

Municipality/Organization : Town of Rehoboth
EPA NPDES Permit Number: MAR041152
MassDEP Transmittal Number: W-041314
**Annual Report Number
& Reporting Period:** April 1, 2015 – March 31, 2016

8/18/16

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**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2016)**

Part I. General Information

Contact Person: David Perry **Title:** Stormwater Officer
Telephone#: 508-252-6891
Email: liscoirrigation@comcast.net
Mailing Address: 148 Peck St. Rehoboth, Ma. 02769

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 Perry

Title: Stormwater Officer

Date: 8/3/16

Part II. Self-Assessment

The Town of Rehoboth has completed the required assessment and has determined that the municipality is in Complete compliance with twenty- seven [27] of the permit conditions including:

BMP 1.1 Public education: Have reached 100o/o of residents in Rehoboth

BMP1.2 Stormwater Informational: Have videos running on public access channel

BMP1.3 Form Partnership: Have had dialog with state Highway officials about bridge and culvert repairs

BMP1.4 Informational Library: Stormwater materials accessible at Town Hall, C.O.A, and public library

BMP1.5 Educational Bulletin Board: We have three [3] public bulletin boards in town with stormwater material on them

BMP1.6 Tributary Signage: We have identified six [6] locations in Town signs are installed.

BMP2.1 Stormwater committee: Forming new committee, combination of Con. Com. & planning

BMP2.2 Public Meetings on By-Law: AH stormwater meeting are advertised as public meetings

BMP2.3 Roadside Cleanup: The Rehoboth Business Association has a cleanup every April with local paper

BMP 3.1 Stormwater Committee: Appointed by the Board of Selectmen September 2008/Proposed change in 2013 Met with CC and Planning Board the streamline process

BMP3.2 By-Law Stormwater: Enforced

BMP3.3 Storm Sewer Map: Done on CD and G.P.S

BMP3.4 Oil Drop-Off: Done once a year at our Highway Dept.

BMP3.5 Detection Plan: Our Stormwater Officer and Conservation office receive complaints and respond

BMP3.6 Educate Public Employees and Businesses: Deliver or Mail Stormwater Material / Personl communication

BMP4.1 Erosion Control: Stormwater Officer, Conservation and Planning Board, also included in Permit application

BMP4.2 Site Plan Review: Done by Conservation and Planning Board and Stormwater Committee.

BMP4.3 Mechanism for Site Inspection: Being done by our Conservation agent. And / or Stormwater Officer.

BMP4.4 Sanction for Compliance: In new By-law.

BMP4.5 Procedure for Receiving Info from Public: Complaints logged with Conservation Office

& Stormwater Officer BMP4.6 Certification for Contractors: In our new By-law

BMPS.1 BMP O&M Plan for Development: In new By-law

BMPS.2 Use of Structural or Non-Structural BMPs: In our Sub-Division control law and Stormwater By-Law .

BMPS.3 Post-Construction Runoff: In our sub-division control laws, Town by-laws and Stormwater By-laws.

BMPS.4 Certification for Property/Business Owners: Being done through our Stormwater Committee by having businesses keep logs on drainage cleaning

BMP6.1 O&M Plan for Town Properties/Structures: Procedures for Street Sweeping and catch basin cleaning

BMP6.2 Employee Training: The Stormwater committee is made up of members of most Boards and Dept. in Town there are bring their training back to their Dept.

The Town of Rehoboth has appointed a Stormwater Committee and Stormwater Officer to be responsible for fulfilling many of the requirements of this MS4 General permit.

