

4/18/14

Municipality/Organization: TOWN OF RYE, NH

EPA NPDES Permit Number: NHR041030

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Annual Report Number & Reporting Period: Year 11 April 1, 2013 – March 31, 2014

# NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2014)

## Part I. General Information

Contact Person: Dennis G. McCarthy Title: Public Works Director

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Mailing Address: Town Hall, 10 Central Road, Rye, NH 03870

### 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: Dennis G. McCarthy

Title: Public Works Director

Date: 4/14/14

Signature: 

Printed Name: Craig N. Musselman

Title: Board of Selectmen - Chairman

Date: 4/14/04

## Part II. Self-Assessment

During this eleventh and hopefully final year of the current permit the Town has continued to minimize the impact of storm water runoff on the environment by accomplishing the following:

- Participate in two household hazardous waste collections.
- Continued to refine and upgrade the storm water infrastructure date acquisition.
- Reduce the application of road salt by calibrating all salt application equipment to provide the minimum effective amount of deicer, and required all plow operators to complete Green Snow Pro salt reduction training
- Continued elimination of the application of road sand during snow removal operations.
- Continued attendance and participation in the Seacoast Storm Water Coalition meetings.
- Continued residential waste oil collection program.
- Continued presentation of storm water related article in the Town newsletter.
- Continued to clean one quarter of all catch basins each year.
- Completed the study of all road drainage cross culverts greater than 15 inches in diameter.
- Hosted Canine Detection Program in Parsons Creek watershed.
- Re-stenciled all catch basin warning labels.
- Located one illicit discharge, and worked with homeowner to replace contributing septic system.
- Planted rain garden plantings at two roadside locations and constructed one rain garden.
- Participated in Seacoast Stormwater Coalition Turf BMP Study.

**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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1	Articles in Town Newsletter & website	Public Works D. McCarthy	Twice per year	Three times this year	A) Stormwater Pollution Solutions B) MS4 Explanation
2	Road Stencils for Drains	Public Works D. McCarthy	50 per year	Re-stenciling all catch basin labels.	Renew 100 per year
3	Develop educational resources	Public Works D. McCarthy	Once per year	None	Home mailer
4	Pet Waste Management	Public Works D. McCarthy	Annually with dog licenses	Signs posted at all beaches to clean up after their pets.	Work with SCOOP on beach clean-up. Develop handout given when licensing dog.
5	Show UNH Video	Public Works D. McCarthy	Once per year	None	Locate video and continue program.
6	Outreach in Rye School System	Public Works D. McCarthy	Twice per year	None	Revise elementary school curriculum.
7	Public Info. on treat. CB's for mosquitoes	Public Works D. McCarthy	As determined by testing	Annual testing revealed no treatment required.	Continue testing.
8	Door hangers on CB cleaning	Public Works D. McCarthy	Once per year	When cleaning C.B.'s	Continue



## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
9	Community Cleanups	Public Works D. McCarthy	Once per Year	Several beach cleanups held by various community groups. Worked with Blue Ocean Society	Continue.
10	Storm Drain Stenciling	Public Works D. McCarthy	Once per year	Re-stenciled all catch basin warning labels.	Refresh 100 per year.
11	Meet w/ Seacoast Stormwater Coalition	Public Works D. McCarthy	Twice per year	Attended six meetings	Continue to attend six meetings per year.
11.1	Planning Board Public Hearing	Public Works D. McCarthy	Once per year	Met one time with Board	Continue to meet annually with Board discuss storm water management issues.

## 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
12	Public Information	Public Works D. McCarthy	Every two years	None this year.	Continue next year.
13	Remove Known Illicit Connections	Public Works D. McCarthy	Ongoing	Located one illicit discharge at 640 Central Road. Working with homeowner to replace septic system	Continue as needed.
14	Review Town Ordinances	Public Works D. McCarthy	Annually	Completed	Continue annual review

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
15	Enforce Land Development Reg's	Public Works D. McCarthy	Ongoing	All sites required to have storm water design by engineer.	Continue program.

