

NPDES Phase II Small MS4 General Permit
Annual Report – Year 11

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MA DEP Transmittal Form for Permit Application

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Municipality/Organization: Town of Westborough

EPA NPDES Permit Number: MAR041173

MA DEP Transmittal Number: X260784

Annual Report No & Report Period: No. 11- March 2013-March 2014

NPDES Phase II Small MS4 General Permit

Annual Report

Part I. General Information:

Contact Person: John M. Walden, Manager, Department of Public Works,

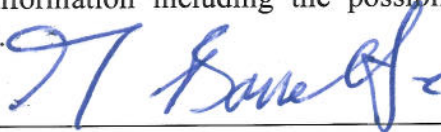
Telephone #: (508) 366-3070

Email: jwalden@town.westborough.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Signature: _____



Printed Name: George Barrette

Title: Chairman, Board of Selectmen

Date: April 23, 2014

1.0 INTRODUCTION AND BACKGROUND:

In 1990, The United States Environmental Protection Agency (EPA) began implementing a storm water management program under the National Pollutant Discharge Elimination System (NPDES). This program, known as Phase I of the NPDES storm water program, was intended to reduce pollution in storm water discharges for large urban areas with population of 100,000 or greater.

On December 1999, the Phase II Rule of the NPDES storm water program was published to address Municipal Separate Storm Sewer Systems (MS4s) within urban areas of populations less than 100,000 that were not addressed under the Phase I program. Objectives of the Phase II rule is for the MS4s to develop implement and enforce a storm water program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act.

On May 1, 2003, the EPA issued the General Permit for Storm Water Discharges from MS4s. The general permit requires that the storm water program for each MS4 submit an annual evaluation. The following report contains information regarding the activities on the storm water program for the previous calendar year. The report contains the information required in the general permit: (a) Self- Assessment Review of Compliance with the Permit Conditions; (b) Assessment of the Appropriateness of the selected BMPs; (c) Assessment of the Program towards Achieving the Measurable Goals; (d) Summary of the Results of Any Information that has been Collected and Analyzed; (e) Discussion of Activities for the Next Reporting Cycle; (f) Discussion of any Changes in Identified BMPs or Measurable Goal; and (g) Reference any Reliance on another Entity for Achieving any Measurable Goal.

The Town of Westborough filed the NPDES Phase II Storm Water Management Plan in March 2003. The Town submitted the Annual Report for year one on May 4, 2004, year two on April 25, 2005, year three on April 27, 2006, year four on April 30, 2007, year 5 on April 30, 2008, year 6 on April 30, 2009, year 7 on April 27, 2010, year 8 on April 19, 2011, year 9 on April 26, 2012, and year 10 on April 26, 2013. The original permit was intended to cover a five year period; however, it is now entering its twelfth year. A draft permit was issued on Nov. 2010 with comments closing in March 2011. The response to the draft permit was so overwhelming that the EPA felt that a second draft permit would be warranted. The second draft permit is anticipated to be released for public comments in the near future. It is not known when the final new permit will be issued.

2.0 SELF-ASSESSMENT REVIEW OF COMPLIANCE WITH THE PERMIT CONDITIONS:

Permit Year 11 – Ending March 2014

Public Education and Outreach

- Educational posters and post cards have been displayed around town.
 - a. Sewer vs. Drain display and Stormwater display with handouts were at the Town Meeting.
- Westborough TV aired a Stormwater Matters Outreach and Participation Ad Campaign consisting of seven ads, each one covering a specific stormwater theme such as lawn care, car care, picking up after pets, not littering, and keeping storm drains clean. This series of ads was run through the month of September and April.
- The Town's website has a section for Stormwater Information. There is a great video showing how a catch basin gets cleaned out. This is a fun tool to educate others on catch basin maintenance. This video is also being used in classrooms and other various educational workshops. Visit:
 - a. (http://www.town.westborough.ma.us/Public_Documents/WestboroughMA_DPW/Stormwater%20Information/)

