

**Municipality/Organization:** City of Brockton, MA  
**EPA NPDES Permit Number:** MAR041098  
**MassDEP Transmittal Number:** W-X280330  
**Annual Report Number & Reporting Period:** Year 15  
April 1, 2017 – March 31, 2018

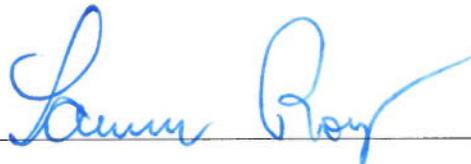
## NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2018)

### Part I. General Information

Contact Person: Lawrence Rowley Title: DPW Commissioner  
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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: Lawrence Rowley

Title: DPW Commissioner, City of Brockton

Date: 4/30/18



## **Part II. Self-Assessment**

The City of Brockton has completed the required self-assessment and has determined that the municipality is in compliance with all permit conditions.

### 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
1-1 Revised	Stencil Catch Basins	Highway Department	Catch Basins Stenciled	The highway department placed decals at catch basins.	Continue to place decals at catch basins.
1-2 Revised	Household Hazardous Waste Collection Day	Department of Public Works	One Collection Day Held per Year	Household Hazardous Waste Collection Day was held during fall 2017.	Hold a Household Hazardous Waste Collection Day during fall 2018.
1-3 (same as 3-7) Revised	Inserts in Water and Sewer Bills	Water and Sewer Department	Bill Stuffers Mailed in Years 2 (2004) and Year 4 (2006)	Bill stuffers were provided in permit Year 1 and Year 3. Bill stuffers were also provided in Year 12.	Conform with new requirements in upcoming MS4 permit.
1-4 Revised	Resident Hotline	Operations	Hotline operated 24 hours per day, 365 days per year	Hotline operated at Water and Sewer Department.	Continue to operate hotline.
1-5 Revised	Pooper Scooper Ordinance	City Clerk	Ordinance passed, enforced	Ordinance was passed prior to permit term.	Continue enforcing Pooper Scooper Ordinance.
1-6 Revised	Newspaper Article	Department of Public Works	One article published every three years	An informational stormwater mailer was included in February 2015 utility bills.	Conform with new public education and outreach requirements in upcoming MS4 permit.

#### 1a. Additions

No additions to Control Measure 1.

## 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
2-1	Comply with State public notification guidelines at MGL Chapter 39 Section 23B	City Clerk	Notices posted according to state guidelines	All notices have been posted according to state guidelines.	Conform with new requirements in upcoming MS4 permit.
Revised					
2-2	Public Review for Stormwater Management Plan	Department of Public Works	Review Period Held	None.	Conform with new requirements in upcoming MS4 permit
Revised					

### 2a. Additions

No additions to Control Measure 2.

### 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
3-1 Revised	Illicit Connection Ordinance	City Council	Ordinances passed.	A draft ordinance and stormwater manual have been developed and are in the process of being approved by City Council.	Pass ordinance.
3-2 Revised	Dry Weather Screening	Highway Department	Outfalls screened in 2002 and 2006.	Dry weather screening completed in 2002 and 2006.	Conform with new requirements in upcoming MS4 permit.
3-3 Revised	Map Stormwater Outfalls	Engineering Department	Map created	Map completed in 2002.	Conform with new requirements in upcoming MS4 permit.
3-4 Revised	Sewer GIS	Sewer Department	GIS created	GIS of sewers completed in 1999.	None
3-5 Revised	Storm Drain GIS	Engineering Department	GIS created	GIS of drainage system completed in 2004.	Conform with new requirements in upcoming MS4 permit.
3-6 Revised	Identify and Remove Non-Stormwater Discharges to MS4	Engineering Department	Prioritized List of Outfalls by end of Permit year 1; field investigations completed, illicit connections located and removed within three years of dry weather screening.	Worked with DEP staff to address potential cross connections.	Conform with new requirements in upcoming MS4 permit.
3-7 (Same and 1-3)	Bill Stuffers in Water and Sewer Bills	Water and Sewer Departments	Illicit Connection Bill Stuffer Created in Permit Year 2 (2004)	None.	Conform with new requirements in upcoming MS4 permit.

#### 3a. Additions

No additions to Control Measure 3.

