Municipality/Organization: **Town of Plainville**

EPA NPDES Permit Number:

MassDEP Transmittal Number: **W-040963**

Annual Report Number & Reporting Period: **Year 15**
April 1, 2017 – March 31, 2018

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

Part I. General Information

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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: Kelly Pawluczonek

Printed Name: Kelly Pawluczonek

Title: Health Agent-Board of Health

Date: April 26, 2018

Part II. Self-Assessment

During the past several years, the Town of Plainville made significant progress in its stormwater goals. From a regulatory standpoint, the Town has chosen to utilize the authority of the Board of Health to oversee stormwater and drainage in Plainville. This was done deliberately since the Board of Health has the authority to draft and implement regulations without the requirement of going to Town Meeting for approval. The end result has been that our regulations dealing with stormwater and drainage are among the most comprehensive in the Commonwealth. During the past reporting period, the Board has made the following changes to enhance protection of water resources and comply with the requirements of the MS4 permit.

1. Most recent addition for Stormwater monitoring: **ARTICLE 22: To see if the Town will vote to raise and appropriate, transfer from available funds, or borrow $50,000 or any other sum, to fund engineering services for the Department of Environmental Protection permits required by the National Pollution Discharge Elimination System, such funds to be expended under the direction of the Director of Public Works, or do or act in any manner relative thereto.** ***(Sponsor: Director of Public Works). We are awaiting additional guidance from the EPA and the State regarding the MS4 Permit.***
2. We are looking to revise the Town Stormwater regulations again into one comprehensive document that requires applicants to submit an Environmental Health Impact Report (EHIR) and receive an Environmental Health Impact Permit (EHIP) prior to the start of most construction that is likely to impact water resources.
3. Triggers for this permit have been made more restrictive, and are as follows:
   (a) The creation of 5 or more dwelling units on one or more contiguous parcels of land, whether in a subdivision or on an existing public or private roadway. The 2014 Plainville Assessors maps and assessment database shall be utilized to determine the number of new dwelling units created. The requirement to file for an EHIR is triggered when the fifth unit is created over that shown on the 2014 data, regardless of project phasing;
   (b) Any commercial or industrial development with a gross floor area exceeding 7,500 square feet
   (c) Any project with a design sewage flow of 2,200 gallons per day or greater, unless serviced by a municipal sanitary system;
   (d) Any multi-family development requiring a special permit from the Planning Board;
   (e) Any earth removal project exceeding 350 cubic yards of material per house lot, or 1,000 cubic yards of material per project, exclusive of material removed for foundation and utility excavation (note: stormwater basins designed in compliance with these regulations are considered utilities);
   (f) Any project that creates more than 5,000 square feet of impervious area, or that will disturb less than 5,000 square feet but is part of a common plan of development or sale that will ultimately disturb 5,000 square feet or more;
   (g) Any project that triggers an EPA NPDES permit by the disturbance of more than one acre of land, or that will disturb less than one acre but is part of a common plan of development or sale that will ultimately disturb one acre or more;
   (h) Any direct or indirect stormwater discharge to the municipal drainage system that is not in compliance with the NPDES General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems;

(i) Any direct or indirect non-stormwater discharge to the municipal drainage system, whether or not the outflow is regulated under the NPDES General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems, that is not an allowed discharge as listed below:

4. The regulations now regulate non-stormwater discharges also, and provide a mechanism for easier enforcement of discharges not allowed under the MS4 permit.
5. The Town has hired a Land Use Coordinator to assist in permitting for complex projects, and to act as an agent for both the Planning Board and Zoning Board of Appeals to ensure thorough review of development proposals.
6. The Board of Health, Planning Board and Conservation Commission are now utilizing one peer review engineer to provide a comprehensive report on all development that could impact stormwater runoff.
7. Municipal staff have attended three trainings in regards to the MS4 permitting. Several trainings were through the Southeastern Massachusetts Stormwater Collaborative (SEMSWC).
8. The Town of Plainville applied for an intern through the Massachusetts Department of Public Health in 2015, unfortunately we were denied the intern due to lack of public transportation within the town. We have also been in contact with the GIS department at Bridgewater State University, where students are available to provide GIS services to local towns. We are also working with a local volunteer to attempt to update the outlet mapping provided by the Norfolk County .Engineering Department into a more usable GIS format for on-going inspections and maintenance.

Through the efforts of the Board of Health and its agent in concert with other staff, Plainville has and continues to monitor and regulate stormwater impacts in compliance with this permit.

