

Municipality/Organization: TOWN OF Amherst, NH

EPA NPDES Permit Number: NHR41001

MassDEP Transmittal Number: W-

Annual Report Number
& Reporting Period: April 1, 2017 – March 31, 2018

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2018)**

Part I. General Information

Contact Person: SIMON CORSON Title: Planner

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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: 

Printed Name: James M. O'Mara, Jr.

Title: Town Administrator

Date: 2018.04.30

Part II. Self-Assessment

The Town of Amherst, New Hampshire has completed the required self-assessment and have determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	(Reliance on non-municipal partners indicated, if any)	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
1.1	Education signage at voting	Public Works	4'X4" information poster display for town voting.		Nothing new presented at voting		Nothing new presented at voting	Nothing new presented at voting
Revised	Education booth at 4 th of July festivities	Stormwater II committee	Brochures		Did not have available staff to perform this valuable function in 2014	Stormwater brochures are available for handout both at Town Hall and Public Works	Town Hall is used as a comfort station during 4 th of July festivities, educational handouts are available within the lobby	
1.2	Information posting on town web page	Public Works Director	Develop and update progress on town managed road construction projects	Actual posting of information on the town webpage completed by outside source.	Town webpage was updated	The town webpage was completely redone in 2015	A Stormwater section under DPW details Committee duties and assignments	Update Town webpage as appropriate.
Revised	Update as time allows	2005-Stormwater II Committee	Electronic exposure through education					
1.3	General Education Brochure	Public Works & Education Committee	Develop and distribute to residents in 04-05	This is in progress now, the committee is working through a lot of information, and brochures will be developed and disbursed.	Brochures from previous years were supplied to NH Department of Environmental Services. Brochures were also distributed to the following Amherst locations. Town Hall, Town Library, Public Works, & Peabody Mill Environmental Center	Brochures developed by Stormwater interns continue to be available at various town facilities	Second generation educational brochures were written during the summer of 2016 and are available both at DPW and Town Hall	Brochures developed by Stormwater interns continue to be available at various town facilities
1.4	Disburse Information to local contractors	Public Works Director and Land Use Manager	Educate private contractors in the importance of compliance	Verbal education at this point with compliance built into site plan	Contractor brochures are made available during permitting process at Community Development	Information continues to be available at the Community Development office for contractors throughout the town	As stated last year, education material is available for dissemination through the Community Development office	Education material is available for dissemination through the Community Development office during

				review and follow-up with onsite inspections.		permitting process	during site plan and building permit applications.	site plan and building permit applications.
1.5	Coordinate information and program distribution within school network	Public Works Director, Conservation Commission	Develop curriculum to educate students. Fall / winter 04-05	Integrate into program currently presented to grammar school students on solid waste.	Several years ago, Amherst participated (through funding) in a regional program which developed curriculum for High School Environmental classes			

1a. Additions

1.6	Transfer Station waste stream management	Public Works Director and Solid Waste Committee	Improve facility and educate taxpayers	In 2014 we generated Trash – 2,889.55 tons recycling - 831.09 tons	In 2015 we generated Trash – 2,775.01 tons recycling – 818.22 tons	In 2016 we generated Trash = 2,772.63 tons Recycling = 822.61 tons	In 2017 we generated Trash = 2640 tons Recycling = 788 tons
1.7	Series of articles written for Amherst Citizen. After being published the articles are posted on the town website	Committee Chair	Educate residents	Recycling & Trash tonnage by commodity is posted at the Transfer Station & updated yearly	A sign acquired through a grant from NH the Beautiful lists all types of recyclables collected in Amherst with space to fill in how many tons of each	Each year’s DPW section of its annual town report is dedicated to how residents can improve and/or reduce solid waste. Within town guidelines, information is also posted on the town’s webpage	DPW’s section in the annual town report includes information about how residents can improve and/or reduce solid waste. The report also references educational resources that can be found on the Nashua Regional Planning Commission’s webpage.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Initial Progress on Goal(s)	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
2.1	Stormwater Advisory Committee	Public Works Director and Road commissioners	Review and recommend improvements to SWMP	We are reviewing the initial report and are working on recommended improvements.	The advisory committee is monitoring the status of the pending permit and awaits its outcome		The town is going through its annual committee reappointments with special consideration being given to the new permit.	Amherst does not have an active Stormwater Advisory Committee at this time.
Revised 10/04		Representation from private sector and several town boards			The Public Works and Community Development directors participate in regional meetings both in Manchester and Nashua		The Public Works, Community Development, and Asst. Public Works Directors have attended regional Stormwater meetings	The Public Works Director, Public Works Deputy Director, Community Development Director, and Planner have attended regional Stormwater