#### 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
4-1	Construction Site Erosion and Sediment Control Ordinance	Planning Board, Planning Department and Engineering Department	Ordinance developed and presented to City Council, Enforcement actions taken after ordinance is passed.	A draft ordinance and stormwater manual have been developed and are in the process of being approved by City Council.	Pass ordinance.
Revised					
4-2	Site Plan Reviews	Engineering Department	Number of site plans reviewed	Site plans have been reviewed as needed.	Continue reviewing site plans and conform with new requirements in the upcoming MS4 permit.
Revised					
4-3	Consideration of Public Input	Department of Public Works	Review periods held, signs posted at construction sites	None	Conform with new requirements in upcoming MS4 permit.
Revised					
4-4	Inspection of erosion and sediment controls	Engineering Department	Number of Inspections Performed	Inspections were performed at all sites thought to be in non-compliance.	Continue inspecting sites thought to be in non-compliance. Conform with new requirements in the upcoming MS4 permit.
Revised					
Revised					
Revised					

#### 4a. Additions

No additions to Control Measure 4.

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

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 15</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities</b>
5-1	Develop a bylaw to apply Standards 2, 3, 4, 7, and 9 of the MA Stormwater Policy to the entire City.	City Solicitor	Ordinance Developed and Presented to City Council	A draft ordinance and stormwater manual have been developed and are in the process of being approved by City Council.	Pass ordinance.
Revised					
5-2	Specify a stormwater BMP manual	Planning Board and Engineering	BMP Manual Selected	None	Conform with new requirements in upcoming MS4 permit.
Revised					
5-3	Ordinance for the long-term maintenance of BMPs	Planning Board, Engineering Department and City Solicitor	Ordinance Developed and Presented to City Council	A draft ordinance and stormwater manual have been developed and are in the process of being approved by City Council.	Pass ordinance.
Revised					

**5a. Additions**

There are no additions to Control Measure 5.

## 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
6-1	Identify Sensitive Receptors	Craig Young and Howard Newton	List of sensitive receptors developed in permit year 2, staff training completed	List of sensitive receptors completed.	None.
Revised					
6-2	Street Sweeping	Highway Department	All streets swept once per year	All streets swept at least once in 2017.	Conform with new requirements in upcoming MS4 permit.
Revised					
6-3	Tree Planting Program	Highway Department, City Planner	Number of Trees Planted	Existing tree planting program performed.	Continue tree planting program.
Revised					
6-4	Minimizing Effects from Road Salts	Highway Department	Spreaders Calibrated Every Year	Salt spreaders were calibrated and salt was stored inside.	Calibrate salt spreaders and continue storing salt inside. Winter road maintenance procedures will be considered under the upcoming MS4 Permit.
Revised					
6-5	Vehicle Washing	Department of Public Works	Vehicles Washed Correctly	Vehicle washing protocol was followed. Sander trucks were rinsed outside and other vehicles were washed inside the DPW garage where the wash water drains to the sewer.	Continue washing vehicles using the existing protocol.
Revised					
6-6	Vehicle Maintenance	Department of Public Works	Employee Training Conducted in Permit Year 1, Materials Inventory Created in Permit Year 2	Created a hazardous material inventory.	None.
Revised					
6-7	Storm Drain Maintenance	Highway Department	All catch basins cleaned every 2 years.	Catch basins cleaned.	Conform with new requirements in the 2016 MS4 Permit.

Revised					
6-8	Park and Landscape Maintenance	Parks Department	Staff Training Completed in Permit Year 2, fertilizer use minimized thereafter	City Staff uses fertilizer on a minimal basis.	Continue to use fertilizer on a minimal basis. Conform with new requirements in the 2016 MS4 Permit.
Revised					
6-9	Illegal Dumping Control	Department of Public Works	Inventory areas in permit year 1, signs posted and staff trained in year 2 and records maintained thereafter	The Highway Department has developed a list of illegal dumping areas, posted signs and has a protocol for reporting illegal dumping.	Continue to perform the illegal dump control program.
Revised					
6-10	River Bank Trash Clean-up	Highway Department	Clean-up conducted throughout the year	Clean-up crews continued working on river clean up, schedule permitting.	Continue the river clean up project.
Revised					
6-11	Best Management Practices for D.W. Field Park and Municipal Golf Course	Department of Public Works, Parks Department, Golf Course Personnel	Conduct study of potential BMPs in Year 2. Implement study results thereafter.	None	Conform with new requirements in the 2016 MS4 Permit.
Revised					

**6a. Additions**

There are no additions for Control Measure 6.

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

Not Applicable

**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, 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	(%)	
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### 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 vacor **	(%)	
	(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 <sub>2</sub> % MgCl <sub>2</sub> % 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	