

Municipality/Organization: FOXBOROUGH, MA

EPA NPDES Permit Number: MAR041115

MassDEP Transmittal Number: W-040607

Annual Report Number Year 15

& Reporting Period: April 1, 2017– March 31, 2018

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

Part I. General Information

Contact Person: William Keegan

Title: Town Manager

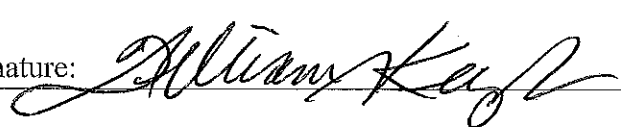
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Certification:

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 Keegan

Title: Town Manager

Date: April 30, 2018

Part II. Self-Assessment

The Town of Foxborough, MA has completed the required self-assessment and has determined that our municipality is in compliance with our permit conditions, except for the provisions shown below. The exceptions shown below refer to our Form BRP WM 08A and the BMP ID #'s in the Part D Storm Water Program Summary.

Part D.1 BMP ID #5 Educate Students & Adults. We have prepared a Household Hazardous Waste brochure that the School Department has handed out to all students in the Foxborough School system (preschool, K through 12) just prior to the April vacation. We also advertise the event in the local newspapers, CATV, hang a large banner on our building, post the event on our local message board, post the event on Town of Foxborough Webpage and Twitter account. The brochure is available at Town Hall and the Library. We continue to work with the Neponset River Watershed Association in continuation of their educational efforts in Town and standardizing educational material throughout the watershed.

Part D.2 BMP ID#12 The Neponset River Watershed Association has performed sampling and testing in Foxborough and this BMP should be evaluated and possibly revised to include their testing for adherence to the permit. Also, waiting for new NPDES permit with new requirements.

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 – Permit Year 16
1	Initial public awareness	S/W MGR. & Highway Super.	Newspaper article, CATV bulletin, stencil CB's.	Media articles completed. Launched Town Web Site. HHW Brochure & HHW Day Advertised on Web.	Educational material on new Permit requirements will be coordinated through Neponset River Watershed Association.
Revised				Worked closely with Neponset River to create new educational material that will be distributed on a regional basis.	
2	Form S/W Committee	S/W MGR.	Committee formed.	Local Committee formed; work on subdivision R&R's began.	Finalize local R&R's. Continue work with regional stormwater committees, included Neponset River WSA and SERSG.
Revised	<i>Form Local S/W Committee & Form Regional Committee</i>				
3	Formulate education plan	S/W Committee	All school students handed HHW brochure.	Household Hazardous Waste Brochure distributed to schools. Held annual HHW Day.	Educational material based on new permit.
Revised					
4	Design & distribute brochures	S/W Committee	Regional committee designed and mailed brochures to all residences, businesses, & P.O. mail boxes.	Hand out HHW brochure to all students.	Educational material based on new permit.
Revised					
5	Educate students & adults	S/W Committee	HHW brochures to all students. Brochure mailed to all residences, businesses, & P.O. boxes.	Begun planning a new stormwater program that will be coordinated with participation from the Neponset River Watershed Association.	Educational material based on new permit. Implement the new stormwater program in the schools.
Revised					
Revised					

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 – Permit Year 16
6 Revised	S/W Comm. Reviews permit & sets goals	S/W Comm.	Goals set	Waiting for new Permit to be released.	Will set goals once new permit is released.
7 Revised	S/W Comm. drafts S/W Bylaw	S/W Comm.	Bylaw for Illicit Discharge drafted.	Completed.	Review Bylaw, update as necessary.
8 Revised	Selectmen, Planning Bd, & ConComm review draft Bylaw	S/W Comm, Selectmen, Planning Bd., ConComm.	S/W Bylaw finalized	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
9 Revised	S/W Bylaw on Annual Town Meeting warrant	S/W Comm	Town Meeting approves S/W Bylaw	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
10 Revised	Residents assist w/ Bylaw enforcement, Stencil CB's	Residents	Discourage violations, scofflaws apprehended	Ongoing.	New catchbasins are stenciled with No Dumping.
Revised					

2a. Additions

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 – Permit Year 16
11 Revised	Map outfalls and MS4	Highway Dept / Consultant	Map of MS4	Full time GIS/Mapping Technician. Worked on Connectivity plan for drainage.	Continue updating mapping as new sources are constructed.
12 Revised	Train staff in outfall inspection	Highway Dept.	Develop detection plan	Neponset River Watershed did presentation for Town Officials for potential changes to new permit.	Update staff training for new NPDES permit to identify sampling and inspection requirements. Educational material based on new permit.
13 Revised	S/W Comm. drafts Illicit Discharge Bylaw	S/W Comm.	Town Meeting adopts Bylaw	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
14 Revised	Sump Pump & Downspout Connection Permit	S/W Comm.	Register & track potential pollution sources	Included in Illicit Discharge Bylaw.	Issue permits.
15 Revised	Enforcement of Bylaw	Town Staff	Discourage violations & map sump pumps & downspouts	Continue w/ enforcement	Continue w/ enforcement.
Revised					

3a. Additions

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 – Permit Year 16
16	S/W Comm., Planning Bd., ConComm. Set goals	S/W Comm., Planning Bd., ConComm. Set goals.	Goals set	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
Revised					
17	Formulate standards for erosion & sedimentation	S/W Comm., Planning Bd., ConComm.	Standards set	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
Revised					
18	Select BMP's	S/W Comm., Planning Bd., ConComm.	BMP's selected	Updated and approved at Town Meeting in May 2017 to include all requirements of the draft permit.	Review Bylaw, update as necessary.
Revised					
19	Draft regulations/revisions to Wetland & Subdiv. Regs.	S/W Comm., Planning Bd., ConComm.	Regulations/revisions adopted	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Revise Subdivision Rules & Regulations to include LID.
Revised					
20	Enforcement of regulations/revisions	S/W Comm., Planning Bd., ConComm.	Discourage violations, rectify violations	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Review Bylaw, update as necessary. Issue violation notices as necessary.
Revised					
Revised					

