

Municipality/Organization: Town of Southborough

EPA NPDES Permit Number: MAR041160

MassDEP Transmittal Number: W-040764

Annual Report Number
& Reporting Period: Year 15: April 1, 2017 – March 31, 2018

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2018)

Part I. General Information

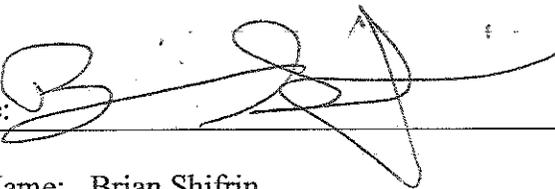
Contact Person: Karen Galligan Title: DPW Superintendent

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01772

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: Brian Shifrin

Title: Board of Selectmen

Date: 5/1/2018

Part II. Self-Assessment

N/A

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
1.1	Storm Water Flyer to Community Residents, Watershed survey	SuAsCo Watershed Community Council, Storm Water Committee	Flyer distributed to 75% residences, survey distributed, results received, and compiled. Results published	Tasks completed during Year 2. The Town continues to provide public outreach programs.	Task Completed.
Revised					
1.2	Storm Water Lesson Plan for Fifth Grade Students	SuAsCo Watershed Community Council, Storm Water Committee	Lesson plan developed, distributed, taught in at least one (1) Grade 5 class.	SuAsCo distributed lesson plan to schools.	Task Completed.
Revised					
1.3	Storm Water Flyer to Community Business “Green Neighbor” Logo	SuAsCo Watershed Community Council, Storm Water Committee	Flyer developed, distributed to at least 50% local businesses. Logo displayed by at least 50% of businesses receiving flyer.	Flyers were previously provided and displayed at events in previous years. The Town will continue to partner with SuAsCo Watershed Council to distribute materials.	If SuAsCo provides additional business targeted mailings, the Town will distribute them. Other non-business specific mailings will be sent out in future water and tax bills to all property owners.
Revised					
1.4	Storm Water Media Campaign	SuAsCo Watershed Community Council, Storm Water Committee	Media package developed, distributed to local media. Four (4) press releases developed and distributed.	Stormwater/Rain Bain Barrel/Compost reminders sent out in April, 2010 water and tax bills. Continued to display bookmarks at the Library; displayed presentation and self-test on the Town’s website; displayed “Stormwater Matters” banner at Transfer Station; displayed stormwater poster at various public events.	Continue to display bookmarks, presentation, self-test, banner, and posters.
Revised					

1.5	Storm Water Video	SuAsCo Watershed Community Council, Storm Water Committee	Storm water video developed, shown at least one public meeting/hearing, provided to local cable station.	Completed in Year 1 when the Town advertised that the Weather Channel would be showing "After the Storm."	Task completed.
Revised					
1.6	Consider posting signs at publicly accessible storm water outfalls	DPW	Map outfalls, signs developed, signs installed. Consider using volunteers where possible.	No additional outfalls were signed from what was completed in Year 2. However, various wetland layers were added to all sections of the Town's online, publicly accessible GIS website. This allows for increased understanding of locations of wetlands. Layers continued to be provided on the public GIS.	Continue to provide the wetland layers on the GIS website.
Revised					
1.7	Develop Storm Water Awareness Package	Storm Water Committee, Selectmen's Office	Materials to be included in package compiled, information distributed (transfer station stickers), number of packages distributed.	A storm water display was set up at Family Fun Day on 6/11/06. Flyers were also distributed at this event. Continued to distribute "new comers" flyer, which includes information about the water and transfer station usage.	Continue to support distribution of the New Comer Flyer to new residents.
Revised					
1.8	Meet with local school officials annually to identify past activities and upcoming curriculum	Storm Water Committee, School Department	School Department official contacted, meeting conducted, Each school has designated contact.	The School Department continues to use the curriculum provided by the SuAsCo. The DPW provided laminated maps, field-maps and stencil kits to the Mary E. Finn School Council in May, 2008, to support the storm water curriculum developed by them.	The Town plans to continue to work with school groups as the opportunity may arise to expand the storm water curriculum.
Revised					
1.9	Develop Storm Drain Stenciling Program	DPW, Storm Water Committee	Program developed, volunteers organized, basins stenciled.	Stenciling was held in May, 2008 at the Mary E. Finn School as part of the new storm water curriculum. Sudbury River Watershed Organization (SRWO) performed stenciling demonstration at Riverfest 2008 and 2009. Additionally, the Conservation Commission applied to the Knox Trail Council of the Boy Scouts of America in response to the Council's request for environmental related projects for 2010. However, application was not accepted.	Continue the Stenciling Program, as opportunities arise. SRWO is no longer active, and cannot be partnered with.
Revised					