								meetings.
2.2	Removal of potential septic hazards from Baboosic Lake	Town Administrator and Health Department	Move failed septic systems from selected summer homes to community septic system	Approval by town after public hearings, approval of additional outside funding, in the process of the bidding stage, anticipate implementation this year.	The town is in its tenth year of Baboosic Lake Septic with 44 homes participating in the program. Last March, voters approved the phasing of a new Stormwater/Baboosic Lake Septic position to pursue additional funding and expand the system	Baboosic Lake Community septic added one additional home to the system. This system is the most expensive non-tax supported program. The new Environmental Coordinator will be searching for new grant funding	The 45 homes on the Baboosic Lake septic system continues to positively impact water quality	The 45 homes on the Baboosic Lake septic system continues to positively impact water quality.
Revised 2.2			Bid out in 04 implement by 05					
2.3	Catch Basin Stenciling	Public Works	Stencil priority by August of 04	The town maintains under 350 catch basins. During our annual cleaning in July, DPW staff will mark as each is cleaned	The town is in its fifth year of road improvements including additional closed drainage systems. All existing basins are checked annually for decal condition and new basins are marked. Decals state "Only Let Rain, Down the Drain"	As part of our road reconstruction program closed drainage and new catch basins are being added yearly. We are now at 375 which are cleaned annually.	During road reconstruction, we added 14 additional catch basins to our closed drainage system bringing the total to 389 all of which were cleaned at least once in the 2016 season.	During road reconstruction, we added 52 additional catch basins to our closed draining system bringing the total to 441 all of which were cleaned at least once in the 2017 season.
2.4	HHW Collection Events	Public Works Director and Nashua Regional Planning Commission	Better participation	Currently, there are five sponsored regional collection events. The Amherst Solid Waste Committee is reviewing this program and investigating a local collection event.	Amherst participates in six scheduled regional hazardous waste collection events (5 in Nashua & one in Milford)	The Nashua Regional Planning Commission regional hazardous waste collection program has added one additional event. Amherst residents can choose any of three locations for the seven annual sponsored events	Amherst residents have the opportunity to attend any of the following regional Household Hazardous events. Nashua NH 4/22 – 6/1 – 8/5 – 10/7 and 11/4 Milford NH 5/6 Pelham NH 8/26	Amherst residents have the opportunity to attend any of the following regional Household Hazardous events. Nashua NH Department of Public Works (Nashua NH) 4/21/18, 8am-12pm Milford NH Department of Public Works (Milford NH) 5/5/18, 8am-12pm Nashua NH 6/7/18, 3pm-7pm Nashua NH 8/4/18, 8am-12pm Nashua NH 10/6/18, 8am-12pm

								Nashua NH 11/3/18, 8am-12pm
Revised							The Pelham event was added this year	
2.5	Education Committee	Public Works Director and Solid Waste task force committee	Booth at major events on the town common	An information booth manned by volunteers during events such as Fourth of July	Hazardous Waste is promoted through the community access channel, town webpage, and town report.	Counseling on hazardous waste alternatives is made available to residents	The Nashua Regional Household Hazardous Waste webpage provides education on ways to reduce the amount of HHW purchased www.nashuarpc.org/hhw	The Nashua Regional Household Hazardous Waste webpage provides education on ways to reduce the amount of HHW purchased www.nashuarpc.org/hhw
Revised		This process now includes the Stormwater II Committee	Information posted at SP-2 voting in March 04	Revised				