In April 2008 the Town of Rehoboth Stormwater by-law went into effect. Signage for resource areas needing extra protection and public awareness have been purchased and erected. Stencils have been created to mark catch basins in town to further protect the resource areas from stormwater runoff. Additional trash receptacles have been purchased and placed where the Committee has become aware of that trash maybe reaching our resource areas. The Stormwater Committee has continued to follow up on resident's complaints and concerns. Permits have come before the Stormwater Committee for review and approval. The Stormwater Committee and Stormwater Officer have answered 4 complaints and have resolved or answered all.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach Maintain up to date materials at all town locations

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s)- Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities- Permit Year 13
1.1	Public Education Outreach Program	Stormwater Committee	Reach 100% of residents	Continue reaching out to the public	Continue reaching out to the public
Revised					
1.2	Stormwater Informational Videos	Stormwater Committee	Reach all households with cable access	Continue running videos also make our own video in our Town showing BMPs and videos from the EPA sit	Continue running videos also make our own video in our Town showing BMPs and videos from the EPA site
Revised					
1.3	Form Partnership	Highway Supt.	Address Stormwater concerns along state highways	Rebuild or installed rip-rap swales at pt discharges, Clear culverts and repair wash-outs along roads.	Continue to clear blocked Culvert and maintain Numerous outflows and Culverts.
Revised					
1.4	Informational Library	Stormwater Committee	Maintain Stormwater material up to date	Maintain up to date materials at all town locations	Maintain up to date materials at all town locations
Revised					
1.5	Educational Bulletin Board	Stormwater Committee	Target visitors to all Town locations	Maintain up to date materials on all Town Bulletin Boards	Have been trying to maintain up to date materials at Town Bulletin boards with little or no
Revised					
1.6	Tributary Signage	Highway Supt.	Identify Valuable resource areas	Small amount of funds available	Small amount of funds available

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1a. Additions

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s)- Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 13
2.1	Stormwater Committee	Board of Selectman	To regulate the by-law and anything pertaining to the regulation	Met with Planning and Conservation to review the stormwater permitting process and propose procedural changes.	To continue upgrading the Town Stormwater by-laws. Reviewing Stormwater Permits, working with planning and Con. Com..
Revised					
2.2	Public Meetings to discuss by-law	Stormwater Officer	Inform and received information from the public and business sector	Met with planning and to discuss permits.	Continue attending meetings with boards to insure by-law is implemented. Working with Con. Com. and Planning to Streamline permit process.
Revised					
2.3	Roadside Clean-up	Rehoboth Business Association	To reduce roadside waste entering drainage system	Boy and girl scouts performed road side clean-ups as well as private citizens and groups. Promoted by local online paper.	To extend our clean-up to Sept each year as well as April Better coordination & promote roadside clean-ups as townwide Coordination.
Revised					
Revised					
Revised					

Revised							
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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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 13
3.1	Stormwater Committee	Committee and Stormwater Officer	Person in charge of enforcement and BMPs	Promoted enforce of by-law.	Continue to Promote and enforce Stormwater by-law. Conservation agent passes info on to citizens and as well as Stormwater Officer.
Revised					
3.2	By-Law prohibiting Stormwater Discharge with enforcements	Stormwater Committee Stormwater Officer	Legal mechanism to control and enforce stormwater runoff	Continued to uphold by-law	Continue to upgrade our by-law to include new BMPs Work closely with both CC and Planning as both boards have jurisdiction over by-law. Keep up to date with HGW.
Revised					
3.3	Stormwater Sewer System Map	Highway Dept.	Map all catch basins in Town	Continued to locate all non-structure drainage on our Town roadways, 4 added	Continue mapping any new catch basins and Stormwater drainage structures. Working with HGW.
Revised					
3.4	Oil Drop Off Days	Highway Dept.	Reduction in potential illicit discharge	We have 2 collection days a year	Implement more collection days raise to 4.
Revised					
3.5	Detection Plan	Stormwater Officer and Highway Supt.	Respond to complaints and inquiries within 48 hours and maintain logs	Responded to complaints and concerns within 24 hrs. Met on 2 private calls and 2 municipale. Worked with HGW on culvert replacement.	To respond to complaints and find solutions and maintain laws. Found that face to face fast response gets best results. Work side by side with HGW.