1.10	Make the Storm Water Management Plan available to the general public.	Storm Water Committee	Make the plan available at the Town Hall, Library, and in schools as an environmental resource. Consider putting the plan on the website.	Task Completed Year 1. The Storm Water Management Plan and Years 8, 9, 10, 11, 12, 13, and 14 Annual Report were also posted on the Town's website.	Task Completed. Post the Year 15 Annual Report on the Town's website.
Revised					
1.11	Consider developing a Storm Water Management web page	DPW, Storm Water Committee	Consider developing a web page identifying the Town's req's and activities. Consider links to other websites such as SuAsCo, MA DEP, and USEPA. Web page developed.	The Town continues to post storm water education information on the Town's webpage. A section on the DPW web page has been created that is dedicated to Stormwater Management information.	Task completed Year 1. Continue to maintain and upgrade web site as needed.
Revised					

1a. Additions

1.12	Provide rain barrels at a reduced cost to interested residents	DPW, Storm Water Committee, MA DEP	Number of barrels sold	A number of barrels and composters were sold at discounted rates in conjunction with the 2010 Earth Day Clean-up.	Task completed.
Revised					
1.13	Support Green Schools and Trottier Middle School's Environmental Fair	DPW, Recycling Committee	Participate at the Fair	Green Technology and Recycling Committee participated at the School Fair and represented the DPW in 2014 and 2015.	If the Fair is held again, provide support and participate again.
Revised					
1.14	Provide bill insert with information about DPW operations.	DPW	Provide inserts to be included with spring quarter tax bills.	A bill insert with information on stormwater, street trees, rain barrels and composters, and the Spring Clean-Up was provided in the April, 2010 quarterly tax bill.	Task Completed.
Revised					
1.15	Display "Think Green" PowerPoint presentation on Southborough Community Cable TV	DPW	The presentation is displayed on the Southborough Community Cable TV station at least once.	The community cable TV station has been provided the presentation, which was developed by the SuAsCo council. The station has indicated that they will display it on their channel. The presentation is focused on techniques homeowners can use to keep	The Southborough Community Cable TV will display the presentation as their schedule allows.

Revised				stormwater clean, and includes a self-test.	
1.16	Inform property owners of changes to FEMA FIRMs	DPW	All property owners within a flood zone, as determined by the new January 4, 2011 FEMA FIRM, will be notified by letter of the changes to the flood zone.	A letter dated March 24, 2011 was sent to all owners of property identified as being within a flood zone. New FEMA FIRMs are displayed on Town's website.	Task completed. Continue to answer property owner's questions regarding flood zones.
Revised			All property owners within a flood zone, as determined by the new January, 2013 FEMA FIRM, will be notified by letter of the changes to the flood zone.	Property owners within the flood zone were mailed a letter notifying them of changes to the FIRM maps and a drop in informational session scheduled for April 9, 2014. A drop in informational session was held for residents. New maps were Accepted at Town Meeting.	

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
2.1	Local Storm Water Committee to assist in developing and implementing plan	Town Administrator, DPW, Cons. Comm., SW Committee	Committee established, meetings conducted, plan developed, activities conducted	The Committee did not meet in Year 15. The assembly of a committee is currently being evaluated.	Members of the Committee will review the Year 15 Annual Report prior to submission to the Board of Selectmen, and will attempt to be at the meeting. Evaluate composition of committee.
Revised					
2.2	Storm Water Plan Annual Meeting	Storm Water Committee	Annual meetings planned, noticed, conducted, minutes prepared. # of attendees. Comments received, considered (Plan Development, SWMPP and Annual Report)	Meeting was not held with Board of Selectmen to present and discuss the Year 15 Annual Report but it was reviewed and signed by the Board of Selectmen.	Have the Board of Selectmen Chairman sign the Year 15 Annual Report.
Revised					
2.3	Storm Water Traveling Display	SuAsCo Council, Storm Water Committee	Display developed, display in 3 locations in 1 st permit year. Opportunities ID'd for future displays.	Displayed poster at Spring 2010 Annual Town Meeting, at Spring Clean-Up on May 1, and at Environmental Fair at Trottier School on May 22.	Display poster at events as opportunities arise.
Revised					