2a. Additions

2.6	Roadside Cleanup in conjunction with Earth Day	Beth Woodbury Environmental Teacher at Souhegan High School and Public Works	Remove trash and floatables from shoulders of town roads	We continue to work with and support the school volunteer roadside cleanup program	The Town of Amherst Department of Public Works supports volunteer roadside cleanup efforts.	Public Works supports volunteer organizations who organize cleanup efforts.	Public Works supports volunteer organizations who organize cleanup efforts.
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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
3.1	Identify and map outfalls and receiving waters	Public Works & Pennichuck Water Works	Map all outfalls using a footage measuring devise and transpose onto map. Review	All culverts and catch basins were marked with reflectors and delineator posts during fall 03.	By upgrading our electronic technology we have: Continued upgrading mapping Mapped potential IDDE location for review Added new map layer detailing	Amherst continues to identify and document any non-storm related water sources. Culvert locations (inlet & discharge) have been mapped.	DPW has identified and documented outfalls and receiving waters within the MS-4 boundaries	DPW has identified and documented outfalls and receiving waters within the MS-4 boundaries. DPW has reviewed the urbanized area referenced in the 2017 Small

			information supplied by Pennichuck	Additional DPW summer staff will start recording footage and relevant information and transpose it into data base and onto town tax map.	underground Stormwater pipe connections. Distinguished between town owned culverts and those that belong to homeowners (driveway culverts) Added a map layer displaying only culvert outfalls that dump directly into the Baboosic Lake and Souhegan River watersheds.			MS4 Stormwater Permit, and has prioritized the urbanized areas in Amherst.
Revised			Actual stenciling has not started yet, we plan it to start in summer 04		Stenciling is ongoing (yearly repairs)	Each basin is checked yearly and vinyl decals are replaced as needed	Catch basins are checked during annual cleaning and vinyl decals are replaced as needed	Catch basins are checked during annual cleaning and vinyl decals are replaced as needed
3.2	Dry weather screening of outfalls for illicit connections	Public Works	Screen all outfalls by Fall of 06	Continue field screening of outfalls concurrent with footage mapping by summer staff	Catch Basin and culverts are investigated for any water discharge during dry weather periods. Any water that runs during a dry weather period is investigated further.	Our septic connections at Baboosic Lake are ten years old or less and there are limited cross culverts. The balance of the town have individual septic systems.	Over ninety –nine percent of all septic’s in Amherst are single home systems. Cellar and perimeter drains are constantly monitored.	Over ninety –nine percent of all septic’s in Amherst are single home systems. Cellar and perimeter drains are constantly monitored.
Revised								
3.3	Illicit connection information	Planning Board	Bring information to the attention of Planning Board	Partner with the Amherst Planning Board with documented illicit connection discharges to formulate ordinance	No illicit discharges found to date	No illicit discharges found to date	No illicit discharges found to date	No illicit discharges found to date

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
4.1	Construction Storm Water	Planning Board & Public Works	Complete review of existing	Public Works has set the example by	The Amherst Community Development Director requests	Rules and regulations are in place to limit pre and post	Rules, regulations, and policies in place to limit pre and post	Rules, regulations, and policies in place to limit pre

	Pollution Prevention Plan	Director	construction site runoff control	implementing a Stormwater runoff control program for its own work.	Department Head plan review, and we have programs and policies in place to monitor new construction	construction runoff.	construction runoff	and post construction runoff
Revised		Amherst Planning Assistant						
4.2	Site plan review	Public Works Director, Planning Board, & Land use Manager	Take the process now in place (site plan review meeting) and put actions on paper	Create an interim policy from the site plan regulations that exist today.	Construction plans are forwarded by The Community Development Director for review prior to Planning Board meetings and approvals issued.	Department heads review site plans prior to approval by Planning Board	Subdivision regulations under rewrite review	Revised Subdivision Regulations have been adopted by the Planning Board.

