

Municipality/Organization: EASTHAMPTON, MA

EPA NPDES Permit Number: MAR041006

MaDEP Transmittal Number: W-036183

AUG 29 2011

**Annual Report Number
& Reporting Period:** No. 8: March 10-March 11

NPDES PII Small MS4 General Permit Annual Report

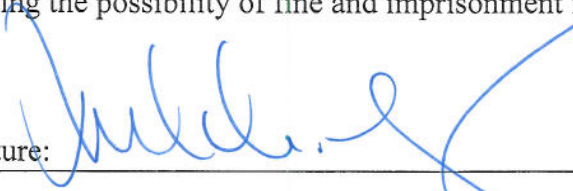
Part I. General Information

Contact Person: James A. Gracia Title: City Engineer

Telephone #: 413-529-1423 Email: jgracia@easthamptonwater.com

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: Michael A. Tautznik

Title: Mayor

Date: 8-29-2011

Municipality/Organization: EASTHAMPTON, MA

EPA NPDES Permit Number: MAR041006

MaDEP Transmittal Number: W-036183

**Annual Report Number
& Reporting Period:** No. 8: March 10-March 11

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: James A. Gracia **Title:** City Engineer

Telephone #: 413-529-1423 **Email:** jgracia@easthamptonwater.com

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: Michael A. Tautznik

Title: Mayor

Date: 8-29-2011

Part II. Self-Assessment

The City of Easthampton has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

Part II.B.1 Public education and outreach program has been initiated on a very limited basis. More work should be done to educate the public on storm water related issues.

Part II.B.2 The Public Involvement and Participation Component of the permit has been instituted on a very informal basis. An existing volunteer group has been in existence for a number of years already, acting as a “watch dog” group for the Nashawannuck Pond and its tributaries. This group has been responsible for a number of improvements in the pond and its tributaries, with the goal of improving the water quality and removing the pond from the 303d listing of impaired waters. The dredging of Nashawannuck Pond was finally completed in 2010. This was a very visible project and the subject of stormwater management was discussed at various public forums relating to the dredging work. We are now working on dredging two sedimentation basins, one each on the two main feeder streams of the pond. The public hearing for the permitting process shall highlight the need to be vigilant about land disturbance activities within the watersheds of our wetland resources.

Part II.B.4 The Construction Site Stormwater Control program has been bolstered by a local regulatory ordinance which shall be adopted soon. This Stormwater Ordinance specifically targets construction activities outside of the jurisdiction of the local Conservation Commission and the MA Wetlands Protection Act, as well as smaller land disturbance activities which could potentially cause erosion or stormwater degradation. A draft of the stormwater ordinance was submitted to the City Council and Planning Board and open public discussions, concerning the local ordinance, have been held. The full City Council will vote on the ordinance during the next permit cycle.

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1 Revised	Promote a Stormwater Program	DPW, Planning Board, Conservation Commission, Board of Health, Mayor	Easthampton will educate the public about the new Stormwater Ordinance	Applicants of permits have been educated on the need for a Stormwater permit in the coming year.	Produce literature for distribution along with permit application forms.
2 Revised	Identify financial support for a Stormwater Program	DPW	Identify appropriate sources of funding assistance (grants) and apply for assistance in implementing portions of Stormwater Management Program	Upgrades to our existing stormwater system have been routinely funded as part of our annual road improvement program funded by state programs for highway improvements (Chapter 90). Continued vigilance by our Planning Department for grant programs which can include stormwater work.	Continue to target grant programs with the aim of enhancing and evaluating the existing in-house data and mapping. Utilize existing budgets to whatever extent possible to continue stormwater management of municipal facilities and roadways.
3 Revised	Target groups likely to impact stormwater	DPW	Produce literature targeting specific groups and activities which impact stormwater	Development proposals brought before the City in the past year have been made aware of the requirement to file for the federal stormwater permit, and warned that a local permit will be required soon.	Finalize and publish literature for distribution. Prepare literature for broadcast on local public access television.
4 Revised	Identify alternative information sources	DPW	Post links on local website(s) to CT River Watershed Council website and to MA DEP and USEPA websites	MA DEP, USEPA, and CT River Watershed Council websites have been reviewed.	Contact our City of Easthampton website administrator about adding links to the appropriate websites.