2.4	Storm Water Photo Contest for High School Students	SuAsCo Council, Storm Water Committee	Contest announced and held, photos received, judged, winners announced, displayed (consider for future graphic)	An open space photo contest was conducted for the Southborough Open Land Foundation in previous permit years.	Task Completed.
Revised					
2.5	Storm Water Summit Special Event	SuAsCo Council, Storm Water Committee	Meet with SuAsCo Council to determine community specific or multi-community event. Event noticed, conducted, minutes recorded. Number of participants.	SuAsCo has been identified as the responsible party for the procedures for this task. No summit was held in Year 15.	Continue to remain in contact with SuAsCo Council in the event that this event is held.
Revised					
2.6	SuAsCo Storm Water Super Summit	SuAsCo Council	Super Summit announced, conducted, municipal participation.	SuAsCo has been identified as the responsible party for the procedures for this task. No summit was held in Year 15.	Continue to remain in contact with SuAsCo Council in the event that this event is held.
Revised					
2.7	Evaluation and Assessment of Public Awareness of Storm Water	SuAsCo Council, Storm Water Committee	Storm Water Self Test developed, distributed to a minimum of 75% of residences. Surveys received, results analyzed community specific and watershed wide, results published.	Task completed in a prior permit year.	Task Completed.
Revised					
2.8	Develop Storm Drain Stenciling Program	DPW, Storm Water Committee	Program developed, volunteers organized, basins stenciled.	See 1.9.	See 1.9.
Revised					
2.9	Coordinate with Sudbury River Watershed Organization (SWRO, formerly SWaMP), and others to consider results of water quality monitoring	DPW, Storm Water Committee	Meeting conducted, activities scheduled, conducted. Results reviewed, potential actions identified, implemented.	The Upper Sudbury River monitoring study by DCR/USGS has ended (25 Southborough volunteers had participated in that study). SWRO continued monitoring for a time, but is no longer an active group.	The SRWO is no longer an active group.

Revised					
2.10	Identify and coordinate with potential volunteers, to include “neighborhood watch” groups, Boy and Girl Scout organizations, school groups/clubs, local and regional environmental advocates.	DPW, Storm Water Committee	Groups identified. Contact established, meetings conducted. Activities scheduled, conducted. Number of volunteers participating.	The DPW continues to sponsor and support the Annual Earth Day Cleanup each April/May.	The Earth Day clean-up will continue to be held and supported.
Revised					
2.11	Continue to sponsor, support cleanup projects	DPW, Storm Water Committee	Groups identified. Contact established, meetings conducted. Activities scheduled, conducted. Number of events sponsored/supported, amount of material collected, number of volunteers participating.	The Town continues to sponsor and provide material for cleanup events. The Town also held a Household Hazard Waste (HHW) day at the DPW facilities in October.	Continue to support the Earth Day Clean-up and HHW day.
Revised					

