

Municipality/Organization: Town of Newton, NH

EPA NPDES Permit Number: NHR041023

MassDEP Transmittal Number: W-

Annual Report Number Year 10
& Reporting Period: May 1, 2012 – April 30, 2013

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2013)

Part I. General Information

Contact Person: Nancy J. Wrigley Title: Town Administrator

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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: Raymond D. Thayer

Printed Name: Raymond D. Thayer, Chairman

Title: Selectman

Date: 04-29-13

Part II. Self-Assessment

The Town of Newton has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions. The Town of Newton continues to search for new ways to use social media in order to keep our residents informed in the Best Management Practices. We realize that the health of our ground water is of the upmost importance and we educate our residents using our cable channel, web site and Town events. We are a small town and still don't have a Highway Department, instead we have an elected, part time Road Agent and two part time road crew employees to work on roads, swales, culverts and catch basins. Of course this makes it difficult to repair and replace culverts and catch basins during the warm months. We have had weather related events that have damaged our roads and culverts; we make the required repairs to maintain our road network (adding water quality enhancements where possible) and continue to write grants to help fund in repairs and system upgrades. In November of 2009 a sand/salt shed was built, adjacent to the Transfer Station, (1,800 sq. ft., Arch Truss Roof with concrete foundation) to store sand and salt. Newton conservation Commission monitors areas of concern with regard to wetlands and dredge and fill permits and our Planning Board is very active in overseeing any active development projects to ensure erosion control measures are adequate. We schedule work groups to help remove rotted trees and debris from trails and wetlands, but our committee is made up of volunteers, so sometimes it is difficult to complete this task. Newton has been fortunate in having Boy Scouts that have done road side clean up on a couple of occasions during 2012.

Part III. Summary of Minimum Control Measures

The following table represents the Town of Newton's plan and best management practices. The Best Management Practices are still suitable for the Town. Our progress is described in Part III and summarized in Part IV. We are collecting information and analyzing ways to improve.

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 11
Revised	Bio-Monitor Day at Busch Farm w/Memorial School to teach children how to protect our water and what pollutants at home can cause unhealthy water	Conservation Commission	Annual Bio-monitoring day as worked well since 2010, although had to be canceled a couple years due to weather issues and Triple EEE threats in town.	This activity is scheduled in the spring of 2013.	We would like to try this again next year, and add a rain date.

Revised	General Public Education at the annual Family Fun Fair, using last years presentation on lap top and EPA bookmarks and DVD	Conservation Commission	The event was not held this year. We hope to have it in 2013	“After the Storm” laptop presentation to the public and hand outs were very successful in years past. This year we had a new Recreation Committee that decided not to host this event.	Conservation has encouraged it to happen again in 2013.
Revised	Con com produced a lap top presentation of conservation properties and how to protect wet lands	Conservation Commission	The school didn't plan this for this year.	Would like to work with school again to have this event. It was successful two years ago. .	Would like to have this as a yearly event.
Revised	Con com attended class on controlling Bacteria and Hydrocarbons in Storm water Run-offs with Smart Sponge	Conservation commission	Shared this with the road agent as another alternative for road run- off and has kept this info for future use.	Liked this concept and will pass on to developers and planning board and building department. Produced by Environmental Products and Systems	Kept this information on file for distribution when needed.
Revised	Manure Management Seminar for residents with small hobby/type residents with horses chickens etc.	Conservation commission	This was well attended event to education the small horse hobbyist. We continue to hand this out to home owners that need guidance.	This event was a great idea, but our cable TV network is not really user friendly. Northeast Recycling Council, Inc. gave us the information, but we couldn't get the word out efficiently. The plan is to hold this event again. Maybe as a yearly event. Need to better advertise it in hopes of getting more people to attend. Our cable channel committee is trying to get the equipment upgraded so we can do a better job of advertising this event	Plan this for next year 2013
Revised	Planning board is looking for options for community growth while working on BMP around wells, septic and wetlands	Planning Board	Working on ways to create vibrant village centers while still preserving open space.	Grant was accepted for the charrett. The planning board continues to refer to this as a guide.	Continue to use the plan to create village districts and enhancing open space at the same time.