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Design and distribute brochures	S/W Manager	Raise Public awareness	Brochures continue to be available to the public at various locations	Continue outreach and information distribution including the use of the Town's Website
Revised					
	Stencil Storm Drains	Health Agent	Identify MS4	Some re-stenciling of faded storm drain warnings	Continue to re-stencil faded storm drains
Revised					
	Educate Students	S/W Educators & Teachers	Classroom Presentations	Educational presentations have been made	Continue educational presentations in classrooms
Revised					
Revised					
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Form Technical Committee (T.C.)	S/W Manager	T.C. provides technical assistance	The Town maintains an "environmental staff" and has incorporated them into review of permits involving storm water. Due to budget cuts we have increasingly relied on review consultants on new projects.	Continue internal review, and now external review consultants of new permits which affect stormwater. Additionally, Norfolk County Engineering staff is being made available to the Town.
Revised					
	T.C. Reviews General Permit	T.C.	S/W Goals Identified	In house staff now charged with reviewing appropriate aspects of the Permit	Staff is now the Technical Committee and external review consultants to carry out goal
Revised					
	T.C. Develops Strategy	S/W Manager	Changes Made to Local Regulations	Board of health incorporated BMP's into applicable drainage regulations for subdivisions and commercial development	Continuance of regulation review for efficacy and potential regulation changes
Revised					
	Residents Help Enforce Illicit Discharge Regulations	Health Agent	Residents Report Violations	All reports are logged and investigated for action by Health Agent	Continue current process and outreach to community to encourage additional citizen reporting
Revised					
	Review of updated stormwater regulations	Board of Health	Changes made to local regulations	The Board of Health has updated stormwater regulations	
Revised					
	Stormwater Intern	Board of Health	Identifications of all stormwater markers in town by GPS, example storm drains and all catch basins	The Board of Health is in the process of hiring a stormwater intern	GPS location of all stormwater related markers
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Map Outfalls and MS4	Highway Superintendent	Map MS4	Utilization of Outfall Map developed by Norfolk County Engineers to identify and initiate further steps in controlling illicit discharges to water bodies	Possible periodic testing dependent on new permit requirements
Revised					
	Draft Illicit Discharge By-law	Board of Health	Town Meeting adopts by-law	Rather than bylaws, the Board of Health has initiated regulations dealing with stormwater. Incorporated the Board of Health's regulation as they pertain to stormwater into the Town's "General Code".	Continual review and applicability of those Regulations relative to Stormwater in concert with Conservation Commission and Planning Board review.
Revised			Board of Health, under its own authority, drafts applicable regulations		
	Enforcement of Bylaw	Board of Health and Health Agent	Discourage Violations	Board of Health and Health Agent utilize ticketing system to fine violators	Continuance of enforcement of existing regulations
Revised					
Revised					
Revised					
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
		Board of Health		Proposed Construction projects now required to undergo an Environmental Health Impact Review through the Board of Health.	Continue to review regulation language and determine efficacy
Revised	Board of Health has drafted and implemented regulations	Board of Health, in concert with Con Com & Planning Board	Board of Health Drafts Regulations		
	Enforcement of Bylaw	Con Com, Planning Board Board of Health	Requirement of all Construction Activity	Enforcement of applicable stormwater regulations enhanced by the hiring of full time health agent and part time conservation agent	Board of Health Agent to actively investigate violations and develop a prospective inspection program.
Revised	Enforcement of Regulations	Board of Health in concert with Con Com & Planning Board			
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Propose Regulation Changes	Con Com, Planning Board Board of Health	Town adopts bylaw changes Boards amend their regulations	Regulations determined to be more effective and easier to amend than bylaw changes.	Regulation review and amendments as necessary ongoing and incorporate those into Town's "General Code"
Revised		Board of Health now lead agency	Enforcement through Regulations.		
	Review S/W impacts on new projects	Con Com, Planning Board Board of Health	Project's S/W mgt plan must meet applicable bylaws and regulations	Project review has and continues to be part of the permitting process for new construction. Projects are now required to submit to an Environmental Health Impact Review through the Board of Health. 102 such reviews have been completed since the inception of this permit.	Process continues and investigation as to whether new review tools and regulations are necessary
Revised					
	Require Deed Restrictions	Con Com, Planning Board Board of Health	Town ensures long term maintenance of S/W Mgt goals	Town requires through its Board of Health and Planning Board regulations that storm ceptors or similar drainage structure be defined and maintained by deed. Con com requires that S/W mgmt plan be recorded with deed	Continue monitoring of actual maintenance programs.
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Clean catch basins regularly	Highway Dept	Prevent debris from entering MS4	All catch basins are cleaned annually	Continue to clean catch basins
Revised					
	Sweep Streets regularly	Highway Department	Prevent sand and debris from entering MS4	Concerted effort to limit amounts of sand utilized during storms. All streets were swept after snow season	Continue to sweep streets
Revised					
	Use E&S controls for road repairs	Highway Dept	Prevent Erosion into MS4	Erosion controls are used as necessary by Highway Department and required of private contractors as necessary	Continue to enforce erosion controls and establishment of road opening bylaw which further defines requirements
Revised					
	Cover outside drums and salt	Highway Dept	Prevent leachate from entering MS4	All salt piles are now stored under cover	Continue storage
Revised					
	Litter/scattered trash pick-up	Health Agent / Highway dept.		Utilizing Trial Court Community Service defendants, the Health Agent has supervised the removal of litter and debris from water bodies governed under this permit.	Continue to utilize Trial Court Community Service defendants, under Health Agent supervision to remove litter and debris from water bodies governed under this permit.
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Does MS4 discharge into impaired body?	Highway Supt	Show MS4 outfalls into Category 5's on map	All outfalls potentially effecting Category 5's have been located by Norfolk County Engineers and delineated on Map.	Monitor outfalls during and after storm events
Revised					
	Identify pollutants discharging from MS4 into Category 5's	Highway Supt	Isolate pollutants		
Revised					
	Search for source of Pollutant	Highway Supt	Assign responsibility for correction	Search and monitoring ongoing	Continue the monitoring
Revised		Health Agent			
	Reduce Pollutants discharging from MS4 into Category 5's	Health Agent	Enforce illicit discharge bylaw	Progress Ongoing	Regulations through Board of Health
Revised					
Revised					
Revised					

7a. Additions

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, 2010 through March 31, 2011)

Programmatic

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

Education, Involvement, and Training

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

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

Mapping and Illicit Discharges

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

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	
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 (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

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

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or per basin contract rate **	($/hr or $ per basin)	
• Disposal cost**	($)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	
• Disposal cost**	($)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

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

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

	(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	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

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