2a. Additions

2.12	Sudbury Reservoir Earth Day Clean-up	Massachusetts Department of Conservation & Recreation (DCR)	Number of volunteers participating, amount of material collected	35 volunteers picked up 45 bags of trash, 4 tires, and a TV along the road edges and shoreline of the Sudbury Reservoir in Southborough and Marlborough on April 24, 2010.	Task Completed – DCR hosts several clean-up events, not all are associated with the Sudbury watershed.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
3.1	Complete implementation of GIS to include Storm Sewer System	DPW	Mapping completed, consider integration of asset management system.	Task completed in Year 2. Map new assets when they are installed.	Task completed in Year 2. Continue to map new assets.
Revised					
3.2	Verify outfall locations. Conduct outfall survey. Investigate suspected illicit discharges	DPW	Number of outfalls located. Survey of outfalls completed. Investigations identified, prioritized, conducted. Source identified and scheduled for removal. Enforcement actions taken or referred to other entity such as police, Board of Health, MA DEP, or USEPA.	Task completed in Year 2. The Town completed the dry weather survey in Year 5. Further investigations occurred in October, 2009. 2 outfalls were ruled as having illicit discharges, as they were running 4 days after last precipitation event. Other outfalls were running, and samples were taken again. Samples were inconclusive.	Further dry weather sampling will be done this upcoming year to further investigate outfalls at Constitution Drive, Cherry Street, and Ted Lane, to determine if flows are ground water or not.
Revised					
3.3	Adopt by-law to effectively prohibit illicit discharges.	DPW, Storm Water Committee	Review of model ordinance to ensure compliance with existing laws and regulations. Draft language and legal review. Conduct informational meetings as necessary. Submit to warrant, schedule for vote at Town Meeting. Article voted, accepted.	Regulations drafted, presented and adopted at Town Meeting in April, 2006.	Task completed.
Revised					

3.4	Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.	DPW, Storm Water Committee, SuAsCo	Ensure that educational materials developed include illicit discharge awareness. Materials developed and distributed.	Many of the above mentioned activities inform the public about these hazards.	Continue efforts to inform the public in future years.
Revised					

3a. Additions

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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
4.1	Adopt by-law to require erosion and sediment controls.	Town Planner, DPW, Conservation Commission, and Storm Water Committee	Review of model ordinance to ensure compliance with existing laws and regulations. Draft language and legal review. Conduct informational meetings as necessary. Submit to warrant, schedule for vote at Town Meeting. Article voted, accepted.	Regulations drafted, presented and adopted at Town Meeting in April, 2006. The by-law is managed by the Conservation Commission and the ordinance has been implemented. The Conservation Commission issues Storm Water permits for sites that meet various criteria, including all sites disturbing 50% of a lot or greater than one acre. The Town Engineer reviews all Storm Water permits and provides recommendations to the Conservation Commission. Discussions were had about streamlining permit process, and moving stormwater permit to DPW jurisdiction. Decision was made to leave permit with Conservation Commission, but to remove it from zoning code, and add it to the Wetlands Bylaw. This year, the Zoning Bylaw continued to be studied.	Task Completed. As part of the updating of the Town’s Zoning By-Laws, move the Stormwater Permit process out of Zoning Bylaw and into Wetlands Bylaw process.
Revised					

4.2	Ensure that construction site operators disturbing 50% of a lot or one acre or more implement erosion and sediment controls.	Building Officials, Town Planner, DPW, Storm Water Committee, Conservation Commission	Inspection schedule established. Inspections conducted. Deficiencies noted and corrected.	Now conducted as normal site plan review. The Conservation Commission is the assigned party. Online inspection form was created in April, 2011.	Task Completed. Continue use of the online inspection tracking form.
Revised					
4.3	Ensure construction site operators disturbing 50% of a lot or one acre or more control construction wastes, and other wastes that may cause adverse impacts to water quality during construction.	Building Officials, Town Planner, DPW, Storm Water Committee	Ensure proposed by-law includes language to control construction wastes. Inspections conducted. Deficiencies noted and corrected.	Now conducted as part of normal site plan review. The Conservation Commission is the responsible party for the Storm Water by-law.	Task Completed.
Revised					
4.4	Develop procedures for site plan review which incorporate consideration of potential water quality impacts.	Building Officials, Conservation Commission, Storm Water Committee	Ensure proposed by-law, regulations, or guidance includes language for site plan review process. Consider providing guidance documents or other outreach materials for developers.	The Conservation Commission reviews all projects that trigger Major Site Plan review, that disturb areas of slopes greater than 15% in excess of 15,000 sf., and that disturb 50% of a lot or greater than 1 acre, whichever is less. All storm water permit applications are reviewed hired consultants.	Task Completed.
Revised					
4.5	Develop procedures for site inspection and enforcement of control measures.	Building Officials, Town Planner, DPW, Storm Water Committee	Inspection schedule established. Inspections conducted. Deficiencies noted and corrected.	Each individual department is responsible for inspections for their respective permits. The Conservation Commission hired a wetlands scientist to conduct inspections of approved permits.	See 4.2. The inspections are conducted by the wetlands scientist.
Revised					