Public Participation and Involvement

- The Town has renewed their involvement in the Rain Barrel program. This will help the local watershed by slowly releasing rainwater from the rain barrels into resident's gardens. This will decrease stormwater runoff and pollution as well as help to recharge the groundwater.
- The Town of Westborough Community Land Trust organizes a "Town Wide Earth Day Clean-Up" every year. Volunteers of all ages came together to pick up litter from around our lakes, streams and streets.
- Brownies in 3rd grade worked with the DPW and the local cable TV to create three educational videos on stormwater pollution that are being aired on all three cable TV stations year round:
 - Scoop the poop – animal waste is unhealthy to humans and gets into our drinking water supply.
 - Wash your car on the grass so that the soapy suds don't get into the catch basins.
 - Don't litter – it's bad for the environment and can pollute stormwater.
 - http://www.youtube.com/watch?v=H_3Od3-aIT8 **Published March 22, 2013**
- The Jr. Civil Engineer gave a stormwater lesson to Girl Scouts:
 - (a) On April 5, 2013, approximately 12 girl scouts in 6th grade took a tour of the DPW, the trucks and salt shed. The stormwater lesson included an EnviroScape demonstration. This topographical map helps to demonstrate erosion and stormwater pollution. The girl scouts loved it.

It really helped to clarify these concepts. These girl scouts are starting to plan out their Silver Awards. The DPW offered many ideas related to stormwater including :

1. Stormwater Stenciling
 - a. Spray paint stencils next to catch basins in town; informing residents that they are connected to a water body
 2. Build an Enviroscape for the Town to use while educating others on stormwater pollution.
 3. Contact the garden club and help with some beautification projects.
 4. Stormwater education campaign targeting:
 - a. Homeowners
 - b. Students
 - c. Businesses
 5. World water monitoring - World Water Monitoring Challenge™ is an international education and outreach program that builds public awareness and involvement in protecting water resources around the world by engaging citizens to conduct basic monitoring of their local water bodies.
- (b) On November 6, 2013 , approximately 10 girl scouts in 3rd grade came to the DPW to learn about stormwater. The stormwater lesson included an EnviroScape demonstration. We watched the Youtube video <http://www.youtube.com/watch?v=JamhlDxH77k> which demonstrates the strength of stormwater and the importance of stormwater management.
- (c) On November 22, 2013, approximately 10 girl scouts in 6th grade took a tour of the DPW, the trucks and salt shed. The stormwater lesson included an EnviroScape demonstration.

(See Appendix 1 for the revised Stormwater Lesson and Youtube PSA by the Girl Scouts)

Illicit Discharge Detection and Elimination

- The Town has worked diligently on updating the GIS with new drainage information and are much closer to completing the mapping of the entire drain system.
 - The DPW utilized 4 additional part-time personnel for updating the drainage map.
 - 1 Senior Citizen researched drain maps in the plan room and highlighted the drain pipes that were missing in GIS
 - 1 Senior Citizen renumbered the entire drain system so that each drain point is referencing the outfall which it is connected to.
 - 1 College Intern renumbered the catch basin inspection reports from the Highway Department, renumbered the GIS drain points,

field verified some drain locations, and inspected and catalogued 272 outfalls.

- 1 College Intern added drain information to GIS. Including the following:
 - Changes were made to 13 drainage sub-areas based on the Highway Catch Basin Inspection Sheets
 - Changes were made to 8 drainage sub-areas based on field inspections
 - Changes were made to 190 areas based on as-built plans; changes include: adding pipe data, adding/removing drain points and adjusting locations
 - 3168 Drain Point features were renumbered with a new numbering system which references each drain point to the outfall which it is connected to. About 105 drain points still need numbering, which means that 97% of the numbering is done.
 - 30 Streets still lack as-built information, which means that 90% of the streets are completely mapped in GIS.

Costs and Time associated with this mapping project

Personnel	Time	Cost
2 Senior Citizens	250 hours	\$2000
1 College Intern	360 hours	\$4770
1 College Intern	240 hours	\$3180
Jr. Civil Engineer	60 hours	\$1860
MIS/GIS Director	8 hours	\$300
Totals	918 hours	\$12,110

- (see Appendix 2 for a list of tasks)
- (see Appendix 3 for a revised map of all drainage components)
- From 6-18-2013 to 8-7-2013 The summer college intern inspected 272 outfalls. (See Appendix 4 for outfall inspection sheets and new numbering system). These were done in wet weather and dry weather. Any outfalls that required maintenance have been reported to the Highway Department for repair. Based on the severity of the impairment, the outfalls will get repaired.
- In January, 2012, the Highway Department started planning a town-wide survey of all catch basins. They have been implementing their plan as time allows. The properties of each catch basin in town are being evaluated, inspected and recorded on a field data sheet. This includes looking for illicit connection indicators. This also includes a rough measurement of the amount of silt in each basin. The data will then get transferred to our GIS system.