5	Utilize local public access channel	DPW	Post public meeting notices concerning review of Easthampton Comprehensive Stormwater Management Program on local community access channel	No meetings have been held yet.	Plan and schedule public meetings and post on local Community Access Channel. Broadcast open forums on Public Access channel.
	Revised				
6	Develop, conduct, and document educational programs	DPW, CT River Watershed Council Liaison	City to appoint liaison to CRW Council to disseminate info on programs and activities of CRWC	We no longer have a local representative on the CRWC, however, we are kept informed of issues relating to that Council.	Continue to maintain communications with the CRWC through our Planning Department and Conservation Commission.
	Revised				

1a. Additions

7	Promote household waste recycling	DPW, Board of Health	Sponsor Hazardous Waste Recycling Days	Did not hold any local hazardous waste collection days, but promoted such held in Northampton. Held city wide Bulk Waste pick up by local haulers.	Will continue to hold bulk waste collection days on an annual basis. Will hold Hazardous Waste pick up days if budgets allow.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
8	Storm Drain Stenciling	DPW	Work with local youth groups to develop stenciling projects	Stenciling of catch basins was proposed by a local youth group, but the project did not come to fruition.	When main thoroughfares are reconstructed, will ask local schools and scout troops for volunteers to stencil the new basins upon completion of the roadway paving.
Revised					
9	Community Wetland Resource Area Clean-Up Days	DPW, Conservation Commission	City will encourage local stream clean-ups by local residents and youth groups. Solicit volunteers and sponsors in local access TV channel	Annual Community clean-up day held again this year. Clean-up along Nashawannuck Pond was included. Local business owner group along the pond provide funding and volunteer labor to keep edge of pond clean.	Try to expand clean-up day to include tributary streams feeding Nashawannuck Pond.
Revised					
10	Community Clean-Up Days	DPW	City to provide trucks and equipment for community clean-up efforts and disposal of waste	Annual Community Clean-up Day held in May. Clean-up Day has been held for last several years.	Continue Community Clean-up Day
Revised					
Revised					
Revised					
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
11 Revised	Identify Financial Assistance for inventory and Mapping of Storm Drain System	DPW	Identify appropriate sources of funding assistance (grants) and apply for assistance in implementing portions of Stormwater Management Program	The 604b grant program is monitored for eligible grant programs to fund additional mapping and study of our drainage system. To date, no eligible projects have been identified and/or approved.	Continue to submit grant request for 604b funding to do the same type of work. Watch for additional grant sources.
12 Revised	Mapping and identification of outfalls and receiving waters	DPW	Continue to maintain and update maps of all outfalls and receiving bodies of water	Prior mapping of all known outfalls, drainage structures, and conveyances has been updated with new information obtained in the field. New catch basins installed and existing catch basins replaced were documented on plans. Original mapping did not accurately show the route of all pipelines from structure to structure, therefore, corrections and edits were made to the base map as information became available.	Continue to edit drainage system base map. Location of any unmapped stormwater outfalls shall be determined and added to the maps. Stormwater systems on new subdivisions to be added as plans become available and systems are constructed.
13 Revised	Identification/description of problem areas	DPW	Continue to develop and implement an Illicit Discharge Detection and Elimination plan.	Prior mapping and dry weather sampling has already identified and prioritized outfalls which require additional investigation.	Continue to investigate and correct, where feasible, known problem outfalls.

14	Enforcement procedures addressing illicit discharges	Planning Board, City Council, Board of Health	Review whether local authority is appropriate and able to respond to potential illicit discharges. New bylaws, if necessary, to be proposed	With assistance from Pioneer Valley Planning Commission, a committee had drafted a local Stormwater Ordinance. The Ordinance has been submitted to the City Council.	Pursue City Council approval of the proposed Stormwater Ordinance
Revised					
15	Public Information program regarding hazardous wastes and dumping	DPW, Board of Health	Provide educational brochures to residents promoting proper disposal of household hazardous wastes	A display is maintained by the Board of Health and the City Planner containing pamphlets and literature for a number of different good house keeping procedures as they pertain to household hazardous waste storage and disposal.	Maintain a supply of brochures at counter in municipal office building which explains potential problems with illicit dumping of hazardous waste.
Revised					
16	Initiation of Recycling Programs	DPW, Board of Health	Apply for funding assistance from DEP Recycling Grant Program for assistance in public education and the purchase of recycling materials	City currently maintains and operates a recycling center at the Highway Department Yard. Recyclables accepted are paper/cardboard products, glass, cans, bottles, plastics, metals, automotive batteries, and yard wastes. Waste oil is also collected and burned in waste oil furnaces in the Highway Department buildings. An annual sticker fee is charged. Large appliances, containing refrigerants, are now accepted for a separate fee. The City now removes the refrigerants, utilizing licensed technicians.	City Planning Department will continue to apply for grants as they become available for all phases of the recycling program.
Revised		Add Planning Department			

