPW/ENG	Keep record of suspected sites.	No new information regarding dry weather outfall flows were observed for the summer of 2014.	If outfall dry weather flows are found, the Town will attempt to identify the source of flows. See also 3.13 and the creation of a new illicit discharge identification plan.
Revised					
3.15	Monitor accomplishment of goals of reducing illicit discharge.	Peter O'Cain	Create spreadsheet with goals and percentage completed.	Dry weather discharges have been identified and reinspected and found not to flow upon subsequent inspection.	Continue to identify non-stormwater discharges and determine whether they pose a risk to surface waters. Permit connections as appropriate and document enforcement actions for illicit discharges. Identify dry flow discharges and determine source of water and the water quality.
Revised					
Revised					

3a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
3.16	Address non-storm discharges or flows, such as landscape irrigation, car washing and street wash water.	Peter O'Cain	Posted ways to reduce the impact of these activities on Town website, water bills and annual report mailings in 2013 and 2014.	Methods to address impacts from non-stormwater discharges were continued to be posted on the Town website (see water Department page).	Continue program and incorporate illicit discharge information into existing public education avenues. Stormwater educator will discuss these issues with students in 2014 and 2015.
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13

4.16	Include E&S BMP's/req's in all applicable town regulations.	Planning, zoning, Con-com, Peter O'Cain	Regs modified and accepted by all applicable boards.	Section 3.3.2.21 of the Land Subdivision Rules and Regs of the Planning Board requires E&S plan. Also lot drainage section 4.5.3 refers to NPDES standards. The previously adopted Construction Activity By-Law addresses the Phase II requirements for any disturbance over 1 acre. Enforcement was continued in 2013 and 2014.	Continue to enforce regulations and improve, if needed. Planning Board Regulations have just been updated and approved by a paid consultant and LID measures and references to new BMP's were added. The regulations were approved in February of 2014 and are now in use.
Revised					
4.17	Include construction E&S plan as part of review.	Planning, Zoning, BOH.	Approval of modified regulations.	Planning Board requires E&S plan and includes in review. Zoning by-law section 3340. The previously adopted Construction Activity By-Law addresses the Phase II requirements for any disturbance over 1 acre. Article 38 of the General By-Laws requires a complete stormwater erosion control plan and an operation and maintenance plan. All permits must go through a public hearing process.	Continue to enforce requirements and new Planning Board LID and stormwater requirements.
Revised					
4.18	Inspect site for E&S problems	Greg Meister Conservation Agent and/or Town Engineer	Record Inspections and enforcement issues	Conservation Agent and Town Engineer inspected all developments and construction projects over 1 acre for erosion and sedimentation control. Town Engineer also checks these items on a daily basis. .	Continue to enforce requirements and document follow-up actions. Will create inspection worksheet that will be used as an inspection record.
Revised					
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
4.19	Create sanctions to ensure compliance with E&S req's	Con-Com, Board of Selectmen, Town Engineer	List of sanctions approved by Town.	The current comprehensive by-law (articles 37 and 38) includes sanctions and fines.	Enforce sanctions as required.
Revised					
4.20	Include construction site runoff on stormwater hotline	Residents/ Volunteers	Established hotline with phone records.	Continued to advertise the hotline using existing public education avenues.	Continue to monitor hotline and advertise through existing education avenues – website primarily.

Revised					
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4a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
4.21	Create procedure to receive and consider information submitted by the public and include requirements for the construction site operators to control waste such as discarded building materials.	Peter O’Cain	The Town passed the construction activity by-law that requires a public hearing be held for stormwater plans submitted on lots that will have more than an acre of disturbed area. The by-law requires a SWWP that addresses construction wastes of all kinds.	Stormwater Discharges Generated by Construction Activity By-Law approved in October 2004. Approved by Attorney General in January of 2005. Public hearings were held for permit application during the permit term when needed.	Continue to enforce Stormwater Discharges Generated by Construction Activity By-Law.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
5.21	Planning Board/Con-Com regs, BMP for runoff control +1 acre	Planning Board, Con-Com: Greg Meister	Passed new Construction Activity General By-Law to address sites that are disturbed over 1 acre.	Construction Activity General By-Law passed and approved at October 2004 Town Meeting. By-Law requires a public hearing and requirements for post-construction stormwater management inspection and maintenance.	Enforce By-Law when required.
Revised					
5.22	Require operation and maintenance plans for ret/det basins	Peter O’Cain Greg Meister	Include plan requirement in Planning regs and maint fee.	O&M Plans for BMPs are required for all lots with over an acre of disturbance as part of the Construction Activity By-Law.	Operation and maintenance plans have been required on all new projects with stormwater infrastructure, if an SWPPP is