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 – Permit Year 16
21 Revised	Final inspection @ end of construction	Town inspector	Ensure project built to plans & regulations	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Review Bylaw, update as necessary.
22 Revised	Review BMP performance	Town Inspector	Long & short term maint. & performance identified	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Ongoing.
23 Revised	Propose improved BMP's to Planning Bd. & ConComm.	S/W Comm.	Improved BMP performance	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Ongoing.
24 Revised	Propose revisions to regulations as appropriate	S/W Comm.	Revisions adopted	Created Stormwater Regulation to support Stormwater Bylaw to meet the new Permit. The Regulation requires a final review and approval by Planning Board.	Ongoing.
25 Revised	Require deed restrictions	Planning Bd. & ConComm.	Require private long term maintenance	Review performance, ongoing.	Ongoing.
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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
26	Clean CB's regularly	Highway Dept.	Prevent debris from entering MS4	CB's cleaned throughout 2017.	Clean all CB's in 2018 and begin tracking sump depth.
Revised					
27	Sweep streets regularly	Highway Dept.	Prevent sand & debris from entering MS4	Streets swept in Spring and Fall 2017.	Sweep all streets in Spring and Fall 2018.
Revised					
28	Use construction site BMP's for road repairs	Highway Dept.	Prevent erosion & sediment runoff	Evaluate existing control and BMP's installed by developers. Install hoods on new catch basins.	Employ BMP's if economically and environmentally feasible
Revised					
29	Store & dispose of excavation byproduct properly	Highway Dept.	Prevent erosion & sediment runoff	Dispose of byproducts at recycling plants and recycle in-house	Continue with proper disposal
Revised					
30	Install BMP's to new and existing projects	Highway Dept.	Improve S/W quality	Install hoods on new catch basins	Continue with installing hoods
Revised					
Revised					

6a. Additions

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
31	Map MS4 outfalls	Highway Dept. & GPS Consultant	Updated map for MS4 outfalls	Outfalls have been mapped. Working on pipe network.	Complete comprehensive mapping of drainage system.
Revised					
32	Identify pollutants from MS4	Highway Dept. & Consultant	Test outfalls	Work done with Neponset River to test outfalls.	Sampling will be done based on the new permit.
Revised					
33	Identify source of pollutants into MS4	Highway Dept. & Consultant	Test Outfalls.	Neponset River tests outfalls throughout their watershed.	Inspections and dry weather testing will be conducted, based on the new permit.
Revised					
34	Eliminate source of pollutants in MS4	Highway Dept. & Consultant	Enforce Illicit Discharge Bylaw	Evaluate pollutant sources, determine method to eliminate. Written IDDE plan.	Continue to follow written IDDE plan.
Revised					
35	Evaluate BMP's/Install BMP's	Highway Dept. & Consultant	Track performance of BMP's & install BMP's if required	Installing hoods in CB's, evaluate pollutant sources.	Evaluate BMP's installed by developers and hoods.
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Original Subdivision Control Regulations, enforcement of the state's Wetland Protection Act by the Conservation Commission, and our General Bylaws have been effective in improving the quality of stormwater runoff.

Water quality testing is being performed by the Neponset River Watershed Association and may be economically and technically advantageous to use this data.

Streets were swept Town of Foxborough Staff in Spring and Fall of 2017.

Continued relationship with Neponset River Watershed Association. Worked collaboratively on educational material, outfall testing, and presenting information to town officials about the changes in the new permit.

New Stormwater Management Bylaw was approved at Town Meeting in May 2017.

Part IV. Summary of Information Collected and Analyzed

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, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$0
Total program expenditures since beginning of permit coverage	(\$)	\$0
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Exist. Staff

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	N
Shoreline cleaned since beginning of permit coverage	(mi.)	0
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	5-10%
▪ material collected **	(tons or gal)	By Vendor
School curricula implemented	(y/n)	Y

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					5/8/06
▪ Erosion & Sediment Control	X	X			
▪ Post-Development Stormwater Management	X	X			
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					5/8/06
▪ Erosion & Sediment Control	X	X			
▪ Post-Development Stormwater Management	X	X			

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	62
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	99+%
Mapping method(s)		
▪ Paper/Mylar	(%)	N/A
▪ CADD	(%)	N/A
▪ GIS	(%)	95%
Outfalls inspected/screened **	(# or %)	90%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	95%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	20
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	19%
% of population on septic systems	(%)	81%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100%
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	Once/Yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	Once/Yr
Qty of structures cleaned **	(#)	500
Qty. of storm drain cleaned **	(%, LF or mi.)	250 L.F.
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	15 Tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill & Compost

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$20,000/Yr
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	N.A.
• Disposal cost**	(\$)	\$2,000
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1 Owned
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vector **	(%)	0%

	(Preferred Units)	Response
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)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	50 Tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill & Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$50,000
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	\$100/Hr
• Disposal cost**	(\$)	\$5,000
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 Own
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	100%
• % Roads swept with vacuum sweepers **	%	0%

Reduction (since beginning of permit coverage) in application on public land of:
 (“N/A” = never used; “100%” = elimination)

▪ Fertilizers	(lbs. or %)	0%
▪ Herbicides	(lbs. or %)	100%
▪ Pesticides	(lbs. or %)	0%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

	(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	48% 0% 2% 0% 0% 0% 50%
Pre-wetting techniques utilized **	(y/n or %)	Y
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	0%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	0%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2010	(y/n)	Y

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	N
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N

