

**Municipality/Organization:** Town of Seekonk

**EPA NPDES Permit Number:** MAR041156

**MassDEP Transmittal Number:** \_\_\_\_\_

**Annual Report Number** Year 13  
**& Reporting Period:** April 1, 2016 – March 31, 2017

## NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2017)

### Part I. General Information

**Contact Person:** David Cabral, P.E. **Title:** Public Works Superintendent

**Telephone #:** 508-336-3305 **Email:** dcabral@seekonk-ma.gov

**Mailing Address:** 871 Taunton Avenue, Seekonk, MA 02771

#### 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 Cabral

**Title:** Public Works Superintendent

**Date:** 4/30/18

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

The Town of Seekonk has completed the required self-assessment and determined that our municipality is in compliance with the permit conditions. The Town has either implemented ongoing control measures or achieved the measurable goals detailed in Part III of this permit.

Since the implementation of our stormwater by-laws we have corrected and resolved many issues through Best Management Practices (BMPs). These accomplishments were attainable through a substantial effort of our Stormwater Advisory Committee (SWAC). Due to personnel changeover, the SWAC has met infrequently with many of the duties being performed by the Town's Technical Review Committee (TRC). The TRC continues to meet to review implemented BMPs, practices and progress.

The Town continues to utilize a proactive approach to administer our Stormwater Management Program. We have reduced pollutants by using a multitude of resources and a variety of in-house practices. The Town has made significant progress in mapping outfalls and drainage systems as well screening for, detecting, and eliminating illicit discharges. Our Bylaws, in conjunction with thorough site inspections have proven to be a valuable tool in the implementation of effective stormwater management at sites in both the construction and post-construction phases. The Town also operates a number of Pollution Prevention BMPs including a street sweeping program, catch basin cleaning, and training for municipal employees.

The fulfillment of the permit requirements has been challenging, but we believe our efforts have resolved issues with the existing stormwater management system and improved water quality in Seekonk. We continue to partner with public and private entities in attaining our goals.

**Part III. Summary of Minimum Control Measures**

**1. Public Education and Outreach**

<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 13 (Reliance on non-municipal partners indicated, if any)</b>	<b>Planned Activities</b>
1A	Distribute & Post Nonpoint Source Pollution Posters	DPW	Post in all Municipal Buildings	Continue posting	Update information and re-post as necessary
Revised					Check posters annually
1B	Air stormwater message on local cable channel	DPW	Posted once per month Continuing	Continue posting	Update information as needed
Revised					
1C	Add stormwater info to the Town's website	DPW	Posted to the Town's website	Continue posting	Update information as needed
Revised					
1D	Develop and distribute waste oil brochures	DPW	Distributed to all affected local business	Waste oil brochures were not mailed to businesses in Year 13.	Update brochure and list of affected businesses for future mailing
Revised					
Revised					
Revised					

**1a. Additions - Outside of the permit scope**

	Stormwater Public Informational brochures	DPW/Recycling Coordinator	Distribute Information Earth Day, America Recycles Day	Earth Day - April 15 <sup>th</sup> , 2017 America Recycles Day – November 15 <sup>th</sup> , 2016	Continue to distribute in future years

**2. Public Involvement and Participation**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2A	Develop Adopt-A-Drain Program	DPW SWAC	Residents to maintain catch basin adjacent to their property	Catch basins are cleared of debris by residents. The cleaning of these basins has resulted in fewer pollutants entering into the stormwater system and overall improvements to the effectiveness of the system.  There were 27 participants in the program for Year 13 (2016-2017)	DPW to inspect drains during rain events to ensure compliance with program. A free roll of Seekonk trash bags is offered to participants following the maintenance / inspection of a catch basin for one year.
Revised					
2B	Hazardous Waste Collection - Earth Day	DPW - BOH	Hold Annual Earth Day and Hazardous Waste Day	Volunteers collecting roadside trash and debris  Earth Day and Hazardous Waste Collection Day were held on April 15 <sup>th</sup> , 2017.  There were 68 participants in Earth Day Litter Patrol and 91 participants in Hazardous Waste Collection Day.	Continue to encourage public involvement and offer waste collection opportunities (fluorescent bulbs, batteries, propane tanks, etc.)
Revised					
2C	Waste Oil Collection Anti-Freeze collection	DPW	Collect waste oil and antifreeze daily	Oil is collected at the DPW garage Residents are encouraged to drop off waste oil and antifreeze at no charge.	Continue with current practices
Revised					
2D	Town Outreach meetings	DPW/ConCom Planning Board	Hold public outreach meetings quarterly	Held several meetings with no participation from the public	Due to a lack of public interest and staffing changes these Public

Revised					Meetings have been put on hold  Due to staffing changes the SWAC no longer meets. The TRC will reevaluate ways to encourage public involvement in these meeting.
2E	T-Shirt Contest	DPW/Recycling Coordinator	Earth Day T-Shirt design contest	Due to a lack of interest from the schools the Contest is no longer held	T-shirt designs are developed by SWAC or Recycling Committee members
Revised					
Revised					