Revised						
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3.6	Educate Public, Employees and Businesses about illegal discharge	Stormwater Committee	Hold workshops on Stormwater discharge and	Had more meetings and worked on bringing Stormwater, Planning and CC up to speed on the by-law	Continue to attended planning board meetings and meet with HGW employees and Dept. Head.
Revised					

3a. Additions

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4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s)- Permit Year 12 (non-municipal partners indicated, if any)	Planned Activities - Permit Year13
	Stormwater By-law	Stormwater Committee Stormwater Officer	Legal Mechanism to control stormwater discharge	Educated developers of our by-law and permitting process as well as new applicants. Thru CC and Planning Dept.	Streamline application process with Planning & Conservation Commission. Look at blanket permit.
Revised					
4.1	Site Plan review Procedure	Conservation and Planning Board Stormwater Committee	To guide contractors in the proper way of controlling erosion and sediment	looked for alternatives such as drainage pools and structures to reduce TSS in our resource areas. Direct surface run-off to forebays and directly into resource areas.	To look at new ideas on erosion and sediment control and new ways to minimize new impact. Have a more visible presence and be more hands on. Work Closely with HGW.
Revised					
4.2	Mechanism for Site inspection and enforcement	Stormwater Officer and Highway	Enforcement and Inspection written in by-law	Made site inspections and met with developers and HGW.	Stormwater Officer continues inspect sites and meet with developers and HGW.
4.3	Sanctions to Ensure Compliance	Stormwater Committee Stormwater Officer and Highway Supt	Sanctions and fines in new by-law		
Revised				Now have sanctions and penalty	Now have sanctions and
				Build in by-law	penalty build in by-law

4.5	Procedure for Receiving info from Public	Stormwater Officer and Town Hall	Respond to complaints and inquiries	To have complaints go to one location to log and assign the proper dept. Concerns went to employee e-mail.	All complaints go to Stormwater Office are logged and filed.
Revised					
4.6	Certification Procedure for Contractors	Stormwater Committee	To have Contractors prove their knowledge of Stormwater BMPs	Engineers are certified, made sure contractors followed engineered plan	Continue to make sure applications are complete and contractors are certified and of knowledgeable
Revised					

4a. Additions

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S. 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 12	Planned Activities - Permit Year 13
5.1	BMP Operations & Maintenance Plan	Stormwater Committee	Mechanism to require O&M plan and be able to inspect and enforce	O&M plan with Conservation committee And planning.	Continued to require filing an O&M plan with the Stormwater Committee and officer. Develop spreadsheet so Officer can track O&M plans for compliance
Revised					
5.2	Establish Standards For Structural or Non-Structural BMPs	Committee and Planning Broad	To require Structural or non-structural BMPs	enforced our by-laws to upgrade our BMPs	To require contractors to use structural or non-structural BMPs and fine new ways to improve these BMPs

Revised					
5.3	Post Construction runoff Controls	Cons. Com Planning Board Stormwater Comm.	To control runoff in and around construction site	Monitored sites during and post construction. As well as more importantly during construction working with CC & Planning.	Continued to make sure Requirements are met during construction but focusing also on perpetual maintenance of run-off controls.
Revised					
5.4	Certification Procedure for Property/Business Owners	Stormwater Committee Stormwater Officer	Require Business Owners to be familiar with their O&M plan	Worked to have record keeping and inspection by town.	Make sure Business owners follow up on required inspections and certifications on their O&M plan.
Revised					
Revised					
Revised					

Sa. Additions

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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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities - Permit Year 13
6.1	O&M plan for Municipal Properties/Structures	Stormwater Committee & Highway Dept.	Prevent and or reduce pollutants runoff from municipal drainage	Tried to maintain all O&M plans with limited funds. Worked with HGW. HGW did a good job with headwall maintenance and out flow structures.	Continue street sweeping, catch basin cleaning, stream and river headwalls maintenance and out flows.
Revised					
6.2	Employee Training	Stormwater Committee and Highway Dept.	Train all Highway and BOH employees on municipal procedures	Met with HGW on site and had pre-construction meetings	Meet with HGW on site as well as periodic office meetings to discuss target projects.
Revised					
Revised					
Revised					
Revised					
Revised					

6a. Additions

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

BMP ID#	BMP Description NIA	Responsible Oept./Person Name	Measurable Goal(s)	Progress -On Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Stormwater Committee has reviewed plans and issued permits. The Highway Dept. has continued to improve roadside drainage and swales. We have seen a great improvement in the way we handle Stormwater in our Town. Surface discharges have been cleared and rip-rap swales installed, over plows cleaned on 8 stream crossings.