- Sewer System Evaluation Study (SSES): The DPW has completed work on its \$463,000 SSES program. The object of this study is to identify sources of Inflow and Infiltration into the wastewater system. AECOM is working to summarize the results and submit a final report in 2014. All field work has been performed; however, the scope for the project was increased to include results from camera and cleaning of the wastewater collection system which had been performed by the Town prior to engaging AECOM for the SSES.
- In addition to the consultant managed SSES study, DPW has designed, bid and constructed repairs to the wastewater collection pipe system known as the "Hopkinton Interceptor" on Flanders Road. This has led to the replacement of 1200 ft of pipe and manholes which were replaced by pipe bursting and conventional trenching in the spring of 2013. This included repairing a leak in the vicinity of 165 Flanders Road where sulfide gas has caused serious pipe deterioration and a source of infiltration was present at a river crossing. Other leaking connections were found and remedied while undertaking this project including a significant leak at the Cumberland sewer pump station.
- Our prior report indicated that I/I repairs were going to be made at the former Lyman School for Boys, now Mass Collaborative Inc. (MCI) by others. Some work was performed however it is not known if or when this will be completed. However, another portion of the state property has been deeded into private ownership and will be developed by Spectrum Health Systems Inc. Part of their development process involves abandoning several hundred feet of old unused sewer main which has potential I/I issues.
- A source of inflow was identified involving a loading dock slot drain at a privately owned warehouse off of Flanders Road. The source was discovered during building permit review for modifications to the facility. The issue will be addressed and eliminated during the renovations this spring.

Construction Site Runoff Control

- The Town's Stormwater Bylaw requires all projects that disturb one acre or more to meet the Massachusetts Stormwater Management Standards including:
 - No increase in post-development peak rate of runoff
 - No increase in post-development peak volume of runoff
 - Recharging groundwater
 - Water Quality Volume
 - TSS Removal
 - 72-hour drawdown
 - No new stormwater conveyances
- June 2009, the Town began issuing and keeping track of all Stormwater Permits for projects that disturb over 5,000 square feet of land. Plans are continuously being reviewed for site runoff control. These projects have been permitted with local Stormwater Pollution Prevention Plans. Construction inspections continue for all projects. (see **Appendix 5**)

- We found that many homeowners felt overwhelmed by the Town's Stormwater requirements. Therefore, in the fall of 2012, we developed a simple document titled "Stormwater Permit Requirements". For each small project (less than 5,000 square feet of disturbance) the DPW prepared a list of conditions that must be met by the owner. We have continued to issue this document and are revising it as necessary.

Post Construction Runoff Control

- All new development and redevelopment in town must design, construct and maintain stormwater management practices that improve upon the pre-development runoff conditions following construction. The post-construction rate and volume of discharges are not permitted to exceed the pre-development conditions. These goals are accomplished by use of infiltration and drainage system improvements.
 - The Town's Stormwater Bylaw requires that all project which disturb more than one acre comply with the DEP Stormwater Management Requirements. The DPW reviews projects with no wetlands the same as they would if there were wetlands. All projects must meet Stormwater Management Requirements. This includes:
 - Mitigating peak rate and volume of runoff
 - Writing a full SWPPP with Erosion and Sediment Control Plan
 - Providing Required Recharge volume calculations
 - Providing Water Quality volume calculations
 - TSS removal calculations
 - Sediment forebay sizing
 - Stormwater Management checklist (from DEP)
 - Show calculations for 1" roof runoff recharge
 - Estimated seasonal high ground water elevation and determine the Hydrologic soil group by a soil professional
 - 72 hour drawdown calculations
- The Town requires the submittal of as-built plans before occupancy permits are issued. This provides the Town with the ability to assure that the project has been built according to our regulations and that all permit requirements have been fulfilled appropriately.
- During the review process, a Stormwater Operations and Maintenance document must be prepared by the applicant and is reviewed by the Town. The document must include provisions for all aspects of maintaining the stormwater system with specific inspections and maintenance schedules. The Stormwater Bylaw gives the Town authority to perform corrective actions and recoup the costs from the owner/operator if necessary.
- The Town's Conservation Officer continues to alert over 200 commercial, industrial and high density residential properties of their obligation to continue maintenance of detention basins and cleaning of catch basins, along with any other general BMP maintenance. The Agent continues to personally visit each commercial property to assess their compliance with his recommendations to

maintenance. The Conservation Officer is improving on his inspection process each year and has noticed improvements in the maintenance of commercial properties since he started the program in 2005.

