

Municipality/Organization: Town of Raynham, MA

EPA NPDES Permit Number: MAR 041151

MassDEP Transmittal Number: W-

Annual Report Number **Year 14**
& Reporting Period: **April 1, 2016 – March 31, 2017**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

Part I. General Information

Contact Person: Randall A. Buckner

Title: Town Administrator

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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: Randall A. Buckner

Title: Town Administrator

Date: 5/1/2014

Part II. Self-Assessment

The Town of Raynham, MA has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions except for the following provisions:

Section 1.1 Public Outreach –No classroom presentations made (no conservation agent to conduct them at this time)

Section 2.2 –Illicit Discharge Detection & Elimination By-law has not been accepted as a Town by-law as of this date.. However, the Town has continued to enforce health regulations preventing illegal discharges to the Town’s stormwater system. Approximately 90% of the town’s residents are already sewerage or have town sewer available.

Part III. Summary of Minimum Control Measures

STORMWATER REPORT

Part III Summary of Minimum Control Measures

1. Public Education and Outreach

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit Year 14</u>
1.1	Introduce topic to students as appropriate	Public Education task force	Classroom presentations	No presentations made this year.
1.2	Design & Distribute Brochure	Town Administrator	Raise public awareness pollution of stormwater	Completed in year 2
1.3	Stencil storm drains	Highway Department/ Highway Superintendent	Identify MS4 for public	Completed in year 4

1.4	Create Public Education Task Force	Raynham Board of Selectmen/Town Administrator	Board of Selectmen appoints Task Force	Completed in year 1
1.5.	Create awareness with education incentives	North & Center Water District Supts.	Create scholarship fund	Small scholarship fund created

2. Public Involvement and Participation

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit Year 14</u>
2.1	Form Technical Comm.	Town Administrator/ Board of Selectmen	Board of Selectmen vote to form committee	Completed in year 1
2.2	Tech.Comm.drafts by-law	Technical Committee	Illicit Discharge and E & S bylaws presented to Town	Draft By-Law ready
2.3	Use media to educate and motivate residents to comply	Technical Committee employees of town agencies	Positive press coverage of storm water meeting activities	Occasional announcements made at Selectmen/Health and Conservation meetings
2.4	Solicit residents to report discharges	Task Force	Residents report	<u>No</u> incidents reported this year

2.5	Provide public notice of all meetings/hearings	Technical Committee	Public attends Meeting & Hearings	No meetings held this year.
<u>2A Additions</u>				
2.6	HHW Collection	Highway Supt	Hold one Town-wide event annually	Town-wide event held in June, 2016 (by Clean Harbors) 186 residents participated

3. Illicit Discharge Detection and Elimination

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit year 14</u>
3.1	Map MS4 Outfalls	Highway & Planning Dept/Highway & Town Planner	Produce Maps of MS4	Completed in Year 7
3.2	Dry weather screening during routine catch basin cleaning	Highway Dept. Superintendent/Employees	Monitor MS4	Highway Dept. checked catch basins for dry weather flows (none found)
3.3	Inspections during routine detention/retention basin mowing	Highway Supt.	Monitor MS4	Highway Dept. inspected detention basins for dry weather flows (none found)
3.4	Illicit Discharge By Law enforcement.	Highway Supt.	Violations caught or discouraged	No illegal discharge events

3.5	Prvd.Insp. & tech. assist. to & ZBA Boards	Highway & Planning Board Dept/Hiway & P.B	Develop & enforce Management practices	On-going
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4. Construction Site Stormwater Runoff Control

<u>BMP IC#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal (s) Permit Year 14</u>
4.1	Devlp.by-law for construction along accepted ways	BOS & Hiway Dept.Town Adm& Hiway Supt.	Required permit & cash bond before excav. along town ways	Completed in Year 3. Forty (40) such permits were issued during the year.
4.2	Conduct subdivision review & inspections	Hiway & Planning Dept/Hiway Supt.& Planning Board	Enforce const. of aprv.plans through subdivision cont.	Two subdivision reviewed for compliance during construction (Bassett Knoll & Whippoorwill)
4.3	Develp.P.B.& ZBA to address MS4 issues	Highway & Planning Dept./Hiway & P.B.Agents	Provide regulations addressing MS4 issues	Completed
4.4	Enforce by-laws & PB reg.	Highway & Planning Hiway Supt & P.B. Regs	Encourage proper management of MS4 issues	All new subdivisions and sites of greater than 1 acre were inspected for proper MS4

4.5	Conduct routine & impromptu inspections during construction	Highway Dept / Highway Supt. or designated agent	Discourage MS4 violations & encourage best Mgt.Practices	Highway employees conducted scheduled & unscheduled inspec.of all construction sites requiring stormwater control
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5. Post-Construction Stormwater Management in New Development and Redevelopment

