

Rec'd
5/3/10
P

Municipality/Organization: Town of Plymouth

EPA NPDES Permit Number: MAR 041150

MaDEP Transmittal Number: W-40949

**Annual Report Number
& Reporting Period:** No. 7: March08 – March09

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: David Gould **Title:** Environmental Manager

Telephone #: 508-747-1620 Ext. 134 **Email:** dgould@townhall.plymouth.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: David Gould

Title: Environmental Manager/Acting DPW Director

Date: 4/29/10

Part II. Self-Assessment

The Town of Plymouth 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 1.B.2 (e) (Vi)** The Town of Plymouth's permit eligibility with regard to the Endangered Species Act is still pending at the time of our NOI submission. Our MS4 discharges will have the potential to impact the existence of specific species protected under the Endangered Species Act. We will investigate more on this issue of concern.
- Part 1.B.2 (k)** Some discharges have been determined (through DMF Sanitary Survey) to be contributing to exceedance of water quality standards in Plymouth Harbor. These discharges have been made priorities in our NPS Pollution Grant Program.
- Part 11.B.8** The DPW Engineering and Planning Departments worked in cooperation to complete the "Guide for the Design of Storm Drainage Facilities in the Town of Plymouth, Massachusetts" (attached). The guide is now part of the Planning Subdivision Regulations as well as DPW policy. The guidelines include, but are not limited to, the following items:
- Acceptable Best management Practices with specific reference to State of Massachusetts BMP standards including Low Impact Standards and Conventional Standards for various structures and functions including nutrient removal in harbors and ponds, total suspended solids(TSS) removal in streams, resource crossing regulations and standards including fish passage and openness ratios, and removal rates;
 - Plant selection guidelines for vegetated BMPs;
 - Water quality and water quantity management guidelines;
 - Design guidelines for BMPs Low Impact Design (LID) standards and Conventional Standard Design standards for various structures including those functions listed above;
 - Selection criteria for BMPs;
 - Incentives for implementing LID practices.

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)	Progress on Goal(s) Permit Year 5	Progress on Goal(s) Permit Year 6
1-1	Educational Flyer	Town Engineer/ Town Manager	Post in all schools & Town buildings	The Town is working in collaboration with Greenscapes in the distribution of brochures and pamphlets on BMP's. The Town has also placed educational posters in the DPW offices in the Town Hall facility.	The Town established a stormwater webpage, purchased SuAsCo educational materials, distributed educational materials to the School Dept, purchased "Sprink" educational computer games and public service announcements for a year on public access cable television. A SuAsCo stormwater educational display was posted in Town Hall, DPW Day, Harbor One Bank and public library for the past year.	The Town renewed the "Sprink" educational contract for the Town's Website & Public Access Channel. The link on the Town's website includes interactive computer games for children as well as information on Hazardous Waste Days and the educational information on stormwater. Public service announcements are posted on the local access cable television on a rotating basis. The SuAsCo stormwater display has been rotated in various locations through Town Hall and also displayed at DPW Day.
Revised						
1-2	Form Public Education Task Force	Town Engineer/ Environmental Manager	Participation in town wide events & schools	Establishing the task force through advertisement and interviewing. Holding one workshop per year.	The Town conducted two workshops and one public meeting on the new stormwater management guidelines.	The Town's Planning Department was the lead on conducting meetings and moving forward with the stormwater management guidelines (attached).
Revised	Educational Workshops	Town Engineer/ Environmental Manager	Schedule Workshops			

1-3	Air stormwater message on local cable access channel	Town Engineer	Post one message every month	None to date	Four (4) "Sprink" public service announcements were purchased and ran on local cable for one year as in the previous year.	Four (4) "Sprink" public service announcements were purchased and ran on local cable for one year as in the previous year.
Revised						
1-4	Storm Drain Stenciling	Town Engineer/Conse rvation Comm./Environmental Manager	Stencil Storm Drains with Messages (25% each year)	Have received the storm drain markers. 50 are all in place.	Storm drain markers were installed at several locations throughout Town.	The Town has purchased additional storm drain markers for the downtown harbor area which will be installed this year.
Revised	Storm drain Markers	Environmental Manager	50 per year			
1-5	Map outfalls and receiving waters	Town Engineer	Map of discharge pipes to waters & wetland (20%/yr.)	100% of Outfalls have been located by GPS. Catch basins are approximately 50-70% complete.	Completed GPS location efforts and completed mapping of outfalls and catch basins.	Complete and updated as needed by Town Engineering Department.
Revised						
Revised						

1a. Additions

1a.	Media coverage	Town Engineer	Story coverage on NPS Pollution Projects.	Coverage in the local newspaper.	Additional coverage's in local newspaper.	March 24, 2009 Presented before Board of Selectman on the Section 319 Grant Stormwater Pollution Remediation Project. More planned media coverage and educational signs.
-----	----------------	---------------	---	----------------------------------	---	--

