

**Municipality/Organization:** Avon, MA  
**EPA NPDES Permit Number:** MAR041089  
**MassDEP Transmittal Number:** W-044647  
**Annual Report Number & Reporting Period:** Year 12  
April 1, 2014 – March 31, 2015

## **NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2015)**

### **Part I. General Information**

**Contact Person:** William A. Fitzgerald, Jr. **Title:** DPW Director  
**Telephone #:** 508-588-1414x1024 **Email:** wfitzgerald@avonmass.org  
**Mailing Address:** Town Hall, 65 East Main St, Avon MA 02322

#### 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:** William A. Fitzgerald, Jr.

**Title:** DPW Director

**Date:** May 1<sup>st</sup>, 2015

## Part II. Self-Assessment

### Self Assessment

New

The town created a Department of Public Works on July 1, 2014, managing the Highway and Water Departments, with all responsibilities under the Board of Selectmen. A DPW Director was hired and started in early September. This creates a single point of responsibility to manage the full scope of stormwater issues. Since almost all stormwater in Avon releases into the drinking water well Zone II's,--and much of it flows through Zone I's, maintenance and performance of the stormwater system is as much a drinking water issue as a receiving water concern.

An early initiative of the new DPW was to modernize the Town's snow fighting approach. In earlier days, there was a public perception that sand was benign as far as impact on receiving waters, and salt use should be severely limited. It's now understood sand is as much if not more environmental detrimental., collecting heavy metals, oil, grease and other automotive byproducts. A large amount of the material flushes into storm drains before spring sweeping can occur, and, as said by EPA Region 1, sand spread on roads during the winter "...clogs storm water catch basins and fills streambeds. It also clouds the water, hurting aquatic animals and leading to an increase in microorganisms. Sand is also ground into a fine dust by traffic. This dust can trigger respiratory problems like asthma." Snowfighting changes included:

- eliminating use of sand (after 2013-2014 purchased stockpiles were depleted) except at extreme cold temperatures where salt would not be effective, and also some limited locations
- calibrating spreaders to control the amount of salt put down;
- piloting an agricultural additive that allowed a normal amount of salt to be effective at lower temperatures that would require a great increase in the amount of salt per lane mile.

These approaches are believed to have greatly reduced environmental impacts of winter operations, while improving public safety.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
101	Stormwater Impacts Mailer	Selectmen	1 Town Wide Mailing	Included in town wide Selectmen's mailing May 2014	To be included in town wide Selectmen's 2015 mailing.
Revised					
102	School Stormwater Science Project	TA/School Sup't	1 Class Science Project	Progress year 15 unknown	Will discuss feasibility of project with school, versus other Town/School joint education priorities
Revised		DPW			
103	Stormwater on Local Cable Access Show	Town Administrator	1 show on environmental/stormwater issues	Showed EPA/DEP stormwater programs on Avon local cable. Confirmed Cable will continue in Year 16	Continue to air EPA/DEP info
Revised		DPW Director, Highway Foreman			
104	Youth Stream Cleanup	Town Administrator	Annual Stream Clean Up Day	Held May 10 <sup>th</sup> , 2014	Scheduled for May 3rd, 2015
Revised		Board of Health			
Revised					
Revised					

#### 1a. Additions

105	Grant funded Public Ed and Outreach	DPW	TBD	New	319 grant under development will include public education component.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
201	Stormwater Management Task Force	<del>Town Administrator</del>	Establishment of Task Force	We have put together a work group consisting of the Highway Department Foreman Operations Manager, the Water Department Superintendent, the Town Administrator and the Chairman of the Board of Selectmen	Workgroup will include the new DPW Director position and the Highway Foreman. Water Department Superintendent position eliminated. Awaiting new Phase II permit
Revised		DPW Director			
202	Publicity of Stormwater related articles/hearings	<del>Town Administrator</del>	Public Announcements for all stormwater articles/hearing	Information distributed on the Town's Web Site and on local cable.	
Revised		DPW Director			
203	Science Contest sponsored by Business Association	<del>Town Administrator</del>	Stormwater Science Contest	No action at this time	No action planned at this time. Other Town priorities with the Business Association.
Revised		DPW Director			
Revised					
Revised					
Revised					