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept/Person</u>	<u>Measurable Goals</u>	<u>Progress on Goal (s) Permit Year 14</u>
5.1	Monitor,review & assess compliance with MS4 regs.	Hwy & Planning Board Depts/Hwy Supt & P.B. agents	Use bond surety to insure compliance with regulations	Fees for maintenance of MS4 in new developments collected-two subdivisions
5.2	Periodic assessment of BMP's for MS4	Hiway & Planning Board Depts/Hiway Supt. & P.B.agent	Ongoing evaluation of what is working and what is not	No review this year.
5.3	Provide tech support & BMP's to aprop. Boards agencies	Hiway, P.B & Tech.& Cmt/Hiway Supt. P.B.agents & Cmt member.	Ongoing assessment & use of improved BMP	Planning Board allows Low Impact Development techniques.
5.4	Required review & Comment B/4 bond reduction (or) return	Planning & Appeals Board Chairman each Board	Ensure compliance of BMP's of developing projects	Town Engineer/Hwy Supt. did final inspection of two projects before acceptance

6. Pollution Prevention and Good Housekeeping in Municipal Operations

<u>BMP ID #</u>	<u>BMP Description</u>	<u>Responsible Dept/Person</u>	<u>Measurable Goals</u>	<u>Progress on Goal(s) Permit Year 12</u>
6.1	Regular cleaning & inspections of catch basin	Hiway Dept./ Hiway Supt responsible Dept./Person Name	Regular assessment structure & removal of road soils	80% of catch basins cleaned & inspected annually
6.2	Regular Street sweeping	Hiway Dept/Hiway Supt.	Regular & periodic removal of road soils	All streets in Town swept at least once. Some major arteries twice. School & town lots also swept
6.3	Installation of deep sump basins	Hiway Dept/ Hiway Supt.	Collection of additional road soils from MS 4 systems	One deep sumps added during reporting period
6.4	Provide employee regds.train.hazs. mat. clean up & disposal	Hiway Dept/Hiway Supt.	Employees are trained in Hazmat	Employee maintained Hazmat certification (8 hours)
6.5	Provide work orders system	Hiway Dept/Hiway Supt & General Foreman	Provide records of mat. removed & work pref.on MS4	Work order system functioning well

Part IV. Summary of Information collected and Analyzed

Town is now approximately 89% sewerred and many illegal connections that may have existed have been eliminated. No illegal connections were detected during this reporting period. Further expansion of the sewer system is underway.

100% of catch basins have been stenciled; some have been re-stenciled.

All streets were swept of sand and salt at least once. Some of the Town's major arteries were swept twice.

Highway Department mowed and otherwise maintained all (100%) of the detention/retention basins in Town thanks to a fund established in 1988. Developers pay a \$500 per lot fee into a perpetual maintenance account established for the purpose of maintaining stormwater structures in subdivisions.

80% of catch basins were cleaned during reporting period out of 1800 total catch basins. These were checked for dry weather flows at the time of cleaning. ?? tons of material was taken to the Taunton Landfill operated by Waste Management.

All construction sites were inspected for adequate erosion and sediment control.

Annual Household Hazardous Waste Day was held at the Town's recycling and transfer station with Clean Harbors as the vendor. 186 residents brought household hazardous waste to this event in June of 2016.

There were no reports of illegal dumping/disposal into the Town's MS4 system.

40 bonds of \$2,000 each were collected for building lots on accepted roads to ensure adequate protection of the roadway and storm drainage.

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 **	(\$)	\$40,000 est.
Total program expenditures since beginning of permit coverage	(\$)	\$700,000 est.
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Stormwater Stabilization Account/General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	30%
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.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1 Annually
▪ community participation **	(# or %)	186
▪ material collected **	(tons or gal)	Var.
School curricula implemented	(y/n)	

Legal/Regulatory

In Place *Reviewing* *Draft*
 Prior to Existing in
Phase II Authorities Drafted 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					
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	175
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	20%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	3
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	3
% of population on sewer	(%)	89%
% of population on septic systems	(%)	11%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	12
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	24hwy/40bldg
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-	(%)	100%
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construction stormwater control		
Site inspections (for proper BMP installation & operation) completed **	(# or %)	2
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)	Every 2 years
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1x/year
Qty of structures cleaned **	(#)	1408
Qty. of storm drain cleaned **	(%, LF or mi.)	10%
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	?? tons est.
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial Use

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$17,000 est.
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$11.75/ea
• Disposal cost**	(\$)	\$0
Cleaning Equipment		
Clam shell truck(s) owned	(#)	1
Vacuum truck(s) owned/leased	(#)	0
Vacuum trucks specified in contracts	(y/n)	N
% Structures cleaned with clam shells **	(%)	99%
% Structures cleaned with vector **	(%)	1%

	(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
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	83 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Taunton Landfill- Beneficial Use
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$20,000 est.
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	n/a
• Disposal cost**	(\$)	\$0
Sweeping Equipment		
• Rotary brush street sweepers owned	(#)	1
• 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 %)	25%
▪ Herbicides	(lbs. or %)	25%
▪ Pesticides	(lbs. or %)	25%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Signs installed

	(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	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/ln mi. or %)	20%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	90%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	Y
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	n/a
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	