Good Housekeeping

- The Town's Conservation Officer works with the DPW on the Town's detention basins and all other municipally owned properties to make sure that all municipally owned detention basins are cleaned once a year. The School Department contracts annually to have all the stormwater structures professionally maintained.
- Management of pesticides, herbicides and fertilizer application is monitored each year. Herbicide is applied to control roadside vegetation.
- Highway Operations :
 - 50% of catch basins were cleaned. Equipment failures made it troublesome to achieve goal of 100%. Problematic basins cleaned after every rain storm. The Town is attempting to purchase a new Vactor Truck so that more catch basins can be cleaned more often.
 - 100% of streets are swept in the spring and fall. Downtown is swept every Friday in the summer.
 - Salt shed, vehicle maintenance bay and garage are cleaned once a year in February by Clean Harbors. These facilities have closed-system drains with oil/water separators.
- Municipal vehicles are on a regular maintenance schedule and are immediately repaired when needed.

Additional Development:

Westborough joined the Central Massachusetts Regional Stormwater Coalition (CMRSWC).

The objectives of the group are to develop tools to comply with the MS4 Permit, prepare for increased regulation and expand regional participation. The CMRSWC was awarded \$115,000 through the State funded CIC Program to accomplish the following tasks:

1. Collaborative Education and training
2. Regionalized Data Management Systems
3. Standardized Policies and Procedures

The CMRSWC has completed 10 tasks:

1. Develop an Online Database for Data Management.
2. Develop an Integrated Stormwater Mapping System.
3. Develop a Sump Pump Discharge Policy
4. Develop a Stormwater Pollution Prevention Plan (SWPPP) template
5. Develop a Salt/Sand Application Decision Tree to reduce chloride loadings to surface water.
6. Create a Small Development Stormwater Best Management Practice Toolbox

7. Develop a Request for Proposals (RFP) for Consulting Services for outfall inspection, system mapping, water quality monitoring, and other stormwater management activities.
8. Develop a Methodology for the 13 Communities to reach a common benchmark. Standard Operating Procedures for activities such as construction site inspection, dry and wet weather outfall inspection, catch basin inspection and cleaning, and other stormwater activities.
9. Develop a Stormwater Training DVD/CD with modules to reach multiple audiences, including municipal officials, the general public, and municipal staff.
10. Develop an Educational Website.

The CMRSWC was anticipating a \$200,000 grant, and when they were awarded \$115,000, they needed to ask each town for an additional \$2,833 to fulfill all the goals set forth for the upcoming year. Westborough felt that the investment would be well worth the benefits that this group has to offer. Training for the materials provided by the CMRSWC is ongoing. (see Appendix 6)

3.0 ASSESSMENT OF THE APPROPRIATENESS OF THE SELECTED BMPs:

The Best Management Practices (BMPs) selected for the stormwater program appear to be appropriate. Anticipation of a new NPDES MS4 permit has caused us to improve our current Stormwater Management Program, so that when the revised permit is issued, we will have a head start. Hiring 4 part-time seasonal employees to aid in mapping the drainage system has added a significant amount of information to our drain map. Furthermore, the decision to join the CMRSWC allows the Town the opportunity to further improve our stormwater program while at the same time save money by sharing resources.