### 2a. Additions

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### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
301	Map Stormwater Sewer Infrastructure	<del>Town Administrator and Highway Operations Manager</del>		Developed plan to begin mapping in 2015, begun April 2015. Norfolk County Mosquito Control provided GIS layers of ditches and streams. Pond St study area uploaded into OCPC GIS.	Mapping begun with assistance of Old Colony Planning Council. Plan to continue through summer with BSU intern.
Revised		DPW Director and Highway Foreman		Created stormwater asset layer to populate in the town's asset management program, Utility Cloud. Outfalls GPS complete April 28, 2015, with photos	
302	Education Flier on Basement Good Housekeeping Practices	<del>Town Administrator and Board of Health</del>		Board of Health to be approached on other stormwater issues and in addition to a possible flyer, place information on the Town's Web Site. To be included in May 13 Selectmen's mailings.	Evaluate with BOH if resources are there
Revised		TBD			
303	Illicit Discharge Hotline	Town Administrator and Highway Operations Manager	Establish Hotline	Currently using existing phone lines. Info on website	Completed
Revised					
304	Illicit Discharge Bylaw	Planning Board	Bring By-Law before Town Meeting	Planning Board has enacted an in-house erosion control plan to deal with runoff at construction sites. Will continue to work on avenues in which to control runoff from existing sites.	No further action
Revised					
Revised					
Revised					

### 3a. Additions

305	Annual Catch Basin Cleaning - IDDE Screening (See also 602)	DPW/Contractor	CB's cleaned and screened, obvious irregularities reported to DPW for follow up	Completed	To Complete



#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
401 Revised	Construction Site E & SC Bylaw	Planning Board	Bylaw brought before Town Meeting	The Planning Board has created an Erosion Control plan based on EPA's sample plan. Need to discuss further action with Planning Board	No further action
402 Revised	Site Plan Review Amendment	Amendment Article brought before Town Meeting	Amendment Article brought before Town Meeting	The Planning Board has created an Erosion Control plan based on EPA's sample plan. Need to discuss further action with Planning Board	No further action
Revised					
Revised					
Revised					
Revised					
Revised					

#### 4a. Additions


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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
501	Stormwater Management Bylaw	Planning Board	Bylaw brought before Town Meeting	Erosion Control plan created, based on the EPA's sample control plan	No further action
Revised					
502	Site Plan Review Amendment	Planning Board	Amendment Article brought before Town Meeting	Erosion Control Plan created, based on EPA's sample control plan	No further action
Revised					
Revised					
Revised					
Revised					
Revised					

### 5a. Additions


## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 13
601	Annual Street Sweeping	Highway Foreman with DPW Director	Sweep all Town streets once per year	Complete	Annually
Revised					
602	Annual Catch Basin Cleanout				
Revised					
603	Environmental Assessment of Highway Maintenance Facility	Highway Operations Manager	Completed Assessment	Installed properly designed catch basin	No further action
Revised					
604	Highway/Water Depts. Good Housekeeping Education	<del>Highway Operations Manager and Water</del>	At least 1 training for all Water/highway Dept. Staff	Unknown if completed	Develop overall DPW staff training plan with good housekeeping component
Revised		DPW Director, Highway and Water Foremen	Good housekeeping component of overall DPW staff training plan		
605	Environmental Assessment of Municipal Facilities	<del>Town Administrator</del>	Completed Assessment	Unknown activity Year 15	Determine if additional work is needed
Revised		DPW Director			
606	Wastewater Management Plan	<del>Board of Selectmen</del>	Plan complete	Assessment of wastewater discharges in Town by outside Engineer.	Plan still under review by the Massachusetts Department of the
Revised					

Revised		Board of Selectmen/TA/DPW		Development of a long term plan to address future wastewater flows. Participation in regional discussions ongoing through OCPC and DEP	Environment. Significant investment made to develop a long term plan to address present and future wastewater discharges.
607	Drainage Assessment Brentwood Neighborhood	<del>Board of Selectmen/</del>	Evaluation of Phase II Continues	Project is understood to be 2 phases—Pond St that has been completed; followed by Brentwood which	Mapping and condition assessment of existing system planned.
		Board of Selectmen/TA/DPW			

### 6a. Additions

608	Snow Fighting Modifications	DPW	Operations consistent with plan	See Self Assessment section for details	Continue modification, use minimal sand, continue to utilize other alternatives, such as agricultural/carbohydrate based treatment additives.
609	Training and tracking systems, safety Program	DPW	Plan implementation	Modified EMS includes more detail on good housekeeping Safety walkthrough by Workers' Comp group includes assessment of exposure to activities that may impact stormwater runoff and good housekeeping	Continue to implement and evaluate adding additional DPW operation areas Develop overall DPW staff training plan with good housekeeping component
610	Evaluate Sewering Industrial Park Area	Board of Selectmen/TA/DPW	Progress on evaluation	Consultant delineated wetlands in town owned land that is possible site for onsite treatment system for Industrial Park	Soils test to see feasibility, amount and rate of discharge capacity

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

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

**7a. Additions**


**7b. WLA Assessment**

The Town's water department is currently monitoring subsurface migration of various pollutants in the area of test well sites on the Brockton/Avon Town Line.