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

Stormwater management position created/staffed!	(y/y)	yes
Annual program budget/expenditures **	\$	\$400.00
Total program expenditures since beginning of permit coverage	(\$)	\$14,000.00
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)	GF	\$400.00

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	100%	70%
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(#or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned**	(y/n or mi.)	YES **
Shoreline cleaned since beginning of permit coverage	(mi.)	3 miles**
Household Hazardous Waste Collection Days		
• days sponsored **	(#)	6-8
• community participation**	(#or%)	50%
• material collected **	(tons or gal)	4000 gal
School curricula implemented	(y/n)	Yes **

Legal/Regulatory

In Place

viewing

ft

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	Prior to Phase II	Existing Authorities	Drafted	In Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
• Illicit Discharge Detection & Elimination					X
• Erosion & Sediment Control	X				X
• Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with "X")					
• Illicit Discharge Detection & Elimination					X
• Erosion & Sediment Control	X				X
• Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	R'
Outfall mapping complete	(%)	90% **
Estimated or actual number of outfalls	(#)	83
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
• Paper/Mylar	(%)	
• CADD	(%)	100%
• GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	70% **
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	85%
Illicit discharges identified **	(#)	12 **
Illicit discharges identified (Since beginning of permit coverage)	(#)	69
Illicit connections removed **	(#); and (est. flod)	12
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	28
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

Number of construction starts (> 1-acre) **	(#)	40
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100% **
Site inspections completed **	(#or%)	0% **
Tickets/Stop work orders issued **	(#or%)	0 **
Fines collected**	(# and\$)	None
Complain s/concerns received from public **	(#)	3

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%)	0 **
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(yin)	N
Low-impact development (LID) practices permitted and encouraged	(yin)	N

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)**	(times/yr)	1 time/ Plus as needed
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)**	(times/yr)	1 time
Qty of structures cleaned **	(#)	1009
Qty. of storm drain cleaned**	(%, LF or mi.)	380' **
Qty. of screenings/debris removed from storm sewer infrastructure**	(lbs. or tons)	250 Ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Highway Dept

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)** (town owned)	(\$)	\$0..In hose HWY Dept.
• Hourly or per basin contract rate** (no contract- Hwy employee)	(\$/hr or \$ per basin)	\$15/CB
• Disposal cost**	(\$)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	3
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(Y/n)	0
• % Structures cleaned with clam shells**	(%)	100%
• % Structures cleaned with vector **	(%)	0% **

Average frequency of street sweeping (non-commercial/non-arterial streets)**		
	(times/yr)	2/or as needed
Average frequency of street sweeping (commercial/arterial or other critical streets) **		
	(times/yr)	2
Qty. of sand/debris collected by sweeping **		
	(lbs. or tons)	1,000 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **		
	(location)	Highway Dept.
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$20,000-25,000
• Hourly or lane mile contract rate **	(\$/hr. or Ln mi.)	\$125 /hr
• Disposal cost**	(\$)	Highway
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	3
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % 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: ("NIA" = never used; "100%" = elimination)		
• Fertilizers	(Lbs. or%)	200lbs
• Herbicides	(Lbs. or%)	NIA
• Pesticides	(Lbs. or%)	NIA
Integrated Pest Management (IPM) Practices Implemented	(Yin)	Yes

Average Ratio of Anti-IDE-Icing products used** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) Implementing beet juice	%NaCl	NIA	
	% CaCl ₂	NIA	
	%MgCb	NIA	
	%CMA	NIA	
	%Kac	NIA	
	%KCl	NIA	
	% salt	%Sand 30%	70%
Pre-wetting techniques utilized **	(Yin or%)	no	
Manual control spreaders used **	(Yin or%)	7 **	
Zero-velocity spreaders used**	(Yin or%)	no	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or%)	10% - **	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or%)	10%- **	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%	
Storage shed(s) in design or under construction	(yin or#)	yes	
100% of salt/chemical pile(s) covered in storage shed(s)	(Yin)	100%	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	#or y/n	Yes
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	#or y/n	Yes
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No