1a. Additions

Hazardous Waste Day	Transfer Station manager	Warrant article passed by the residents. Held a Hazardous Waste day at the transfer station. Newton residents can bring items to transfer station for free	Very successful event. Safe Harbor was hired to run the day and receive, package and process the items residents brought.	This has been very successful and is planned in 2014.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 11
	Follow Town Policy for notice requirements during a public hearing that requires a storm water management plan. Developers and residents will be reminded of BMP	Planning Board	Observe requirements for the storm water management plan	Continue to educate the public on BMP for storm water management	Continue to follow requirements and public notice for these parcels.
Revised					
	General Public Laptop presentation to educate residents of healthy ground water around their home, as well as along the road and shoulder area.	Trisha McCarthy	To expose residents to as much education as possible, regarding our storm water management.	Conservation Commission completed site walks and did some clean up of trails along wetlands on the peanut trail and the Busch farm.	Would like to do this again next year. Many people have come forward saying they would participate in site walks. .
Revised					

	Transfer station was approved for a voucher system for 2012	Transfer Station Manager	Residents will be allowed to lease items at transfer station, in hopes this will prevent contaminated ground water run off.	People will not be charged for items brought to transfer station and will be allowed one truckload for the year. This will be easier for the employees to handle and will not put as much pressure on them by not having massive amounts of debris and rubbish in a concentrated period of time, since it can be spread out during the whole year.	We may continue to do this in years to follow as long as the funding is approved by the voters.
Revised					
	Stream Monitoring	Conservation Commission	School involvement	Boy scouts indicated they were interested in continuing this.	They hope to get this done for the next permit year.
Revised					
	Used Oil Collection Center	Transfer Station Manager	To encourage and educate the residents to bring their used oil to the transfer station.	Collected 1,775 gallons this permit year	Will continue to encourage and educate public on the proper transportation of oil to transfer station
Revised					
	Residents have requested a compost pile at the transfer station	Transfer Station Manager	Now allow residents to bring their leaves to the transfer station in an area that will be rotated for compost.	Have an area designated for residents to dispose of their leaves in the fall. Employees will turn over pile to make compost that residents can take for free.	Will continue this plan in next permit year. Residents seem excited about it.
Revised					

2a. Additions

	Residents				
	Auto batteries have been collected at the transfer station	Transfer Station Manager	Residents are encouraged to bring batteries to dispose of them at the transfer station.	This year we were able to dispose of batteries. Not sure of the amount. This will keep the batteries from ending up in our wetlands and road side.	We will continue to monitor this.

	Electronics are also being collected to the transfer station.	Transfer Station Manager	Residents are encouraged to dispose of their electronics. We have adopted a senior discount policy to help our seniors with a discount when they bring in items.	This year we were able to dispose of 105,340 lbs of electronics.	We will continue to monitor this.
	Florescent Lights are also an item being collected at the transfer station	Transfer Station Manager	Residents are encouraged to dispose of the florescent lights.	This year we were able to dispose of florescent lights. Not sure of the amt. The hope is this will keep them out of the woods and encourage residents to bring them to us to dispose of properly.	We will continue to monitor this
	Tires are also being brought to the transfer station.	Transfer Station Manager	Residents are encouraged to bring their tires to transfer station. If a tire is brought in on a rim we don't charge them, but without a rim, there is a small charge. We have adopted a senior discount policy to help our seniors with a discount when they bring in items.	We were able to dispose of 418 tires this year.	We will continue to monitor this.
	Transfer Station has petitioned state for State Form I-B allowing us a permit modification	Transfer Station Manager	This will allow us to receive, manage, transfer items that could damage the environment	This permit modification has just been requested.	We will continue with modification.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 11
	Map suspected areas	Road Agent	Map on file	Update yearly	We update yearly and review with selectmen

Revised					
	Inspections of culverts and catch basins	Road Agent	Regular report are completed and filed	Reports are on file with Road Agent	Continue reports and review and update as needed.
Revised					
	Aquifer Protection Ordinance	Planning Board & Conservation commission	Update as needed	Yearly review of ordinance with planning board and conservation commission	Continue review of ordinance
Revised					
	Wetland Zoning Ordinance and shoreline protection buffer	Planning Board & conservation commission	Update as needed	Yearly review of ordinance with planning board and conservation commission	Continue review of ordinance
Revised					
	Subdivision Regulations	Planning board and building department	Update as needed	Yearly review of regulation with building department and planning board	Continue reviewing regulations
Revised					
	Shoreland & Protection District & Regulations	Planning board & conservation commission	Update as needed	Review Shoreland Protection Act map of water bodies provided by the RPC	Continue reviewing regulation
Revised					

