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Municipality/Organization: Town of Raynham, MA

EPA NPDES Permit Number: MAR 041151

MassDEP Transmittal Number: W-

Annual Report Number    Year 9  
& Reporting Period:                    April 1, 2011 – March 31, 2012

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

**Part I. General Information**

Contact Person: Randall A. Buckner

Title: Town Administrator

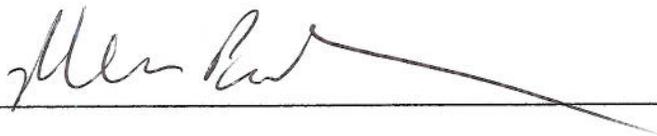
Telephone #: 508.824.2707

Email: rbuckner@town.raynham.ma.us

Mailing Address: 558 South Main Street, Raynham, MA 02767

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: 4/30/2012

## 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 2.2 – Illicit Discharge Detection & Elimination By-law has not been accepted as a Town by-law as of this date. Budget cuts have eliminated the Town’s conservation agent position hampering efforts to move it forward. However, the Town has continued to enforce health regulations preventing most illegal discharges to the Town’s stormwater system.

## 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 9</u>
1.1	Introduce topic to students as appropriate	Public Education task force	Classroom presentations	Presentations made to one elementary school classes

1.2	Design & Distribute	Town Administrator	Raise public awareness pollution of stormwater	Completed in year 2
1.3	Stencil storm drains	Highway Department/Identify MS4 for public Highway Superintendent		Completed in year 4
1.4	Create Public 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/Reprective Supt.	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 9</u>
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2.1	Form Technical	Town Administrator/ Board of Selectmen	Board of Selectmen vote to form committee	Completed in year 1
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2.2	Tech.Comm.drafts by-law	Technical Committee	Illicit Discharge and E & S bylaws presented to Town	Draft By-Law
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	Public and press invited to Stormwater Committee Meetings
2.4	Solicit residents to report discharges	Task Force	Residents report	No incidents reported this year
2.5	Provide public notice of all meetings/hearings	Technical Committee	Public attends Meeting & Hearings	Meetings of the ad hoc committee advertised on Town website
<u>2A Additions</u>				
2.6	HHW Collection	Hiway Supt	Hold one Town-wide event	Town-wide Event event held on June 19, 2011

**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 9</u>
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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	Monitor MS4	Highway Dept. checked catch basins for dry weather flows (none found)
3.3	Inspections during routine detention/retention basin assessment	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 Violations
3.5	Prvd. Insp. & tech. assist. to & ZBA Boards	Highway & Planning Board Dept/Hiway & P.B	Develop & enforce Management practices	On-going

**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 9</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
4.2	Conduct subdivision review & inspections	Hiway & Planning Dept./Hiway Supt.& Planning Board	Enforce const. of aprv. plans through subdivision cont.	Two subdivisions reviewed for compliance before acceptance by the Town
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	Completed
4.5	Conduct routine & impromptu inspections during const.	Highway Dept / Highway Supt. or designated agent	Discourage MS4 violations & encourage best Mgt.Practices	Highway employees conducted scheduled & unscheduled inspec.of all construction sites

**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 9</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 (one subdivision)
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 apropp. Boards agencies	Hiway, P.B & Tech. & Cmt/Hiway Supt. P.B. agents & Cmt member.	Ongoing assessment & use of improved BMP	Planning Board is considering Low Impact Development techniques.
5.4	Required review & Comment B/4 bond reduction (or) return	Planning & Appeals Board 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 9</u>
6.1	Regular cleaning & inspections of catch basin	Hiway Dept./ Hiway Supt responsible Dept./Person Name	Regular assessment structure & removal of road soils	All catchbasins in Town cleaned & inspected
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
6.3	Installation of deep sump basins	Hiway Dept/ Hiway Supt.	Collection of additional road soils from MS 4 systems	No road re-construction by Highway Dept. 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 80% sewerred and many illegal connections that may have existed have been eliminated. No illegal connections were detected during this reporting period.

100% of catch basins have been stenciled.

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

Highway Department checked and 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. Approximately \$14,000 was spent on maintenance from this fund during this reporting period.

All catch basins were cleaned during reporting period (1664 of them). These were checked for dry weather flows at the time of cleaning.

All construction sites were inspected for adequate erosion and sediment control, although the number of construction sites was greatly diminished due to the depression in housing construction and building generally. Only one large project (greater than 1 acre) was constructed during time period (Hyundai Dealership on Rt. 44)

Annual Household Hazardous Waste Day was held at the Town's recycling and transfer station as usual. About 150 residents brought household hazardous waste to this event on June 19, 2011.

Stormwater outfalls have all been converted from paper maps to the Town's GIS system.

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

**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, 2011 through March 31, 2012)

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$60,000 est.
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	75%
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		
<ul style="list-style-type: none"> <li>▪ days sponsored **</li> </ul>	(#)	1 Annually
<ul style="list-style-type: none"> <li>▪ community participation **</li> </ul>	(# or %)	150
<ul style="list-style-type: none"> <li>▪ material collected **</li> </ul>	(tons or gal)	Var.
School curricula implemented	(y/n)	

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**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			
▪ Post-Development Stormwater Management			

**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)	(%)	50%	

Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	50%
▪ GIS	(%)	
Outfalls inspected/screened **	(# or %)	
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)	2
% of population on sewer	(%)	80%
% of population on septic systems	(%)	20%

**Construction**

(Preferred Units) Response

Number of construction starts (>1-acre) **	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	4
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-construction stormwater control	(%)	33%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	8
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/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/year
Qty. of structures cleaned **	(#)	1664
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	100 tons est.
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

Basin Cleaning Costs			
• Annual budget/expenditure (labor & equipment)**	(\$)		\$15,000 est.
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)		
• Disposal cost**	(\$)		
Cleaning Equipment			
Clam shell truck(s) owned/leased	(#)		1
Vacuum truck(s) owned/leased	(#)		0
Vacuum trucks specified in contracts	(y/n)		
% Structures cleaned with clam shells **	(%)		100%
% Structures cleaned with vactor **	(%)		0%

(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)		1
Qty. of sand/debris collected by sweeping **	(lbs. or tons)		138 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)		Taunton Landfill
Annual Sweeping Costs			
• Annual budget/expenditure (labor & equipment)**	(\$)		\$10,000 est.
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)		
• Disposal cost**	(\$)		0
Sweeping Equipment			
• Rotary brush street sweepers owned/leased	(#)		1
• Vacuum street sweepers owned/leased	(#)		0
• Vacuum street sweepers specified in contracts	(y/n)		
% Roads swept with rotary brush sweepers **	%		100%

% Roads swept with vacuum sweepers **	%	0%
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Reduction (since beginning of permit coverage) in application on public land of:  
 ("N/A" = never used; "100%" = elimination)

<ul style="list-style-type: none"> <li>▪ Fertilizers</li> <li>▪ Herbicides</li> <li>▪ Pesticides</li> </ul>	(lbs. or %)	
	(lbs. or %)	
	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

Average Ratio of Anti-/De-Icing products used \*\*

(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)

	(Preferred Units)	Response
	% NaCl	65
	% CaCl <sub>2</sub>	
	% MgCl <sub>2</sub>	5
	% CMA	
	% Kac	
	% KCl	
	% Sand	30
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/in mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/in mi. or %)	

% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
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	