4.6	Develop procedures for receipt and consideration of information submitted by the public.	Building Officials, Town Planner, DPW, Storm Water Committee	Develop a form for the public to provide information. Designate municipal official responsible for receiving information, identifying responsible official to investigate, and ensure appropriate response (deficiencies noted and corrected). Consider making form available on the Town's website.	The public is allowed to comment on all projects subject to hearings by Planning Board, ZBA, and Conservation Commission. The DPW has created an online work order tracking system which allows for handling of complaints. Between March '17 to March '18, 11 Storm Water Management permits were applied for and seven were approved. Zero enforcement actions were undertaken by the Conservation Commission under the Wetland Protections Act.	Task Completed.
Revised					

4a. Additions

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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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
5.1	Identify structural and non-structural best management practices (BMPs) appropriate for the community	Town Planner, DPW, Storm Water Committee	Incorporate by reference state specific standards (i.e. acceptable practices under Wetlands Protection Act). Identify standard practices which are not acceptable in the community. Consider developing guidance documents or other outreach materials for developers outlining BMP selection as well as general guidance on proper operation and maintenance.	LID by-law and Stormwater by-law were adopted in April, 2006. Permitting process discussed as part of Zoning By-Law review. It is anticipated that Stormwater will be removed from Zoning Code and incorporated into Local Wetland Bylaw, and the LID bylaw will be incorporated fully into zoning/planning bylaw and regulations.	Task completed. Continue process of preparing Zoning By-law update, under the direction of the Town Planner.
Revised					

5.2	Adopt by-law to require post-construction runoff controls.	Town Planner, DPW, Conservation Commission, and Storm Water Committee	Review of model ordinance to ensure compliance with existing laws and regulations. Draft language and legal review. Conduct informational meetings as necessary. Submit to warrant, schedule for vote at Town Meeting. Article voted, accepted.	Regulations drafted, presented and adopted at April, 2006 Town Meeting. The Conservation Commission has implemented a Storm Water Permit for sites disturbing 50% of a lot or over an acre, whichever is less, requiring Major Site Plan Approval, and/or disturbing areas of greater than 15,000 sf with slopes of 15% or greater. Also, see 5.1 for info about coordination of permitting process.	Task completed. Ease of permitting process being examined as part of Town's Zoning By-Law review which will continue, see 5.1.
Revised					
5.3	Ensure all new development and redevelopment projects that disturb one acre or more require long term operation and maintenance of post-construction runoff controls	Town Planner, DPW, Conservation Commission, Board of Health, and Storm Water Committee	Ensure proposed by-law or regulations, language and enforceable mechanism for long term operation and maintenance of post-construction runoff controls.	Both the LID and Stormwater Management Permits require long term Operations and Maintenance plans to be submitted, reviewed by outside consultants, and to be approved by either the Conservation Commission or the Planning Board.	Task completed as part of Stormwater and LID permits implementation.
Revised					
5.4	Ensure adequate long term operation and maintenance of BMPs	Building Officials, Town Planner, Conservation Commission, DPW, Storm Water Committee	Ensure the by-law developed in Task 5.2 includes language providing DPW authority to ensure proper operation and maintenance of all BMPs tributary to the storm sewer system. Identify structures tributary to the storm sewer system and determine the need for inspection.	This responsibility has been transferred to the Conservation Commission and the Town Planner. They are responsible for implementing the new ordinances for LID and Stormwater Management, which contains specific operation and maintenance requirements. The Conservation Commission has hired a wetland scientist to assist in the examination of BMPs. Private systems at Town Center Shopping Center and Carriage Hill Condominium were maintained based upon contact from the DPW.	Efforts to ensure long term operation will be continued.
Revised					

5a. Additions

5.5	Adopt revised Wetland and Flood plain Zoning Overlay District	Planning Board, Conservation Commission	Adopt the revised zoning district at the Spring 2011 Annual Town Meeting to be held in April, 2011.	Revised language for the overlay district was prepared in consultation with the MA Department of Conservation and Recreation. The district is being revised to account for changes to the FEMA FIRMs, which went into effect on January 4, 2011. A public hearing was held by the Planning Board on March 21, 2011, and was continued to April 4, 2011.	The Town adopted the revised Wetland and Flood plain Zoning Overlay District at the Town's 2011 Annual Town Meeting.
Revised			Adopt revised FIRM maps at Town Meeting.	Planning Board held a public hearing and approved the revised FIRMs. FIRMs are set to go into effect July 16, 2014. Town Meeting voted to adopt the new maps on April 16, 2014.	