3a. Additions

17	Watershed Assessments and studies	DPW, Conservation Commission, Board of Health Add Planning Department	Identify opportunities for funding assistance from 604b and 319 grant programs and from MA DEM Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks can include design and installation of stormwater BMP's and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation of stormwater related problems impacting water quality in Nashawannuck Pond, which has been identified as impaired on the DEP 303d list.	The US Army Corp of Engineers has completed the dredging of Nashawannuck Pond.	Applications will be submitted for any new grants which become available for future stormwater work.
18	Watershed Assessments and studies	DPW, Water Department	Water Department will apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zone II's	No new grants or funding assistance were obtained for Watershed Assessment, however, a local college professor has continued to study the Easthampton watershed as a learning tool for his hydro-geology students.	Submit applications for grants to assist with a stormwater management plan within our Zone II's.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
19	Bylaw: Stormwater Management regulations for constructions sites 1 acre or larger	Planning Board, Conservation Commission, City Council, Board of Health, ZBA	Adopt Stormwater Ordinance by City Council	The proposed new ordinance included language to cover construction sites larger than 1 acre.	Pursue the adoption of the Stormwater Bylaw.
Revised					

5. Post-Construction Stormwater Management in New Development and Redevelopment

20	Bylaw: Require post-construction runoff controls	Planning Board, Conservation Commission, City Council, Board of Health, ZBA	Adopt Stormwater Ordinance by City Council	The proposed new ordinance includes language concerning post construction runoff controls.	Pursue the adoption of the Stormwater Bylaw.

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
21	Develop a municipal operations and maintenance plan	DPW	Using regulations and recommendations from DEP and EPA, develop and update an operations and maintenance plan to include proper disposal of street sweepings, catch basin cleanout, snow disposal, roadway de-icing procedures, vehicle washing, and outside storage of materials.	The Spill Prevention and Control plan, which was prepared by our consultant, has been implemented.	Continue to monitor the Spill Prevention and Control Plan, including regular inspections of facilities.
Revised					
22	Develop Storm Sewer Inspection Program	DPW	Implement a formal inspection program, including maintenance logs and scheduling, for catch basin cleanings, repairs, and new installation.	City Engineer has begun preparations for program, including system to record maintenance, repair, and construction of storm sewer system.	Instruct department personnel in documentation of maintenance, repair, and construction of storm sewer system. Initiate formal record keeping procedure.
Revised					
23	Develop and implement training program for municipal employees	DPW	Send minimum of 5 public works employees to annual training seminars sponsored by relevant agencies and/or vendors.	City Engineer, Utilities Supervisor, Sewer Department Foreman, Water Department Foreman, and 5 other public works employees have attended seminars and trade shows associated with public works related operations.	Expand the attendance of seminars by employees involved in snow removal and street cleaning operations, sewer system maintenance and repair, and sanitary sewer maintenance connections.

Revised							
24	Review storm drainage infrastructure needs	DPW	Incorporate storm drain infrastructure review in Chapter 90 project utilizations	City engineer has included storm drainage improvements and maintenance in all roadway improvement projects for the last several years. Improvements have been made by both municipal forces prior to contracted road work operations begin, and by private contractors during Chapter 90 funded highway improvement projects. A total of 42 new catch basin installations were done in the past year, which were all replacements of existing substandard basins which did not have adequate sumps to collect roadway sediments.	Continue to include storm drainage upgrades, wherever feasible, in all Chapter 90 work to be undertaken and any other road construction work funded by other sources.		
Revised							
Revised							

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

No TMDLs Established In Easthampton

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
Revised					

7a. Additions

Part IV. Summary of Information Collected and Analyzed

- Edits and corrections have been done to our stormwater system maps, as new information has been obtained. Original mapping project located all drainage system structures (catch basins, manholes, headwalls, and culverts) by GPS methods. The GPS locations were input on the base map in a GIS format and AutoCad format. The DPW Engineering Department has updated the base map periodically (in AutoCad format only) to reflect corrections to the mapping and new structures which have been added.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	0

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	?
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	No new teams
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes 0.1 mi.
Household Hazardous Waste Collection Days		

▪ days sponsored	(#)	0
▪ community participation	(%)	?
▪ material collected	(tons or gal)	?
School curricula implemented	(y/n)	No

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	97%
Estimated or actual number of outfalls	(#)	140
System-Wide mapping complete	(%)	97%
Mapping method(s)		
▪ Paper/Mylar	(%)	75%
▪ CADD	(%)	97%
▪ GIS	(%)	95%
Outfalls inspected/screened	(# or %)	64
Illicit discharges identified	(#)	11
Illicit connections removed	(#)	4
% of population on sewer	(est. gpd)	
% of population on septic systems	(%)	98%
	(%)	02%

Construction

Number of construction starts (>1-acre)	(#)	2
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	3
Qty. of sand/debris collected by sweeping	(lbs. or tons)	?
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost
Cost of sweepings disposal	(\$)	?
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0

--	--

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

Anti-/De-Icing products and ratios	% NaCl	70
	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	30
Pre-wetting techniques utilized	(y/n)	Y
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 %)	?
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N