#### 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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
16 Revised	Enforce Land Development Req's	Public Works D. McCarthy	Ongoing	All site construction inspected by Planning board's engineers and report filed.	Continue Program

#### 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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
17	Clean Catch Basins	Public Works D. McCarthy	Each Spring	Cleaned 200 of 800 this period	Continue to clean a minimum of 25% of basins each year.
18	Sweep Streets	Public Works D. McCarthy	Each Spring	Swept all roads this year.	Reduce use of road sand and continue annual sweeping
19	Spill Response & Prevention	Public Works D. McCarthy	Annual training	Conducted training with staff.	Continue program

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
20	Continue monitoring stormwater for TMDL	Public Works D. McCarthy	Ended in 2004	Completed	None
21	Salt March Restoration	Conservation Commission	Ongoing	None this year	Work with Cons Com. to locate impacted areas for future consideration.
22	Develop Non-Point Program	Public Works D. McCarthy	3 to 5 years	None	None
23	Continue Update of drainage plan	Public Works D. McCarthy	Final Phase	Completed study of all drainage road crossings greater than 15" in diameter.	Begin replacement of substandard road crossings.

**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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
24	Re-designate Flow Direction	Public Works Bud Jordan	Completed	Completed	None

**7b. WLA Assessment**

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



**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, 2010 through March 31, 2011)

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	Yes-Dennis McCarthy
Annual program budget/expenditures **	(\$)	\$20,000
Total program expenditures since beginning of permit coverage	(\$)	Unknown
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	25%
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	5
Shoreline cleaned since beginning of permit coverage	(mi.)	All
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> <li>▪ days sponsored **</li> <li>▪ community participation **</li> <li>▪ material collected **</li> </ul>	(#)	2
School curricula implemented	(# or %)	10%
	(tons or gal)	2 Tons
	(y/n)	No

**Legal/Regulatory**

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
▪ 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	(%)	100 (2008)
Estimated or actual number of outfalls	(#)	30 (2008)
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100 (2008)
Mapping method(s)		
▪ Paper/Mylar	(%)	100 (2008)
▪ CADD	(%)	0
▪ GIS	(%)	100 (2009)
Outfalls inspected/screened **	(# or %)	100 (2008)
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100
Illicit discharges identified **	(#)	1
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	1
% of population on sewer	(%)	10
% of population on septic systems	(%)	90



### Construction

	(Preferred Units)	Response
Number of construction starts (> 1-acre) **	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(# or %)	100%
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	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	YES
Low-impact development (LID) practices permitted and encouraged	(y/n)	YES

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/4
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/4
Qty of structures cleaned **	(#)	200
Qty. of storm drain cleaned **	(%, LF or mi.)	10
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	20 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost

Basin Cleaning Costs			
• Annual budget/expenditure (labor & equipment)**		(\$)	\$10,000
• Hourly or per basin contract rate **		(\$/hr or \$ per basin)	\$30
• Disposal cost**		(\$)	0
Cleaning Equipment			
• Clam shell truck(s) owned/leased		(#)	0
• Vacuum truck(s) owned/leased		(#)	1
• Vacuum trucks specified in contracts		(y/n)	NO
• % Structures cleaned with clam shells **		(%)	0
• % Structures cleaned with vacor **		(%)	100

	(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)	5 Tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$5,000
• Hourly or lane mile contract rate **	(\$/hr. or In mi.)	\$100/hour
• Disposal cost**	(\$)	0
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	0
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % 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:	
• Fertilizers	(lbs. or %) N/A



▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	No

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	0
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% CaCl <sub>2</sub>	100%
	% MgCl <sub>2</sub>	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	0
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	100%
Zero-velocity spreaders used **	(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	10%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	100%
% 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)	Yes

### 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	No
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No