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) – (Reliance on non-municipal partners indicated, if any)	Progress report on goals and activities for permit year 12 of 5 year permit 2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
5.1	Stormwater rules and regulations for sites over 43,560 square feet	Public Works, Engineering, Planning Board	Complete review of existing MS4 maintenance procedures. Complete formal procedures manual for conducting MS4 maintenance, include record keeping forms, best management practices, etc.	Start the review process with recommendations from public works and planning. Begin drafting rules and regulations to regulate post construction Stormwater management and illicit discharges.	Rules and regulations in place	Rules and regulations are in place	Rules and regulations in place but with the pending new permit they are under review	Draft stormwater regulations for Amherst were created and are now under review.
Revised			We have started slowly, this looks more like an 04-05 goal					
	Incorporate Best Management Practices into Town regulation Plan	Public Works Director, Planning Board, Town Counsel & Board of Selectmen	Complete update of Town's regulations to include Best Management Practices.	Review existing Master Plan and draft recommended changes	Town wide, adopted and implemented, for DPW, the following practices were reviewed; Winter sand storage, Salt storage, Inhibited liquid Calcium Chloride storage, Vehicle and equipment storage &	The Amherst Department of Public Works follows best management practices, stores its salt/sand mix under cover, manages its liquid deicer and is working within budget limitations to protect vehicles	Under review process	Under review process

					Stormwater maintenance.	and equipment from the elements.		
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6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
6.1	Document and Enhance Employee Training Procedures	Public Works Director	Complete review of existing programs and update of formal employee training manual	All employees are actively involved in UNH T-2 and Public Works Academy training. Department SOP's partially completed, plan to have first draft available for review by June 2004. SWMP in draft stage, train staff on content by July 04	Town staff attend Stormwater coalition meetings both in Nashua and Manchester Transfer Station employees attend annual certification classes Buildings and Grounds Foreman is licensed pesticide Supervisor Staff trained in Wastewater Public Works employees attend UNH training classes	The Amherst Public Works Director chairs the Nashua Stormwater coalition and attends Manchester Stormwater coalition meetings. We send employees to appropriate training and certification classes.	Done on an annual basis	Done on an annual basis
6.2	Evaluate the use of Pesticides, sand, and salt	Director of Public Works	Complete review of existing procedures. Write formal procedures manual for handling and using pesticides, sand, and salt	One employee is certified as pesticide supervisor. Within the last three years, we have integrated new technology to minimize the impact of salt and sand on roads.	Sanders are calibrated annually All vehicles are purchased with "groundspeed controls" to minimize waste Liquid deicer is used to lower melting temp & reduce wasted salt Soils are sampled prior to applying fertilizer or pesticides	Sanders are calibrated annually Taxpayers support purchasing appropriate add-on winter maintenance equipment to protect the environment.	The Town of Amherst invests in and upgrades vehicles and equipment with the best technology available to minimize salt and sand usage. Our on staff pesticide supervisor works with our Conservation Commission and NHDES prior to any pesticide usage	The Town of Amherst invests in and upgrades vehicles and equipment with the best technology available to minimize salt and sand usage. Our on staff pesticide supervisor works with our Conservation Commission and NHDES prior to any pesticide usage
Revised								
6.3	Catch basin cleaning	Director of Public Works	Clean every catch basin at least once a year	This practice started three summers ago, each and every catch	As of this writing, we have 372 catch basins which are cleaned annually and more often if needed.	395 catch basins are cleaned annually (more frequently if/when needed)	During road reconstruction, when appropriate, closed drainage replaces open drainage. We now clean 752	During road reconstruction, when appropriate, closed drainage replaces open drainage. We now clean 815

				basin is cleaned yearly or more frequently if needed.	Part of Amherst's road reconstruction program is to increase closed drainage and reduce erosion and runoff through drainage sumps		catch basins annually (more frequent if an when needed)	catch basins annually (more frequent if an when needed)
6.4	Street sweeping	Director of Public Works	Sweep winter debris from the streets	Existing policies account for approximately one quarter of the streets picked up each spring and the rest swept to the road edge and cleaned during a ten year ditching plan	The town does not own a sweeper and must sub that work out. Approximately 33.06 miles of 113 town road miles were picked up by mechanical sweeping.	All curbed streets, streets in the center of town, and streets around the lake are swept annually in May	All curbed streets, streets in the center of town, no salt sensitive areas, and roads around Baboosic Lake are swept annually in May.	All curbed streets, streets in the center of town, no salt sensitive areas, and roads around Baboosic Lake are swept annually in May.