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)	Progress on Goals – Permit Year 5	Progress on Goals – Permit Year 6
2-1 Revised	Hazardous waste collection	DPW Recycling Coordinator DPW	Twice/yr. (min.)	Two events were held in 2006. There were 572 participants from the community.	Two events were held 2007.	Two events were held in 2008.
2-2	Volunteer Water Quality Monitoring	Environmental Management	Level of participation	Natural resources officer with the help of volunteer group has completed thirty (30) ponds.	Sought and received \$15,000 in funding for a pond monitoring program Plan to continue this effort and increase sampling efforts.	The Town implemented the Pond Monitoring Program in collaboration with 4 Pond Associations. The Town also applied for additional funding through grant applications.
Revised	Rain Barrel Program				The Town proactively made available and sold 126 rain barrels for residents in Plymouth.	The Town received a grant from DEP to discount the first 100 rain barrels and the Town is currently implementing the program to be completed in May.
2-3 Revised	Citizen Stormwater Committee/Lake Associations	Town Engineer/Natural Resources Officer Town Engineer/Environmental Manager	Hold meeting to plan for stormwater issues/mgmt.	Establishing the task force through advertisement and interviewing.	Not completed	Not completed
2-4	“Adopt a Storm Drain Program”	Town Engineer/Natural Resources Officer	Participation in Community Clean-ups	Working with volunteer group to establish the program.	Three community clean-ups were organized and held.	Two community clean-ups were organized and held.

Revised									
2-5	Citizen watch Groups	Town Engineer/Natural Resource Officer	Aid Local Enforcement author. In the identification of polluters	Establishing the task force through advertisement and interviewing.	Not complete	Not complete			Not complete
Revised									
Revised									

3. Elicit 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)	Progress on Goal(s) – Permit Year 5	Progress on Goal(s) – Permit Year 5
3-1	Develop illicit dischg. id. & elim. plan	Town Engineer/BOH/Environmental Manager/Planning Bd.	Make recommendations for the plan	Working with engineering interns in the determinations of illicit discharges during GPS mapping for catch basins and outfalls. The Town is continuing the Infiltration and Inflow Control Studies.	Investigating drainage area of outfalls, and to locate sources when and if will be identified.	Investigating drainage area of outfalls, and to locate sources when and if will be identified.
Revised	Screen outfalls for Illicit connections	Public Works	Screen outfalls by Winter 07-08			
3-2	Drainage Network Mapping	Town Engineer	Drainage of urbanized areas	100% of outfalls have been located. 50-70% of catch basins have been located.	Outfalls and catch basins have been completed.	Outfalls and catch basins have been completed.
Revised						
3-3	Public Info. on illicit connections/illegal discharges	Town Engineer/Board of Health	Educating the public-hazards associated with these activities	The DPW completed the draft Sewer Division Rules & Regulations in which there will be a presentation at Spring Town Meeting.	Section twelve of the Sewer Division Rules & Regulations has been approved and states that surface runoff is prohibited.	Section twelve of the Sewer Division Rules & Regulations has been approved and states that surface runoff is prohibited.
Revised						

3-4 Revised	Develop/Modify general illicit discharge bylaw	BOH/Planning Board	Developing/modifying the plan	DPW has completed the draft Sewer Rules & Regulations that address illicit discharges.	The Town adopted a Guide for Storm Drainage Facilities that address illicit discharges in 2008 by Planning Board, DPW and Inspectoral Services.	The Town adopted a Guide for Storm Drainage Facilities that address illicit discharges in 2008 by Planning Board, DPW and Inspectoral Services.
3-5 Revised	Present Bylaw for town meeting action	BOH/Planning Board	Make presentations for town Meeting action	DPW has completed the draft Sewer Rules & Regulations that address illicit discharges.	Section twelve of the Sewer Division Rules & Regulations has been approved and states that surface runoff is prohibited. The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectoral Services.	Section twelve of the Sewer Division Rules & Regulations has been approved and states that surface runoff is prohibited. The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectoral Services.