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
6.1	Establish formal public street and parking lot sweeping program	DPW, Storm Water Committee	Continue existing program. Consider incorporating routes and schedule as a data layer in GIS. Maintain records of curb-miles swept, approximate volume of material collected. Note areas that accumulate more sediment and consider more frequent sweeping or further investigation of pollution source.	Roads in the Town are swept at least once per year, primarily in the Spring. Logs were kept of quantities generated during cleaning and sweeping. Report logs and clipboards were provided to equipment operators.	Continue to sweep roads at least once per year and maintain records.
Revised					

6.2	Consider including pollution prevention training for equipment operators	DPW, Storm Water Committee	Consider including pollution prevention training for equipment operators. Evaluate the existing level of awareness of equipment operators. Consider enhancing existing training (Health and Safety) with storm water awareness training.	Spill kit has been provided at the maintenance facility. Training was conducted in Year 1.	A refresher training session will be considered for spring of 2018.
Revised					
6.3	Establish formal storm sewer system inspection and maintenance program	DPW, Storm Water Committee	Continue existing program. Consider an asset management program for Town's GIS. Identify the system and all public structures tributary to the system. Conduct a catch basin sediment accumulation pilot program. Establish a routine inspection and maintenance program. Maintain records of inspections conducted, # of basins cleaned, volume collected. Note areas that accumulate more sediment and consider more frequent inspection, cleaning or further investigation.	All basins are cleaned at least once every two years. Basins in high sediment areas are cleaned annually. The DPW repaired 9 catch basins in 2017. An online form based DPW work order tracking system was implemented in January, 2009. 1266 catch basins were cleaned in 2017. Catch basin and BMP inspection forms have been created.	Maintain records for all catch basin cleanings and repairs. Continue to repair damaged and improperly functioning basins. Continue use of online work order forms. We continue to watch for sump pump discharges. Continue regular catch basin cleaning. Contract out catch basin cleaning. Continue to develop an inspection program.
Revised			In 2011 the Town did not vote to repair the DPW Catch Basin Truck. Catch basin cleaning will be contracted out in 2012.		
6.4	Identify, as necessary, structural modifications to the system in conjunction with future roadway improvements.	DPW	Evaluate system improvement needs in conjunction with planned roadway improvements.	Paving was conducted in 2017 and 9 catch basins were repaired as part of the work. A culvert on Northborough Road has also been designed but replacement has been delayed due to lack of funding. Grant application has been submitted in 2018 for funding of the replacement	Continue to upgrade drainage structures as necessary with roadway projects. Pursue funding for Northborough Road culvert replacement.

Revised					
6.5	Provide spill response training to mechanics and equipment operators	DPW	Develop training program. Identify staff for training. Conduct initial and annual training refresher training. Maintain training roster for each session, and include documentation in personnel files.	New employees are provided a briefing by departing staff.	A refresher training session will be included in our SWPPP when the new permit is issued.
Revised					
6.6	Post spill prevention/emergency action plans prominently in areas where hazardous materials are used and stored.	DPW	Develop posters outlining spill prevention/emergency response plans. Post prominently in the garage.	Spill cleanup materials are present at the maintenance facilities. MSDS sheets are available in the maintenance garage.	As part of refresher training, the need for additional posters will be evaluated and the response plans will be developed and posted.
Revised					
6.7	Conduct annual inspection of maintenance facilities.	DPW, School Department	Develop Checklist. Conduct inspections. Record and correct deficiencies.	DPW staff performs informal inspections regularly, which includes inspections of the waste oil and gasoline systems which are performed on a weekly basis.	Continue waste oil and fuel system inspections.
Revised					
6.8	Publicize and support Household Hazardous Waste (HHW) Collection events.	DPW, Health Department	Coordinate with Health Department to publicize and support HHW Collection events. Record the number of attendees, volunteers. Record the types and amount of material collected.	HHW event (October, 2017) supported and collected materials tracked.	Continue with supporting annual HHW collection event.
Revised					

