

Municipality/Organization: Town Of Rehoboth

EPA NPDES Permit Number: MAR041152

MassDEP Transmittal Number: W-041314

**Annual Report Number
& Reporting Period:**

April 1, 2007 – March 31, 2008

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5/1/08

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2008)

Part I. General Information

Contact Person: Michael Costello

Title: Stormwater Officer

Telephone #: 508-252-6891

Email: reho25@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: Michael Costello

Title: Stormwater Officer

Date: 4/28/08

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- three [23] of the permit conditions including:

BMP1.1 Public education: Have reached 100% 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 route 44

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 ten [10] locations in Town signs are ordered and will be installed in the spring

BMP2.1 Stormwater committee: On going for almost two [2] years meeting once a month

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

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

BMP 3.1 Stormwater Office: Appointed in Oct.2007 by our Board of Selectmen

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 Highway Dept and Conservation office receive complaints and respond

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

BMP4.1 Erosion Control: Has been done by conservation and Planning Board up until now new by-law will add More

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

BMP4.3 Mechanism for Site Inspection: Being done by our Highway Supt. And new Stormwater Officer

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

BMP5.2 Use of Structural or Non-Structural BMPs: In our Sub-Division control law

BMP5.3 Post-Construction Runoff: In our sub-division control laws and Town by-laws

BMP5.4 Certification for Property/Business Owners: Being done though our Planning Board 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.

Partial compliance on four [4] permit conditions including:

BMP3.2 By-Law Stormwater: Going before Town meeting in April 2008

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

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

BMP5.1 BMP O&M Plan for Development: In new By-law

The Town of Rehoboth has appointed a Stormwater Officer to be responsible for fulfilling many of the requirements of this MS4 General Permit. Our Town has gone through four [4] Planning /Conservation agents since the beginning of our first permit year in 2003. It has been handed from one agent to another with little progress on the permit conditions. When I took the job of stormwater officer in Oct.2007 the Town was in compliance with just three [3] of the permit conditions; as of February 2008 the Town is in compliance with twenty-three [23] permit conditions. We have a new by-law going before Town meeting in April 2008. We have identified some problem areas which we plan to correct in the spring of 2008. Our Planning Board has begun looking at BMPs with regards to drainage and retention areas and more efficient ways of removing TSS in new developments. We are also going to monitor and inspect local Businesses in Town to make sure they are following there O&M plan and logging all drainage cleaning they may have done. Our Town anticipates an extremely productive spring and summer with the new by-law going into effect and planned projects we feel we are well on our way to being a model for stormwater Best Management Practices.

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
1.1	Public Education Outreach Program	Stormwater Officer	Reach 100% of residents	Have published articles in local paper that is mailed to 100% of homes in Town	Continue to publish in local paper and mail in tax bills
Revised					
1.2	Stormwater Informational Videos	Stormwater Officer	Reach all households with cable access	Have been running Stormwater videos twice weekly changing video content monthly	Continue running videos also make our own video in our Town showing BMPs
Revised					
1.3	Form Partnership	Stormwater officer	Address Stormwater concerns along state highways	Have met with a representative of Mass Highway to air our concerns along Route 44	Have our concerns become reality with better BMPs
Revised					
1.4	Informational Library	Stormwater Officer	Maintain Stormwater material up to date	Stormwater materials available at all Town location	Maintain up to date materials at all town locations
Revised					
1.5	Educational Bulletin Board	Stormwater Officer	Target visitors to all Town locations	Have put up Stormwater posters at the 6 Town bulletin Boards	Maintain up to date materials on all Town Bulletin Boards
Revised					
1.6	Tributary Signage	Stormwater Officer	Identify Valuable resource areas	Ten [10] location identified along Town roads signs have	Continue locating resource areas to sign