Revised					required – developments over 1 acre. The Town of Sharon requires detention basins to be placed on Town-owned lots to ensure maintenance. In private developments the O & M plan must require that money be placed in escrow account by homeowner's association to ensure maintenance is done.
5.23	In addition to BMP's develop community BMP's	Peter O'Cain Greg Meister	Make a list of community BMP's, if any.	The newly approved Planning Board Rules and Regulations encourage LID solutions in section 4.5 on page 50.	The new Planning Board regulations will be enforced and LID BMP's will be encouraged and BMP's and requirements from the MassDEP Stormwater handbook will continue to be enforced.
Revised	BMP Manual				
5.24	If community BMP's desired, add to appropriate regulations	Planning, Zoning, Con- Com Boards/ Town Engineer	Additions to appropriate regulations.	The BMP's required by the new Planning regulations track the MassDEP Stormwater Handbook requirements and encourage LID solutions to runoff issues.	We will enforce the new Planning Board regulations that track with Mass DEP's Stormwater handbook and encourage LID solutions.
Revised					

5a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
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5.25	Zoning that encourages low impact development.	Peter O'Cain	Zoning that encourages low impact development	The Town of Sharon approved 40R and 43D districts in 2009. The Sharon Commons area off South Main Street and the Post office Square area in downtown Sharon. A memorandum of understanding has been approved for the 40R districts and construction should begin in the next two years. Redevelopment of the former Charles Wilber High School has resulted in the creation of 75 apartments near the town center and near the train station. This development re-used an old school building and allows for walking access to the train station. The project minimizes sprawl, utilizes a historic abandoned building and created almost no site runoff. The new Planning Board Regulations encourage use of LID measures to the extent possible.	Work on writing new low impact development regulations, as needed.
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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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
6.25	Develop municipal operation and maintenance plan.	Superintendent of public Works: Eric Hooper	Completed plan.	Tibbetts Engineering has written a municipal O&M plan but the new grants will rewrite this plan.	The recently approved grants through NEWPRA and SERG group will fund writing a new Operation and Maintenance plan for the DPW.
Revised					
6.26	Implement operation and maintenance plan w/schedule.	Highway Dept/Bill Petipas	Maintain records of maintenance compliance.	Catch basin records of maintenance now being kept.	Continue to keep records of catch basin cleaning and begin implementing Operation and maintenance Plan in 2014-2015.
Revised					
6.27	Use E&S controls for road repairs.	Highway Dept: Bruce Giggey Con-Com: Greg Meister	Record work and erosion controls taken	All roadway work is assessed by the Conservation Agent and Town Engineer for erosion issues. Work is silt fenced and hay baled as needed.	Continue to use erosion and sedimentation controls as needed and file for construction general permits for work over 1 acre.

Revised				Any work over 1 acre has a NPDES construction permit filed. All town projects were reviewed for E&S requirements and BMP's were implemented as approved.	
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
6.28	Fill Drains in areas of equipment cleaning or work	Highway Dept: Bruce Giggey	Drains covered or filled in.	All drains were previously covered or filled in.	None
Revised					
6.29	Clean catch basins on regular schedule	Highway Dept: Bruce Giggey	Maintain record of cleaning	Half of the catch basins in town were cleaned this year and records were kept by the DPW. Additional funding was not available to clean more structures; however, the Town evaluated the potential to use GIS data and catch basin cleaning data to prioritize cleaning efforts.	Awaiting new DEP permit requirements on catch basin cleaning. Will continue current schedule until new Phase II permit is issued.
Revised					

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
6.30	Construct Vehicle wash building with recycling wash system to eliminate pollutants from entering groundwater.	Peter O'Cain Town Engineer	Construct building and utilize for vehicle washing	The new vehicle wash building was maintained to ensure proper use for vehicle washing activities.	Utilize and maintain wash building, as needed
6.31	Added employee training to operation and maintenance plan requirements	Peter O'Cain	Operation and maintenance plan includes employee training component.	Plan implemented.	New employees will be educated as needed. New plan will be generated in 2015.
Revised			Training attendance sheet		

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
7.30	Utilize list of impaired bodies as a basis for areas to study	Town Engineer: Peter O’Cain	Determine how to reduce causes of impairment.	The grant programs we are currently working with NEWPRA and the SERG group on will determine our plan of action for addressing impairments. Sharon is primarily addressing high bacterial levels and not chemical impairments.	Use dry flow outfalls to identify locations of illicit discharges and test the water quality of those discharges. Educate public through website on septic system maintenance, especially regular pumping.
Revised					
7.31	Set up plan utilizing outfall mapping to reduce impairment	Town Engineer: Peter O’Cain	Written plan	Outfall locations have been mapped on GIS.	See 7.30
Revised					
7.32	Ensure WLA met by stormwater BMP’s	Superintendent of Public Works: Eric Hooper	Determine if additional BMP’s needed.	No dry weather outfalls identified on subsequent inspections.	New illicit discharge plan will be generated with grant funds through Neponset River Watershed and Southeast Regional Group.
Revised					
7.33	Reduce pollutant discharges coming through MS4	Conservation Agent: Greg Meister/Town Engineer	Inspect water for reduction in turbidity, increase in DO	Used catch basin cleaning and roadway sweeping program to reduce turbidity and reduce pollutants.	Use catch basin cleaning and roadway sweeping program to reduce turbidity and reduce pollutants. Implement the recommendations from BMP 7.32 and use water sampling to compare water quality from year to year as budget allows. Use dry flow outfalls to identify areas of illicit discharge and perform water quality testing in those areas.
Revised					