6a. Additions

6.9	Install formalized drainage system at DPW Yard	DPW	Drainage system installed	A formal drainage system was installed as part of the paving of the rear area of the DPW yard. Structures installed include deep sump catch basins, 1,500-gallon	Work Completed.
Revised					

				oil/grit separator, sediment forebay and an infiltration basin.	
6.10	Upgrade drainage system at Transfer Station Recycling Area	DPW	Install additional drainage pipe and outlets	Preliminary design prepared, design changes required to account for final build out. Design and construction not funded.	Seek funding to complete final drainage design and install the additional pipe and outlets.
Revised					

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<not applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
Revised					
Revised					

7a. Additions

7b. WLA Assessment

N/A

Part IV. Summary of Information Collected and Analyzed

See attached.

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, 2016 through March 31, 2017)

Programmatic

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

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned YEARLY SINCE BEGINNING	(y/n or mi.)	Yes
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days ONCE PER YEAR SINCE BEGINNING		
▪ days sponsored **	(#)	1
▪ community participation	(# or %)	20%
▪ material collected	(tons or gal)	14 - 55gal drums
School curricula implemented	(y/n)	Yes
Stormwater Seminars attended by DPW Staff	(# of Seminars)[# of staff]	(1), [1]

Legal/Regulatory

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

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	188
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	75 (100% of outfalls mapped)
Mapping method(s)		
▪ Paper/Mylar	(%)	N/A
▪ CADD	(%)	N/A
▪ GIS	(%)	100
Outfalls inspected/screened **	(# or %)	0 outfalls
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100 %
Possible illicit discharges identified **	(#)	1 identified
Possible illicit discharges identified {require further investigation} (Since beginning of permit coverage)	(#)	{4} (0)
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
Septic system inspections	(#)	138 (109 Passed, 22 Conditional Pass, 6 Failures, 1 Needs further Investigation)
New septic systems installed	(#)	19 installed

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	3
Number of continuing construction (>1-acre)**	(#)	3
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0, 0
Complaints/concerns received from public **	(#)	1
Building permits opened (all construction projects requiring excavation)	(#)	11

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Estimated volume of stormwater recharged	(gpy)	Unknown
New subdivision streets with completed inspections	(y#)	2
Low-impact development (LID) Permits Issued	(#)	6
Stormwater Management Permits Issued	(#)	11
Private BMP Maintenance Issues Addressed by Private Owners	(#)	None

Operations and Maintenance

	(Preferred Units)	Response
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	.5/ year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	.5/ year
Qty of structures cleaned/repaired **	(#)	1266 cleaned 9 repaired
Qty. of storm drain cleaned/inspected **	(%, LF or mi.)	300 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(cubic yards)	Unknown
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	NA
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$0
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$32.50 per basin
• Disposal cost**	(\$)	Included
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vacuum truck **	(%)	0
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1/ year
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	1/ year
Qty. of sand/debris collected by sweeping **	(cubic yards)	438
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Recycled-DPW
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	N/A

(Preferred Units) Response

Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 sweeper owned
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0
Material collected at Transfer Station for proper disposal or recycling (Residents)		
• Newspaper	(tons)	111
• Yard Waste collected at Transfer Station	(tons)	350
• Commingled material for recycling	(tons)	135
• White Goods and Scrap Metal	(tons)	144
• Cathode ray tubes	(tons)	0 (HHWD)
• Corrugated cardboard	(tons)	111
Municipal Hazardous Waste to proper disposal		
• Part washer fluid	(# of times fluid disposed of and replaced)	Three times per year
• Waste oil (burned in permitted waste oil burner of gas powered unit heaters in garage storage bay)	(gallons in '17-'18 heating season)	300

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

	(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 % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	50% NaCl 50% Sand
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	Yes
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	Unknown
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	Unknown
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	N/A

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N/A
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	N/A
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	N/A