**2a. Additions**

	Form Stormwater Advisory Committee	DPW	Hold Semi-Annual Meetings Additional meetings held	The Stormwater Advisory committee was formed and included the following members- DPW Supt., Conservation Agent, Town Planner, Building Official and Board of Health Agent.  Due to changes in staff, SWAC meetings have not been held over the past year. The Seekonk Technical Review Committee has assumed many of the functions that the SWAC was responsible for. The Seekonk TRC is responsible for review of all bylaws and development / redevelopment.	Review of the existing stormwater practices is now the responsibility of the Department of Public Works and the TRC.  The Town plans to begin holding SWAC meetings again to review stormwater practices and discuss the success and shortcomings of the Town's Stormwater Management Program to date.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3A	Map outfalls and drainage system	DPW/ConCom Planning Board	Mapping of entire storm drain conveyance system	An engineering company was hired to GPS point locate structures. The Town has started the process of combining these GPS locations with its GIS layer.	The Town Plans to continue to locate new structures. The Town is looking into hiring a consultant to determine DMH inverts and finalize map of pipe structures. To simplify this process the Town is developing a methodology and nomenclature for locating, surveying, and describing structures.
Revised					
3B	Review existing bylaws and regulations	SWAC	Determine if existing bylaws & regulations meet EPA requirements	Recommend changes to existing by-law and regulations	In the absence of the SWAC the TRC will continue to review existing by-laws and regulations.
Revised					
3C	Develop Illicit Discharge Detection and Elimination Plan	DPW	Make Recommendations proposed for plan	The Illicit Discharge Detection and Elimination plan has been developed by DPW	The DPW will continue to review the bylaw and recommend the changes necessary to effectively aid in the identification and elimination of illicit discharges.
Revised					
3D	Develop bylaw for Illicit Discharge Detection + Elimination	DPW	Recommendations proposed for bylaw	The Illicit Discharge Detection bylaw has been developed by DPW	The DPW will continue to review the bylaw and recommend the changes necessary to effectively aid in the identification and elimination of illicit discharges.
Revised					
3E	Present bylaw for adoption at Town meeting	DPW	Bylaw presented and adopted at Town meeting	The Bylaw was adopted as of February 27, 2017	We have eliminated numerous illicit discharges since the inception of the bylaw. We continue to locate and eliminate illicit discharges
Revised					
Revised					

**3a. Additions**

	Review requirements of new permit.	SWAC	Evaluate scope of new permit requirements	Determine work to be performed by the SWAC/TRC or outsourced to Engineers	Complete NOI for new permit & identify separate drainage systems
	Identify separate storm drain systems	DPW ConCom Planning Board	Inventory separate systems to outfalls	85% completed to date	The DPW, Conservation Agent, and Planning Board Continue to identify separate storm drain systems and will continue working towards 100% identification

**4. Construction Site Stormwater Runoff Control**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4A	Review current site inspection practices	ConCom Planning Board	Determine if current practices meet EPA requirements	Review of current site inspection practices has been completed and it has been determined that they meet EPA requirements.	Continue current practices and continue to review practices to ensure they are in line with EPA requirements / goals
Revised					
4B	Develop/modify site inspection program	DPW/ConCom Planning Board	Recommendations to modify existing program	Incorporate changes into existing program and inspection practices	Continue to research existing practices in other communities and ways to improve the inspection program.
Revised					
4C	Review existing bylaw and regulations	ConCom Planning Board	Determine if existing bylaw meets EPA requirements	The TRC has submitted its recommended changes to the existing bylaws.	Continue to review bylaws.
Revised					
4D	Develop/modify bylaw for construction site runoff	ConCom Planning Board	Propose recommendations to existing bylaw	Bylaw developed and adopted by SWAC/TRC	The construction site runoff bylaw has been reviewed and adopted at Town Meeting. The TRC / SWAC will continue to review and aid in the enforcement of the bylaw.
Revised					
4E	Present bylaw for adoption at Town Meeting	ConCom Planning	Bylaw developed and approved at Town Meeting and by the Attorney General	The Bylaw was adopted as of February 27, 2017	Incorporate new bylaw and regulations into plan review process and inspection practices

**4a. Additions - Outside of the permit scope**

	Plan reviews and construction site inspections	Planning Board DPW	Assure compliance with new bylaw	Consultant hired to perform site plan reviews and inspect construction activity	Continue current practices
	Training	DPW ConCom Planning Board	Increase knowledge of inspection procedures	Attend erosion and sedimentation control workshop	Incorporate training into inspection practices

**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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5A	Review existing site inspection practices	ConCom Planning Board Technical Review Committee (TRC)	Determine if existing practices meet EPA requirements	Review of existing practices completed	Continue with current practices
Revised					
5B	Develop/modify site inspection practices and procedures	ConCom Planning Board TRC	Recommendations made to modify existing practices	Propose recommendations to Planning Board to incorporate into current practices and procedures	Recommendations have been incorporated into inspection practices by the Planning Board
Revised					
5C	Review existing bylaw and regulations	ConCom Planning Board TRC	Determine if existing bylaw meets EPA requirements	Review of existing bylaw and regulations completed	Planning Board has adopted modifications to bylaw and regulations
Revised					
5D	Develop/modify bylaw and regulations for Post Construction Site Runoff	ConCom Planning Board TRC	Propose changes to existing bylaw and regulations	Bylaw and regulations have been developed and adopted by SWAC	
Revised					