4.0 LIST OF ACTIVITIES FOR THE NEXT REPORTING CYCLE

2. The Town will continue to air the stormwater video on cable TV.
 - The PSA by the Girl Scouts will be aired throughout the year.
3. Educational material from SUASCO will be displayed:
 - Stormwater display will be at Town Meeting
 - Sewer vs. Drain display
 - The Library will have a stormwater display.
 - The Senior Center will have a stormwater display.
4. The Town will continue to ask for volunteers to mark/stencil the catch basins, especially those that are in critical areas around town. The Boy Scouts and Girl Scouts seem interested in this project at this time.
5. The Town will continuously update the Drainage Map with new structures and will work toward completing the mapping of all drain pipes. This includes:
 - Adding information from the catch basin field data sheets that are collected by the Highway Department.
 - Hiring interns (subject to funding) to help add drain points and data to the Town's GIS

- Investigating unknown drains
 - Field locating, inspecting and cataloging outfalls
6. The Town will continue to hold a "Town Wide Earth Day Clean-Up" every year.
 7. The Town's Conservation Officer will continue to alert the commercial properties of their obligation to maintain their drainage infrastructure.
 8. The Town is continuously evaluating the illicit discharge bylaw. No illicit discharges have been found to date. Continuous evaluation of discharges will occur, and proper action will take place to correct any illicit connections.
 9. The Town will continue to review and implement the Stormwater Bylaw, and adjust if necessary.
 10. The Town will continue to perform preconstruction review of BMPs.
 11. The Town will periodically train/retrain employees.
 12. The Highway Department will continue collecting data on all the catch basins in town and searching for illicit connections as time and weather permit.
 13. The Town will file an NOI if the Draft General Permit for Stormwater Discharges from Small MS4 in Massachusetts is finalized and issued. If not, the Town will proceed under the guidelines of the 2003 permit as noted above.

5.0 TABLE 1 - BEST MANAGEMENT PRACTICES

Attached is a copy of our implementation schedule, as included with our NOI, as modified to reflect our progress in year eleven. The Board of Selectmen continued with its decision not to have a committee oversee the program, but to utilize current staff in lieu thereof.

TABLE 1
TOWN OF WESTBOROUGH, MASSACHUSETTS
NPDES PHASE II
STORM WATER MANAGEMENT PLAN
BEST MANAGEMENT PRACTICES (BMPs)

PUBLIC EDUCATION AND OUTREACH

ID	BMP CATEGORY	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL PERMIT YEAR 11	PLANNED ACTIVITIES
5.1.1	Homeowners	Mail educational flyer with stormwater survey	SuAsCo Council and DPW	Flyer distribution. Compile and evaluate survey results	Completed	Completed
5.1.2	Students	Teach stormwater lessons to fifth grader students	SuAsCo Council and DPW	Prepare and implement lesson	Completed – Junior Civil Engineer gave stormwater lesson to several groups of girl scouts.	Repeat lesson as availability occurs
5.1.3	Businesses	Mail educational flyer with stormwater survey	SuAsCo Council and DPW	Flyer distribution Logo Display	Completed. Letter from Conservation Officer informing businesses of their duties to clean their detention basins.	Continue each year.
5.1.4	General Public	Hold a stormwater media campaign Show a stormwater video on a local cable station	SuAsCo Council and DPW SuAsCo Council and DPW	4 press releases Develop and air stormwater video	Completed Completed. Aired on Cable TV twice/yr.	Completed Continue to air video
5.1.4 (new)		Display Educational Posters and Post Cards	SuAsCo Council and DPW	Distribute posters and post cards	Completed. Displayed educational material	Continue to display

PUBLIC PARTICIPATION AND INVOLVEMENT

ID	BMP CATEGORY	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL PERMIT YEAR 11	PLANNED ACTIVITIES
5.2.1	Homeowners	Circulate stormwater traveling display	SuAsCo Council and DPW	Develop display Feature at 3 locations	Completed. Displayed posters at Town Meetings. Continue promoting Rain Barrel Program.	Continue to display & promoting rain barrel program.
5.2.2	Students	Poster contest for fifth graders Photo contest for high school students	SuAsCo Council and DPW SuAsCo Council and DPW	Hold poster contest Hold photo contest, judge and display entries	Completed. Girl Scouts made educational video on stormwater pollution. Completed in Year 8.	Repeat as availability occurs. Repeat as availability occurs.
5.2.3	General Public	Hold a local stormwater summit Hold a watershed-wide stormwater summit	SuAsCo Council and DPW SuAsCo Council and DPW	Advertise and hold summit Advertise and hold summit	Completed Not Completed Must be coordinated by SUASCO	 Hold Summit if coordinated by SUASCO
5.2.3(new)	General Public	Catch Basin Stenciling	SuAsCo Council, Westborough Community Land Trust and DPW	Catch Basin Stenciling	Ongoing program available as interest develops	Repeat as Availability occurs.
5.2.3(new)	General Public	Earth Day Clean-Up	Westborough Community Land Trust	Earth Day Clean-Up	Completed. Volunteers gathered to clean-up around the waterways and streets.	Continue every year.