Revised					
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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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
2.1	Stormwater Committee	Board of Selectman	To regulate the new by-law and anything pertaining to the regulation	Committee established in 06 with members of various boards appointed, writing new by-law and any regulations to maintain compliance	To maintain rules and regulations and act as an appeal process
Revised					
2.2	Public Meetings to discuss by-law	Committee and Stormwater Officer	Inform and received information from the public and business sector	12 meetings in 07 plus 3 public workshops in 08	To hold meetings once monthly and speak at local public events
Revised					
2.3	Roadside Clean-up	Rehoboth Business Association	To reduce roadside waste entering drainage system	Done every year in or around April	To extend our clean-up to Sept each year as well as April
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
3.1	Stormwater Officer	Committee and Board of Selectman	Person in charge of enforcement and BMPs	Stormwater Officer appointed Oct. 07 by the Board of Selectmen. Have a budget in place	Have proposed new budget for 08 have officer enforce new Stormwater By-Law
Revised					
3.2	By-Law prohibiting Stormwater Discharge with enforcements	Stormwater Officer and Highway Supt.	Legal mechanism to control and enforce stormwater runoff	By-Law 100% complete by our Town lawyer and B.O.S. was to late for Oct 07 Town Meeting	By-Law is on the Town Warrants for our April 08 Town Meeting (See Attached)
Revised					
3.3	Stormwater Sewer System Map	Highway Dept.	Map all catch basins in Town	All structures located and mapped, burned to a disc; and G.P.S.	Locate all non-structure drainage on our Town roadways
Revised					
3.4	Oil Drop Off Days	Highway Dept.	Reduction in potential illicit discharge	One collection day in April 07. Collected every year in April before and after this permit.	Will add second date in Sept. 08, have two dates a year
Revised					
3.5	Detection Plan	Stormwater Officer and Highway Supt.	Respond to complaints and inquiries within 48 hours and maintain logs	Highway Dept. and Stormwater officer have responded to many complaints in 07 and the beginning of 08	To set up a hot line number for complaints and questions at the Town Hall
Revised					

3.6	Educate Public, Employees and Businesses about illegal discharge	Stormwater Officer and Committee	Hold workshops on Stormwater discharge and BMPs	Have held Public Meetings and 3 workshops on this subject	Will hold more workshops with invited professionals on this subject to speak
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
4.1	Stormwater By-Law	Committee and Stormwater Officer	Legal Mechanism to control stormwater discharge	Have written the by-law tried to submit it at our Oct.07 Town meeting but had language problems was corrected and is on our April 08 warrant (See Attached)	To implement our new by-law with permitting and enforcement
Revised					
4.2	Site Plan review Procedure	Conservation and Planning Board	To guide contractors in the proper way of controlling erosion and sediment	All new construction submitted for review are being looked at very closely for TSS removal and other options	To look for more alternative drainage pools and structures to reduce TSS in our resource areas
Revised					
4.3	Mechanism for Site inspection and enforcement	Stormwater Officer and Highway Supt.	Enforcement and Inspection written in new by-law	Highway Supt. Has been doing this right along Stormwater Officer has done some inspection beginning in Oct.07	Both Highway Supt. And Stormwater Officer will have a new By-Law for inspections and enforcements
Revised					
4.4	Sanctions to Ensure Compliance	Stormwater Officer and Highway Supt.	Sanctions and fines in new by-law	Highway Dept., Conservation And Planning Board have some regulation for enforcement	Will have new by-law in effect with sanctions and fine language
Revised					

4.5	Procedure for Receiving info from Public	Stormwater Office and Highway Dept.	Respond to complaints and inquiries	Highway Dept Stormwater and Conservation Comm. Have responded to all complaints	To have complaints go to one location to log and assign the proper dept
Revised					
4.6	Certification Procedure for Contractors	Stormwater Committee	To have Contractors prove their knowledge of Stormwater BMPs	In the new by-law for April 08	After April 08 will require contractors to be certificated
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 5	Planned Activities – Permit Year 6
5.1	BMP Operations & Maintenance Plan	Stormwater Officer	Mechanism to require O&M plan and be able to inspect and enforce	Spelled out in new By-Law that will be before our April Town Meeting	To require every contractor who meets the requirements to follow the O&M plan
Revised					
5.2	Establish Standards For Structural or Non-Structural BMPs	Committee and Planning Broad	To require Structural or non-structural BMPs	In place with Planning Board but used on a small scale	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	Committee	To control runoff in and around construction site	Required in our conservation regs. Also required in sub-division control regs. Does not go far enough	New by-law will cover all runoff controls and expand our regs. In sub-divisions
Revised					
5.4	Certification Procedure for Property/Business Owners	Stormwater Officer	Require Business Owners to be familiar with their O&M plan	Required by Planning and Conservation But does not address enough	To expand Certification to have record keeping and inspection by Town
Revised					
Revised					