5E	Present bylaw for action at Town Meeting	ConCom Planning Board TRC	Bylaw presented and adopted at Town Meeting	Bylaw adopted by Planning Board and incorporated into planning regulations	Incorporate new bylaw and regulations into plan review process and inspection practices
Revised					
Revised					

**5a. Additions – Outside of the permit scope**

	Plan Reviews and site construction inspections	Planning Board	Assure compliance with new bylaw	Consultant hired to perform site plan reviews and inspect construction activity	Continue current practices

**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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6A	Street sweeping program	DPW	Sweep all streets once annually sweep main and secondary roads twice or more	We have been able to complete our street sweeping program as implemented	Continue with existing practices. Street sweeping begins in April and continues through November.
Revised					
6B	Catch basin cleaning program	DPW	Clean all catch basins annually	We have been able to clean all our catch basins annually. Basins are cleaned with a clamshell truck or vacuum trucks (as needed for clogged/blocked basins).	Continue with current practices
Revised					
6C	Perform site visits and inspect practices at municipal facilities	DPW	Target all applicable municipal facilities	The Town continues to	Complete budget review for implementation of BMPs
Revised					

6D	Train municipal employees at facilities	DPW	Target employees at each facility	Some completed – ongoing	Future training opportunities
Revised					
6E	Perform follow up inspections at each targeted facility	DPW	Implementation of corrective measures and BMPs	Some completed – continuing	Continue to review current practices and implement BMPs to insure compliance with stormwater regulations
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7A	Water quality management project for the Runnins River	SWAC	Provide water samplings and report	Water samplings completed final report completed and submitted	Water samplings are complete, the Town Plans to continue working with Save-the-Bay to improve the health and Water Quality of Runnins River
Revised					
7B	Illicit discharge detection and elimination program	DPW	Implement BMPs reference 3C, 3D & 3E	Elimination of illicit discharges	Continue to identify and eliminate illicit discharges
Revised					
7C	Consider deterring waterfowl from the Grist Mill Pond	SWAC	Partner with Grist Mill Tavern owner	Signage has been installed and has been successful in deterring the public from feeding waterfowl	Continue to monitor
Revised					

7D	Municipal Good Housekeeping	DPW	Municipal audit completed, BMPs identified	Implementation of BMPs, reference 6A, 6B & 6C	Continue to review current practices and implement BMPs to ensure compliance with stormwater regulations
Revised					
Revised					
Revised					

**7a. Additions**


**7b. WLA Assessment**

NA

**Part IV. Summary of Information Collected and Analyzed**

In previous years the Town of Seekonk has collected data on E. Coli at various locations along Runnins River, Ten Mile River, and other waterbodies. The Town has also kept records on the installation, operation, and maintenance of Stormwater BMPs on private developments. The Conservation Agent continues to research opportunities for additional funding to conduct more water quality testing / sampling.

**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, 2014 through March 31, 2015)

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$25,000
Total program expenditures since beginning of permit coverage	(\$)	\$325,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		GF

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	Unknown
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	No
Shoreline cleaned since beginning of permit coverage	(mi.)	0
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	3
▪ community participation **	(# or %)	159*
▪ material collected **	(tons or gal)	0.1 tons (206 lbs)***
School curricula implemented	(y/n)	Unknown

\*There were 68 participants in Hazardous Waste Collection Day and 91 participants in Earth Day Litter Patrol

\*\*\*The materials collected vary but include: 206 lbs of fluorescent tubes, aerosols, pesticides, non-processable paints, processable paints, and consolidated solids.

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

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	85%
Estimated or actual number of outfalls	(#)	220
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	35%
Mapping method(s)		
▪ Paper/Mylar	(%)	99%
▪ CADD	(%)	0%
▪ GIS	(%)	85%
Outfalls inspected/screened **	(# or %)	30%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	95%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	46
Illicit connections removed **	(# ); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	35
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

**Construction**

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	5
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	1-2 times daily
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	2

**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)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	NA
Qty. of storm drain cleaned **	(%, LF or mi.)	200 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	NA
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
<b>Basin Cleaning Costs</b>		
• Annual budget/expenditure (labor & equipment)**	(\$)	NA
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$10.70/hr
• Disposal cost**	(\$)	\$0

Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	1 (Leased)
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vactor **	(%)	NA*

\*4 Structures were cleaned with a vactor, the total cost of these cleaning was \$1,395.00

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2-3
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	300 Tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$30,000
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	NA
• Disposal cost**	(\$)	\$0
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	1 Leased
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	5%
• % Roads swept with vacuum sweepers **	%	95%

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	50%
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	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	95%  5%
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/l <sub>n</sub> mi. or %)	25% Reduced
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l <sub>n</sub> mi. or %)	98% Reduced
% 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 2008	(y/n)	100%

**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	Y
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N