ILLCIT DISCHARGE DETECTION AND ELIMINATION

ID	BMP CATEGORY	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES
5.3.1	Stormwater system mapping	Map outfalls	DPW	Prioritize outfalls. Percentage of total outfalls mapped per year	100% of known municipal outfalls mapped in GIS	Complete GPS location of outfalls as they become available
		Map pipes manholes and catch basins	DPW	Prioritize areas. Percentage of total system	Hired 4 part-time seasonal personnel to aid in developing the drainage map. Spent 918 hours in 2013. Cost \$12,110.	Hiring interns to help complete mapping of structures and pipes.
		Map structural BMPs (i.e. detention basins, water quality inlets, etc)	DPW	Percentage of total structures	Added structural BMPs to the Town's GIS	Complete mapping of system.
						Update map as new BMPs are constructed
5.3.2	Regulatory Mechanism	Develop a bylaw prohibiting non storm water discharges into storm sewer system	DPW and/or Board of Health	Formation of a technical committee and annual review of program. Development of a bylaw	Completed. Review of Illicit Discharge Bylaw is being done regularly	Continue to implement Bylaw
		Develop enforcement procedures for non storm water discharges including illegal Dumping	DPW and/or Board of Health	Development of enforcement procedures	Completed. Enforcement included in the Bylaw	Continue to implement Bylaw

ILLICIT DISCHARGE DETECTION AND ELIMINATION

ID	BMP CATEGORY	BMP	DEP. RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES
5.3.3	Illicit Discharge Detection and Elimination Plan	Identify areas likely to have illicit discharges Develop and implement a plan to detect and address illicit discharges Implement illicit discharge detection and elimination inspection	DPW DPW DPW	Develop record keeping. Prioritize outfalls. Percentage of outfalls inspected Plan Completion Identify and train inspection agents. Begin inspections	100% of known outfalls inspected in 2013. As reported the last two years, the town has completed about 80,000 linear feet of TV sewer inspection of the sewer system including its main interceptor and about 700 residential house inspections. The residential inspections identified about 3% of inside connections and 25% of outside connections which have potential inflow and will require further investigation. That investigation has not yet occurred. A portion of remaining funds were used to camera the 40+ year old interceptor from downtown to WWTP. The inspection did not reveal any problems other than some deterioration from hydrogen sulfide gas. Also we had previously noted that \$70,000 was allocated at the March 2012 ATM for a drainage study which will start TV work on the drainage system. This study kicked off in February and early March and	Continue to inspect outfalls. Complete investigation of suspected residential inflow from drain to sewer. Continue drainage system evaluation with additional funds approved at the March 14 annual Town Meeting which will yield an opportunity to view any potential sewer to drain illicit connections.

						another \$120,000 in funding was approved at the March 2014 Annual Town Meeting to continue investigation. The priority will be to evaluate corrugated metal pipe, however, illicit discharges will also be identified.	
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ILLCIT DISCHARGE DETECTION AND ELIMINATION							
ID	BMP CATEGORY	BMP	DEP. RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES	
5.3.3 (cont.)				Identify and train inspection agents. Begin inspections	The Highway Dept. is inspecting all catch basins in town. Summer interns trained on how to inspect the outfalls.	Continue until all catch basins are inspected.	
5.3.4	Post removal evaluation and reporting	Implement a program to evaluate and report on cond. after illicit conn. removed.	DPW	Annual Report	No illicit discharges found to date.	Will provide report on post removal evaluation if illicit discharges are found.	