Revised					
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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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
6.1	O&M plan for Municipal Properties/Structures	Stormwater Officer & Highway Dept.	Prevent and or reduce pollutants runoff from municipal drainage	Procedures in place for yearly street sweeping and catch basin cleaning	Expand to cleaning Fire water holes and stream and river head walls along our public roadways
Revised					
6.2	Employee Training	Stormwater Officer and Highway Dept.	Train all Highway and BOH employees on municipal procedures	Our Stormwater Committee is made up of members of conservation, Planning, BOH and Highway ect. These members are to bring their experience back to their boards	To expand to have a few training days through out the year, to expand on Good Housekeeping procedures
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	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

As Stormwater Officer I have, only had since Oct. 07, to analyze the Town wide needs when it comes to BMPs. I have looked at many areas and have come up with a plan for year 08 a lot of our Stormwater in Town will flow along our roadways until it meets a swale cut in the side of the road or may drain right into a stream or river going under a roadway. What I plan on doing is work with our Highway Dept. and have rip rap areas and grass swales installed to clean all Stormwater before it enters our resource areas.

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

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	yes
Annual program budget/expenditures **	(\$)	\$7,600.00 **
Total program expenditures since beginning of permit coverage	(\$)	\$10,000.00 **
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		\$8,600.00 **

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	100% **
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	no
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 **	(#)	10
▪ community participation **	(# or %)	25%
▪ material collected **	(tons or gal)	3000 gal.

School curricula implemented	(y/n)	Yes **

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	(%)	65% **
Estimated or actual number of outfalls	(#)	47 act. **
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	100%
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	30% **
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	30%
Illicit discharges identified **	(#)	35 **
Illicit discharges identified (Since beginning of permit coverage)	(#)	35
Illicit connections removed **	(#); and (est. gpd)	0

Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	3
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	6 **
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100% **
Site inspections completed **	(# or %)	80% **
Tickets/Stop work orders issued **	(# or %)	1 **
Fines collected **	(# and \$)	In legations
Complaints/concerns received from public **	(#)	16 **

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	50% **
Site inspections (for proper BMP installation & operation) completed **	(# or %)	6 **
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	yes
Low-impact development (LID) practices permitted and encouraged	(y/n)	No/ will be

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 **	(#)	1,172
Qty. of storm drain cleaned **	(%, LF or mi.)	380' **

Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	200 Ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Highway Dept.

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$22,500
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$19.20 hr.
• Disposal cost**	(\$)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vector **	(%)	3% **

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Highway Dept.
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$20,000
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	\$91.74 ln. mi.
• Disposal cost**	(\$)	Highway
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• 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: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	300 lbs
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Yes

	(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 % salt	N/A N/A N/A N/A N/A N/A 80% 20%
Pre-wetting techniques utilized **	(y/n or %)	no
Manual control spreaders used **	(y/n or %)	10 **
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	15% - **
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	15%- **
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	no
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	no
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	Yes
<ul style="list-style-type: none">• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No

Office of
STORMWATER AGENT
148 Peck Street
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To Serve and Assist

April 23, 2008

Ann Herrick – CIP
U. S. Environmental Protection Agency – Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Stormwater Permit

Dear Ms. Ann Herrick - CIP,

Attached please find the completed MS4 General Permit, a copy of the Town of Rehoboth Warrant article for the acceptance of the proposed by-laws, and a copy of Town accepted amended by-law. Please note that The Stormwater Officer is aware that this by-law must now go before the Attorney General's office, and will be in hand at the time of your receipt of this letter.

Thank you for your time.

Yours Truly,

Michael Costello
Stormwater Officer
401-474-4416 cell