3a. Additions

	Replacement/repair Septic Systems	Health officer	Findings/Course of Action	Identified and repaired 11 new construction septic systems and 15 replacement/repair systems and 1 new commercial system.	Continue due diligence with replacement/repairs to failed septic systems
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	Yearly monitoring of groundwater quality at the Newton Landfill on Dugway Road	Town Administrator & Transfer station manager	Monitor the groundwater quality as outlined in the groundwater management permit issued in April 2002 by NHDES	Continue monitoring and report finding per the Groundwater Management Permit. Contract with R.W. Gillespie and Associates for this permit. Four monitoring wells in this area and all testing is fine.	Continue contracting with R.W. Gillespie and Associates, inc to continue monitoring the groundwater quality.
	Code Enforcement	Code Enforcement Officer	Handle complaints concerning junk yards and zoning violations	Code enforcement officer is assisting in junk-yard type areas in town and clean up for the protection of ground water run off	Continue inspections at these locations and site walks with the conservation commission
	Wetland Zoning Ordinance	Planning Board	Update as needed	Floodplain Development Ordinance amended to comply with National Flood Insurance Program	Update as needed

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 11
Revised	Subdivision regulations for both commercial and residential review	Planning board	Continue review and update zoning regulations	Working to update our ordinances and regulations according to legislative changes and suggestions made by our Rockingham Planning Commission. Code Enforcement Officer to assist in these inspections.	Continue review
Revised	Continue to work on Sediment Control	Road Agent, Planning Board, Building Dpt., and Conservation Commission	Regular inspections and corrective action when needed	Inspections are conducted by site walks from Planning Board, Conservation Commission, Town Engineer and Road Agent	Continue this practice

	Erosion Control	Planning Board, Building Dept, Conservation Commission	Inspections and site walks when needed	New construction/subdivision erosion control inspections are conducted when needed by town engineer, planning board, conservation commission.	Continue inspections
Revised					
	Natural resources and environmental protection	Planning board & conservation commission	Site inspections and corrective actions as needed	Earth excavation regulations developed to control erosion, sedimentation, water pollution, air pollution & human safety hazards	Review on a regular basis and label areas of concern
Revised					
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 11
	Revise existing Ordinances as needed	Planning board	Revise ordinance and work with conservation on updates	Continue inspections during and after project is complete	Continue to work with town engineer and Rockingham planning commission.
Revised					
	Catch Basins	Road Agent	Inventory catch basins	Keeping reports of catch basins	Add to the reports the amount of sediment removed from catch basins.

Revised		Planning Board	Have an engineering plan review after alteration of terrain	Town engineer authorized to study drainage issues and make recommendations that will reduce flooding.	Will continue to monitor sites for any further issues.
Revised	Run-off caused by alteration of terrain <i>This location is in good shape and has corrected the run-off</i>				
	Alteration of terrain by shoreline at Country Pond	Conservation commission	Resident requested permission to remove trees by water's edge; and another resident was constructing a retaining wall on Ridge Rd.	Conservation completed site walks at both locations and informed both residents that state permits would be required. Gave them the web site and a print out of regulation. Also gave them a copy of application.	Conservation Commission would like to find a way to distribute BMP around the water. Can't afford to mail to residents, so we may hand deliver. Will continue to work on this.
Revised	<i>Permits have been filed with DES</i>				
Revised					
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11

Revised	Catch basin clean up on a schedule throughout the year	Road Agent	Maintain according to BMP	Road crew has gone to training at the Annual convention storm water management.	Continue mapping catch basins and road crew will go to training when available.
Revised	Map outfalls/catch basins/culverts	Road Agent	Map on file	Road crew monitors, cleans and documents areas and work completed	Continue to monitor subject areas
Revised	Schedule maintenance on outfalls/catch basins/culverts	Road Agent	Schedule and log maintenance	Weekly reports outlined maintenance performed by the road crew. Wrote a Hazard Mitigation Plan with the Board of Selectmen.	Continue weekly reports.
Revised	Road Salt Reduction <i>Allowing residents to get sand at transfer station</i>	Road Agent Transfer station manager	Reduce salt on road during winter storms In hopes of preventing people from buying salt, we are giving them sand.	The road agent puts a 66 sand / 33 salt mixture on certain roads during winter storms. In early winter and at end of winter he generally uses straight sand.	Continue using reduced salt on certain roads during winter and no salt near shore land and wetlands.
Revised	Used Oil Collection Center	Transfer Station Manager	Continue to allow residents from Newton, East Kingston and South Hampton a place to recycle their used oil	Continue this program	Continue to education residents on the best management practices for delivering and transporting used oil to the Oil Collection Center.
Revised	Tires	Transfer station manager	To improve storage of tires taken into the transfer station in a proper building preventing run off	Tires are stored in one of the sheds on site and out of the weather.	