CONSTRUCTION SITE RUNOFF CONTROL

ID	BMP CATEGORY	BMP	DEP. RESP. FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES
5.4.1	Regulatory Mechanism	Develop and implement a bylaw regulating erosion and sediment control for construction sites utilizing appropriate BMPs	DPW and Planning Department	Formation of a technical committee and annual review of program. Development of a bylaw	Completed. Bylaw adopted in Year 6. Bylaw implemented by issuing Stormwater Permits.	Continue to implement Bylaw and review.
5.4.2	Site Plan Review Procedures	Implement pre-constr. review of SW control plan for prop. construction site	DPW and Planning Department	Identify and train staff Review each project	Completed. Plans reviewed for site runoff control. 13 projects permitted in 2013 with local SWPPP.	Continue Plan Review and requiring local control and reporting
5.4.3	Site Inspection and Enforcement Procedures	Conduct construction site inspections Develop a procedure for handling reports of non-compliance	DPW DPW	Identify and train staff. Review each project Development of procedure	Completed. Trained staff to perform regular inspections of construction sites Completed. Enforcement included in Stormwater Bylaw	Continue Inspection Continue to implement procedure

POST-CONSTRUCTION RUNOFF CONTROL

ID	BMP CATEGORY IN NOTICE OF INTENT (NOI)	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES
5.5.1	Regulatory Mechanism	Develop and implement a bylaw regulating controls for post construction runoff utilizing appropriate BMPs	DPW and Planning Department	Formation of a technical committee and annual review of program. Development of a bylaw	Completed. Stormwater Bylaw with provisions for post-construction runoff implemented in Year 6.	Continue to implement bylaw
5.5.2	Plan Review of BMP Designs	Implement preconstruction review of BMPs for conformance with regulations	DPW and Planning Department	Identify and train staff. Review each project	Completed. Staff trained. 13 plans reviewed in 2013.	Continue to Review Plans
5.5.3	Site Inspection/Enforcement Procedures	During construction, inspect for assurance that BMPs are compliant	DPW	Identify and train staff. Inspect each project.	Completed. Staff trained. Construction projects inspected on a regular basis.	Continue to enforce bylaw and procedures
5.5.4	Operation and Maintenance Procedures for Structural BMPs	Develop operation and maintenance procedures for structural BMPs	DPW	Development of procedure	Completed. Operation and Maintenance Plans have been required for all BMPs	Continue to enforce

POLLUTION PREVENTION/GOOD HOUSEKEEPING

ID	BMP CATEGORY	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 11	PLANNED ACTIVITIES
5.6.1	Employee training Program	Implement employee training	DPW	Develop goals. Develop program. Annually conduct training	Employee training completed in Year 7. Training to new staff is continuous.	Continue developing training program
5.6.2	Stormwater System Operation and Maintenance	Enhance the existing storm sewer system and catch basin cleaning Structural BMP inspection and maintenance program	DPW DPW	Implement schedule. Strengthen record tracking. Clean all catch basins twice per year Develop and implement record keeping. Annually inspect and clean all BMPs once per year.	Completed. New CB data collection program continues as time allows in the Highway Department. Partially Completed. 50% of catch basins were cleaned last year. Equipment failures made it troublesome to achieve goal of 100%. Problematic basins were cleaned after each rain storm. Outfalls which were in need of repair have been identified and a maintenance schedule is in place to remedy the problems.	Continue to maintain record keeping procedures. Continue to implement program. Clean more basins twice/yr and clean basins on mains which were not cleaned previous year.
5.6.3	Parks and Open Space	Develop and implement a management program for fertilizer and pesticide application	Parks Department	Annually summarize applications	Completed. Application of fertilizers and pesticides is analyzed every year and modified for the following year.	Continue to implement program

ID	BMP CATEGORY	BMP	DEPARTMENT RESPONSIBLE FOR IMPLEMENTING BMP	MEASURABLE GOALS	PROGRESS ON GOAL(S) PERMIT YEAR 10	PLANNED ACTIVITIES
5.6.4	Municipal Vehicle Maintenance and Repair	Review maintenance and repair programs for municipal vehicles	DPW	Review every two years	Completed. Potential for stormwater pollution is prevented by proper use of spill collection devices that are continuously being utilized, then replenished.	Continue to evaluate operations and make improvements
5.6.5	Municipal Roads	Enhance street sweeping operations	DPW	Strengthen record tracking system. Evaluate increasing frequency in urban areas. If applicable, increase frequency.	Completed. Evaluated record keeping and modified as necessary. 100% of streets swept in spring and fall and downtown area swept every Friday.	Continue to evaluate and strengthen record keeping and continue street sweeping program.