7a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
7.31A	Set up plan using outfall mapping to reduce impairment	Peter O'Cain	Adjust mapping as direct connection data is collected from applications submitted related to the Illicit Discharge By-Law and through catch basing cleaning process.	Outfall and direct connection information was updated on the Town drainage map when found.	Continue to update mapping as appropriate.

7b. WLA Assessment

The Town is working on reducing loads to streams through strict enforcement of our Illicit Discharge and Construction Activity By-laws. The Construction Activity By-Law in combination with strict enforcement of soil and erosion control plans will help reduce the TSS entering the town waterways. Planning Board Regulations and the two new by-laws require strict compliance with all Mass DEP stormwater regulations and water quality regulations.

The Town of Sharon has received **Community Innovation Grant** money through NEWPRA and the Southeast Regional Group (our regional purchasing association). These funds will be used to create O&M plans, Illicit Discharge identification and testing plans, and to write a bid for testing and collection services to name a few things the grant money will be used for. We were recently awarded a second round of grants with about a dozen other communities and we will work to produce documents for regional plans to address these issues. More information will be provided when the program comes together.

The Planning Board had hired PSC of Foxboro to rewrite the Planning Board Rules and Regulations to reflect references to new General By-Laws regarding construction activity and illicit discharge. The new regulations are complete and being utilized, as of February 2014. The new regulations are very detailed with respect to drainage design and encouragement of LID measures.

Neponset River Watershed Association is hired yearly to provide public education and outreach services for the Town of Sharon. They are also worked with the Town on education at the DPW and provided the Town with tributary signage designs and ordering. Their latest efforts, in coordination with the Town of Sharon, included obtaining the Community Innovation Grant funds and organizing a clean-up with volunteers.

Part IV. Summary of Information Collected and Analyzed

The Town has completed its stormwater drainage system mapping of outfalls. Dry weather observation of all outfalls will be performed and water testing will proceed again in the summer of 2013, if dry weather outfall flows found.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Y
Annual program budget/expenditures	(\$)	Town Engineer salary includes these tasks. Conservation Agent also performs many stormwater enforcement tasks.

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	All water bills, website, cable, school education, inserts in Annual Town Report. Approximately 8000 total.
Stormwater management committee established	(y/n)	No committee established but ZBA and Planning Board, Conservation Commission and DPW all work together to address stormwater issues during approvals, during and after construction.
Stream teams established or supported	(# or y/n)	No but a stream cleanup was organized in 2014 and will again be in 2015.

Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.) Yes, May 2014	Lake Massapoag Education program started.
Household Hazardous Waste Collection Days		Y
▪ days sponsored	(#)	1
▪ community participation	(%)	7.5%
▪ material collected	(tons or gal)	Approx 500 gallons of chemicals and we accept TV's, computers, printers, batteries, tires
School curricula implemented	(y/n)	Yes

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	some			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 (see attached spreadsheet)	(#)	237
System-Wide mapping complete	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100%
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	No consistent dry weather flows found.
Illicit connections removed	(#) (est. gpd)	None-preexisting sump pumps or foundation drains.
% of population on sewer	(%)	Less than 1%
% of population on septic systems	(%)	99%+

Construction

Number of construction starts (>1-acre)	(#)	None
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100

Site inspections completed	(# or %)	Not recorded in 2014. Will record in 2015.
Tickets/Stop work orders issued	(# or %)	0 related to wetlands
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 %)	Not recorded in 2014
Estimated volume of stormwater recharged	(gpy)	?

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	½ of town per year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	½ of town per year
Total number of structures cleaned	(#)	1500
Storm drain cleaned	(LF or mi.)	1200
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.)	truck to asphalt plant	
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2.0/year
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2.0/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Asphalt plant
Cost of sweepings disposal	(\$)	\$3/ton
Vacuum street sweepers purchased/leased	(#)	Purchased and contracted
Vacuum street sweepers specified in contracts	(y/n)	no

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	100%
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0

Anti-/De-Icing products and ratios	% NaCl	50
	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	50

Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	0
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	Completed