6a. Additions

	Sand & Salt Shed Built in November 2009	Road Agent	To store the town's sand and salt needed to treat the roads.		
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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable >> N/A for Newton

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Approximately 70 catch basins were cleaned by our Road Crew in Permit Year 10.

Approximately 9 culverts were replaced in Permit Year 10.

Approximately 1 box culverts was raised and replaced.

Approximately 50 storm drains were cleaned by Road Crew during Permit Year 10.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering May 1, 2012 through April 30, 2013)

Programmatic

	(Preferred Units) Response	
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures ** con com and road agent	(\$)	\$300.00
Total program expenditures since beginning of permit coverage	(\$)	\$4000.00
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 %)	70%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	½ mile
Shoreline cleaned since beginning of permit coverage	(mi.)	½ mile
Household Hazardous Waste Collection Days (warrant article approved in 2013)		
▪ days sponsored ** will be one day	(#)	2
▪ community participation ** conservation & volunteers working on plan	(# or %)	12
▪ material collected **	(tons or gal)	1800 tires
School curricula implemented	(y/n)	Y

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	(%)		40%
Estimated or actual number of outfalls	(#)		150
System-Wide mapping complete (complete storm sewer infrastructure)	(%)		100%
Mapping method(s)			
▪ Paper/Mylar	(%)		100%
▪ CADD	(%)		0%
▪ GIS	(%)		0%
Outfalls inspected/screened **	(# or %)		95%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)		95%
Illicit discharges identified **	(#)		0
Illicit discharges identified (Since beginning of permit coverage)	(#)		0
Illicit connections removed **	(#); and (est. gpd)		n/a
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)		n/a
% of population on sewer	(%)		0%
% of population on septic systems	(%)		100%

Construction

	(Preferred Units)		Response
Number of construction starts (>1-acre) **	(#)		16
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)		100%
Site inspections completed **	(# or %)		100%
Tickets/Stop work orders issued **	(# or %)		1
Fines collected **	(# and \$)		0
Complaints/concerns received from public **	(#)		22

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)	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)	1x per yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1x per yr
Qty of structures cleaned **	(#)	70
Qty. of storm drain cleaned **	(%, LF or mi.)	30
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	20 cubic yards
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Town Property

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment) **	(\$)	\$5000.
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$27.00 per hr
• Disposal cost **	(\$)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	n/a
• Vacuum truck(s) owned/leased	(#)	n/a
• Vacuum trucks specified in contracts (contracted outside company's truck)	(y/n)	1
• % Structures cleaned with clam shells **	(%)	30%
• % Structures cleaned with vacuor **	(%)	60%

(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	1
Qty. of sand/debris collected by sweeping **	n/a
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	n/a
Annual Sweeping Costs	
• Annual budget/expenditure (labor & equipment)**	n/a
• Hourly or lane mile contract rate **	n/a
• Disposal cost**	n/a
Sweeping Equipment	
• Rotary brush street sweepers owned/leased	0
• Vacuum street sweepers owned/leased	0
• Vacuum street sweepers specified in contracts	N
• % Roads swept with rotary brush sweepers **	0
• % 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 Imidacloprid -1 (6 applications per year)	(400 lbs) 2400
▪ Herbicides	(lbs. or %) n/a
▪ Pesticides	(lbs. or %) n/a
Integrated Pest Management (IPM) Practices Implemented	(y/n) N
Insecticides used for prevention of "Triple EEE"	
Altosid WSP EPA registration 2724-448: 1 pouch/135 sq. ft. (used in catch basins)	
VectoBac CG: EPA registration GS 73049-10: 6-10 lb.	
Agnique MMF: EPA registration 53263-28: 0.2-1.0 gal/acre (16oz)	
BVA-2 MLO: EPA registration 70589-1: 3-5 gal	
(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	33%	
	% CaCl ₂	0	
	% MgCl ₂	0	
	% CMA	0	
	% Kac	0	
	% KCl	0	
	% Sand	66%	
Pre-wetting techniques utilized **	(y/n or %)	n/a	
Manual control spreaders used **	(y/n or %)	100%	
Zero-velocity spreaders used **	(y/n or %)	n/a	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	200 ton	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	400 ton	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%	
Storage shed(s) in design or under construction	(y/n or #)	1	
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	0
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	n
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	n