

Received -
3/26/2012

Municipality/Organization: Town of Atkinson

EPA NPDES Permit Number: NHR041002

MassDEP Transmittal Number: W-

Annual Report Number Year 9

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

P.

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Edward A. Stewart

Title: Road Agent

Telephone #: (603) 362-4010

Email: RoadAgent@Atkinson-NH.Gov

Mailing Address: 21 Academy Ave. Atkinson, NH 03811

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: Edward A. Stewart

Title: Road Agent

March 19, 2012

Date:

Part II. Self-Assessment

2011 was an excessive year as far as stormwater management was concerned. The town had two major structure failures. First was Millstream Drive. A precast bridge with a T-wall support system was red listed by NH DOT, because the T-wall system showed misalignment. A few of the panels had moved two or more inches. So the town developed a plan with Stantec Engineering to find a cause and figure out a solution. The town decided to extend our present contract with Busby Construction Company to disassemble and reassemble the T-wall in 2012. Second, we found a double forty-foot steel cross culvert on Brendon Road had corroded and began to fail. Again we used Stantec Engineering to help the town through the permitting process to slip line the existing culvert in place. This work should be completed in 2012. We also added some edge drain and catch basins to Jericho Road, to alleviate an on going ice problem. This project proved very beneficial to reducing the salt used for the neighborhood. The town also rebuilt Merrill Drive and Hovey Meadow Road adding drainage where needed. Again these improvements proved to be beneficial in reducing the amount of erosion experienced in that neighborhood. 2011/2012 winter season proved to be quite mild, reducing salt use by over fifty percent (can't take much credit for that). An early October snowstorm cause lots of tree damage throughout town. FEMA monies were used to do a town-wide cleanup of fallen trees and broken branches caused by this storm. The roadside ditches were blocked by debris until the cleanup was complete. I am very proud of how our town weathered the storms of 2011 and we will continue with our BMP's.

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
Revised	2 Annual newsletters from Town of Atkinson	Highway Dept.	Reach as many residents as possible		
Revised	1 Annual newsletter from Hampstead Area Water Company	Hampstead Area Water Company	Reach as many customers as possible		
Revised	Local Cable Company	Atkinson Cable Channel	Reach as many residents as possible		
Revised	Annual Town Report	Highway Dept.	Reach as many residents as possible		
Revised	Atkinson Academy	School	Reach as many residents as possible		

1a. Additions

--	--	--	--	--	--

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
	Atkinson Clean-up days	Recreation & Highway	Cleans sides of roadways and public areas	Local scout troops (boys & girls) Local families	
Revised					
	2 Household Hazardous Waste Collections	Highway Dept.	Amount of hazardous waste collected	Outside company collects waste while town publicizes and facilitates	
Revised					
	Adopt a highway	NH DOT	Local companies clean sides of 121		
Revised					
Revised					

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised	Semi-annual inspection of culverts and catch basins	Highway Dept.			
Revised	Conductivity testing of large bodies of water	Big Island Pond Association	Determine sodium chloride levels		
Revised	Local code enforcement	Building Inspection Dept.	Insures proper site controls are in place and maintained		
Revised	Local Health Officer	Building Inspection Dept.	Insures proper installation of septic systems and wells. Also responsible to resolve failed systems		
Revised	Full-time police patrol	Police Dept.	Detecting illegally dumped products		

	Fire Dept. Hazardous Substance training	Fire Dept / Southern NH regional hazardous material response team	Control contamination at spill sites and supervise site clean-up		
Revis ed					

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised	Planning Board over-site for new projects	Planning Board	Approval of plans meeting state stormwater management guidelines		
Revised	On-site review and inspection	Town Engineering company	Ensure proper installation and maintenance of stormwater control devices		
Revised	Periodic on-site visits by road agent	Highway Dept.	Deter improper practices between engineers inspections		
Revised	Planning Board review of applicable regulations	Planning Board	Maintain highest level of regulations		

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Review by town engineer	Town Engineering company	To ensure all structures were built and maintained to town standards		
Revised					
	Semi-annual cleaning of all structures	Highway Dept.	Reduces downstream contamination		
Revised					
	Fall clean-up of leaves at catch basins and culverts	Highway Dept.	Reduces blocked culverts and the erosion caused by blockages		
Revised					

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised	Household Hazardous Waste Collection 2 annually	Highway Dept.	Amount of hazardous waste collected		
Revised	Weekly collection of household waste	Highway Dept & Waste Management	Proper disposal of household waste	Waste Management	Waste Management
Revised	Outsourcing oil changes	All Dept.	Ensuring proper disposal	DH&DH, AC Tire, and C&D Auto	DH&DH, AC Tire, and C&D Auto
Revised	Proper measuring and application of road salt	Highway Dept.	Reduces amount of salt used to achieve safe roads	Ground Speed controls	
Revised	Proper storage of salt and clean-up after deliveries and storms	Highway Dept.	Reduces on-site contamination		
Revised	Semi-Annual cleaning of stormwater structures	Highway Dept.	Reduces downstream contamination		

6a. Additions

	Use of environmentally safe priming fluids in fire apparatus	Fire Dept.	Reduce petroleum products released on fire grounds		
	Atkinson recycling center	Highway Dept.	Added convenience for proper disposal of recyclable items (mixed paper, cardboard, commingled cans, metal goods, mercury devices, florescent light bulbs)		

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
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

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			99%
Estimated or actual number of outfalls			2,000
System-Wide mapping complete (complete storm sewer infrastructure)			99%
Mapping method(s)			
▪ Paper/Mylar	(%)		X
▪ CADD	(%)		
▪ GIS	(%)		
Outfalls inspected/screened **	(# or %)		75%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)		75%
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	(%)		0%
% of population on septic systems	(%)		100%

Construction

	(Preferred Units) Response	
Number of construction starts (>1-acre) **	(#)	7
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)	
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)	½ per year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	Every year
Qty of structures cleaned **	(#)	300 ±
Qty. of storm drain cleaned **	(%, LF or mi.)	600 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	40 Tons ±
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	71 Woodlock Park Lane

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

		(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **		(times/yr)	0
Average frequency of street sweeping (commercial/arterial or other critical streets) **		(times/yr)	0
Qty. of sand/debris collected by sweeping **		(lbs. or tons)	0
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **		(location)	N/A
Annual Sweeping Costs			
• Annual budget/expenditure (labor & equipment)**	(\$)		N/A
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)		N/A
• Disposal cost**	(\$)		N/A
Sweeping Equipment			
• Rotary brush street sweepers owned/leased	(#)		N/A
• Vacuum street sweepers owned/leased	(#)		N/A
• Vacuum street sweepers specified in contracts	(y/n)		N/A
• % Roads swept with rotary brush sweepers **	%		N/A
• % Roads swept with vacuum sweepers **	%		N/A

Reduction (since beginning of permit coverage) in application on public land of:
 (“N/A” = never used; “100%” = elimination)

▪ Fertilizers	(lbs. or %)	0 lbs
▪ Herbicides	(lbs. or %)	0 lbs
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Yes

(Preferred Units)		Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	100%
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% CaCl ₂	
	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	
	% Sand	0.5%
Pre-wetting techniques utilized **	(y/n or %)	0.5%
Manual control spreaders used **	(y/n or %)	Yes
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 same as last year
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	None same as last year
% 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	None
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	None
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	None

