

Municipality/Organization: **TOWN OF RYE, NH**

EPA NPDES Permit Number: **NHR041030**

4/17/12
P

Annual Report Number

& Reporting Period: **Year 9 April 1, 2011 – March 31, 2012**

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

Part I. General Information

Contact Person: **Dennis G. McCarthy**

Title: **Public Works Director**

Telephone #: **(603) 964-5300**

Email: **dmccarthy@town.rye.nh.us**

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: _____

Signature: _____

Printed Name: **Priscilla V. Jenness**

Title: **Board of Selectmen - Chairman**

Date: _____

Part II. Self-Assessment

During this ninth 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.
- Complete the final phase of the storm water infrastructure date acquisition.
- Reduce the application of road salt by revising salt application procedures during snow & ice removal operations.
- Eliminate the application of road sand during snow removal operations.
- Increase attendance and participation in the Seacoast Storm Water Coalition meetings.
- Continue residential waste oil collection program.
- Complete the Fairhill Drainage Improvement project.
- Increase the frequency of storm water related articles in the Town newsletter.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1	Articles in Town Newsletter & website	Public Works D. McCarthy	Twice per year	Four times per year	A) Stormwater Pollution Solutions B) MS4 Explanation
2	Road Stencils for Drains	Public Works D. McCarthy	50 per year	Completed stenciling all catch basins.	Repaint 100 per year
3	Develop educational resources	Public Works D. McCarthy	Once per year	Ongoing	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 cleanup. 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	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 9 (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.	Continue.
10	Storm Drain Stenciling	Public Works D. McCarthy	Once per year	Completed	Re-paint 100 per year.
11	Meet w/ Seacoast Stormwater Coalition	Public Works D. McCarthy	Twice per year	Met four times	Meet eight times in next period
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 9 (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	None found	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 9 (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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
16 Revised	Enforce Land Development Reg'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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
17	Clean Catch Basins	Public Works D. McCarthy	Each Spring	Cleaned 200 of 600 this period	Increase to 50% of total each year
18	Sweep Streets	Public Works D. McCarthy	Each Spring	Swept all roads	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 9 (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	Continue	Continue
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	Continue	Complete Final Phase in 2011 By AMEC Engineers

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
24	Redesignate 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 **	(\$)	\$30,000
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 %)	50%
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.)	3
Shoreline cleaned since beginning of permit coverage	(mi.)	All
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	2
▪ community participation **	(# or %)	10%
▪ material collected **	(tons or gal)	2 Tons
School curricula implemented	(y/n)	No

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	(%)		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 **	(#)		0
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)		0
% of population on sewer	(%)		10
% of population on septic systems	(%)		90

Construction

	(Preferred Units) Response	
Number of construction starts (>1-acre) **	(#)	10
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)	Tri-annual
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	Tri-annual
Qty. of structures cleaned **	(#)	250
Qty. of storm drain cleaned **	(%, LF or mi.)	None
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	50 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 vacator **	(%)		100

(Preferred Units) Response

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)		Once
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)		Once
Qty. of sand/debris collected by sweeping **	(lbs. or tons)		50 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.)		\$85/hour
• 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)		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:
 ("N/A" = never used, "100%" = elimination)

■ Fertilizers	(lbs. or %)		N/A
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■ 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 % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	0 100% 0 0 0 0 0
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		
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 %)	None
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