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)	Progress on Goal(s) – Permit Year 5	Progress on Goal(s) – Permit Year 6
4-1 Revised	Wetlands by-law for stormwater management	Conservation Commission	Town Meeting Action	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Adopted by Town Meeting – Fall 2007	Adopted by Town Meeting – Fall 2007

4-2	Subdivision regulations for stormwater management	Planning Board	Change subdivision Rules and Regulations	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.
Revised						
4-3	Erosion control by-law	Planning/Zoning Board of Appeals	Town Meeting Action	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services
Revised						
4-4	Reporting hotline	Town Engineer/Planning Board	Set up procedures in response to info submitted by public	Establishing the telephone No. will continue to advertise telephone number.	Hotline number was included within the Sprink PSA's and on the Town website.	Hotline number was included within the Sprink PSA's and on the Town website.
Revised						
4-5	Site plan review/constr. Site inspection program	Town Engineer, Planner/Building Inspector	Review all plans, inspect, & visit construction site	Drafting to implement an interim policy for all current jurisdictional projects that requires Eng. To review and approve ESC plans.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services	
Revised						

4a. Additions

4a-1	Guide for the Design of Storm Drainage Facilities in the Town	Planning Department/DPW	In March of 2009 the "Guide for the Design of Storm Drainage Facilities in the Town of Plymouth" was established as part of the Town's grant application with EOE/Smart Growth Funding. (see attached)
------	---	-------------------------	--

4a-2	Rain Gardens	Environmental Management	Town received \$125,000 through Coastal Pollution Remediation Grant for Town Brook rain garden implementation.
4a-3	BMPs Eel River Watershed	Town Engineering Environmental Management/Town Engineering	Town is currently in the permitting process for rain garden along Water Street, Plymouth waterfront. The Town has and will be implementing additional BMPs within the Eel River Watershed.

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 4 (Reliance on non-municipal partners indicated, if any)	Progress on Goal(s) – Permit Year 5	Progress on Goal(s) – Permit Year 6
5-1 Revised	Stormwater Manage. By-law-Development Construction Site Runoff Control and Pretreatment	Planning/Zonin g Bd. & Conservation Commission	Strategies to be developed	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.
5-2 Revised	Stormwater Manage. By-law Development Post Construction Stormwater Management	Planning/Zonin g Bd. & Conservation Commission	Formulation of the By-law	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services.
5-3 Revised	Conservation Comm. Wetlands By-law	Planning/Zonin g Bd. & Conservation Commission	Presentation for Town Meeting Action	The Town is currently, 2007, working on stormwater guidelines and regulations for BMPs. This will be completed in 2007.	Conservation incorporated the Guide for Storm Drainage Facilities manual in the regulations.	Conservation incorporated the Guide for Storm Drainage Facilities manual in the regulations.

Revised									
Revised									

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)	Progress on Goal(s) – Permit Year 5	Progress on Goal(s) – Permit Year 6
6-1 Revised	Street sweeping program	Highway	Spring annual sweeping record sweeping as needed	Completed annual sweeping program. Sweeping program is now in place.	Completed annual sweeping program. Sweeping program is now in place.	Completed annual sweeping program. Sweeping program is now in place.
6-2 Revised	Catch basin/drain cleaning	Highway	500 per year (record) Clean all catch basins once every 3 years.	2000 catch basins were cleaned in 2006.	2000 catch basins were cleaned in 2007.	2000 catch basins were cleaned in 2008.
6-3 Revised	Annual training at town facilities	Town Engineer	Conduct training, prepare literature, record attendance	Conducted 1/2 -day training to all key department staff regarding pollution prevention practices and SWMP implementation.	Conducted 1/2 -day training to all key department staff regarding pollution prevention practices and SWMP implementation.	Conducted 1/2 -day training to all key department staff regarding pollution prevention practices and SWMP implementation.

6-4	Policy Guide	Town Engineer	Developing the Policy Guide	Inventory town-owned BMP's and drafting O & M procedures for the town's detention ponds and particle separators.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services. Town is developing stormwater O&M procedures.	Included in The Guide for Storm Drainage Facilities was adopted in 2008 by Planning Board, DPW & Inspectional Services. Town is developing stormwater O&M procedures.
Revised	O & M program for town-owned structural BMP's		Implement O & M program by Spring 06			
6-5	Permit filing for the town's activities related to Phase II	Town Engineer	Permits Filed as needed	Permits filed for our DPW facilities.	Continuing program.	Continuing program.

6a. Additions

6.6	Vehicle washing	Public Works	Implemented washing policy and constructed washing facility.	Implemented policy to wash only within designated locations, without the use of cleaners or degreasing agents.	Continuing program.	Continuing program.
6.7	Implement Integrated Pest Management (IPM) at Town Facilities	Parks & Recreation	Train facility employees and practice IPM town-wide by Summer 2008.	Inventory current chemicals, and practices used on town parcels.	Inventory current chemicals, quantities, and practices used on town parcels. Training has not been completed.	Inventory current chemicals, quantities, and practices used on town parcels. Training has not been completed.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2

Revised							
Revised							
Revised							
Revised							
Revised							
Revised							

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

As noted in the Mapping Section below and in the attached map the town has completed the outfall mapping and is 100% complete with the catch basin mapping.

Part V. Program Outputs & Accomplishments (OPTIONAL)