Programmatic

	Measurable goal	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
Stormwater Management Position Created/staffed		Part-time summer interns (engineering students)	A Deputy Public Works director / Environmental Coordinators position has been funded and interviews are scheduled. Plan to continue with one intern this summer	The Deputy Public Works director's position was filled August 2016 and our attention to Stormwater detail has improved greatly. A summer Stormwater intern help wanted ad is posted	The Planner position was filled in January 2017 in the Community Development Department. In collaboration with the Director of Community Development and the Director and Deputy Director of the Public Works Department, the focus on Stormwater has improved and Amherst is currently preparing to comply for the 2017 Small MS4 Permit. An intern was hired and worked on water testing and culvert/catch basin cleaning during the summer months.
Annual program budget/ Expenditures	Secure funding	Wages - \$11,005 Projects - \$10,000	Wage - \$85,000 Projects - \$10,000	Wage - \$85,000+- Projects - \$10,000	Wage- \$85,000 Project- \$10,000

Education, Involvement, and Training

Estimated number of residents reached by	Measurable goal	Progress report on goals and activities for	This continues to be difficult to measure.	Approximately three quarters of town residents	This is difficult to quantify, but approximately 3,500 households	This is difficult to quantify, but approximately 3,500
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education program(s)		permit year 12 of 5 year permit (2014-15) (Reliance on non-municipal partners indicated, if any)	Training/teaching brochures are available at DPW & Town Hall	have cable access to community channel, balance can access webpage	have the ability to review programs	households have the ability to review programs
Stormwater management committee established			Established and awaiting new permit	Board of Selectmen are in the process of reappointing the Stormwater committee	Committee appointed and will expand as the new permit is implemented.	Amherst does not have an active Stormwater Advisory Committee at this time.
Stream teams established or supported			Summer Interns		Internal staffing	Internal staffing
Shoreline clean-up participation or quantity of shoreline miles cleaned						
Household Hazardous Waste Collection Days			Saturday April 18 th Saturday May 2 nd Thursday June 4 th Saturday Aug 1 st Saturday Oct 3 rd Saturday Nov 11 th	Saturday, April 23 rd Saturday, May 07 th Thursday, June 02 nd Saturday, August 06 th Saturday, October 01 st and Saturday, November 05 th	Saturday, April 22 nd Saturday, May 06 th Thursday, June 01 st (3PM – 7PM) Saturday, August 05 th Saturday, August 26 th Saturday, October 07 th Saturday, November 04 th	Saturday, April 21 st Saturday, May 5 th Thursday, June 7 th (3:00pm-7:00pm Milford Public Works) Saturday, August 4 th Saturday, October 6 th Saturday, November 3 rd
▪ days sponsored			Six Regional	Six regional (7 events)	Seven regional (7 events)	Six regional (6 events)
▪ community participation			86 homes	116 homes represented	154 Amherst homes represented	134 households participated in Household Hazardous Waste collection program
▪ material collected			4,862 lbs.	5,824 lbs.	7,294 Lbs.	6,346 Lbs.
School curricula implemented			Grammar and High School		Grammar, High School, & Peabody Mill Environmental Center	Grammar, High School, & Peabody Mill Environmental Center

Legal/Regulatory

	In place Phase II	Review	Prior to draft	Under adoption	
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

	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
Outfall mapping complete	Yes	Yes	Yes	Yes
Estimated or actual number of outfalls	572+-	572+-	572+-	572+-
System-Wide mapping complete	Yes and updated yearly	Yes and updated yearly	Yes and tweaked or updated yearly	Yes and updated regularly.
Mapping method(s)				
▪ Paper/Mylar	Paper & GIS	Paper & GIS	Paper and GIS	Paper and GIS.
▪ CADD				
▪ GIS				
Outfalls inspected/screened	Yes	Yes	Yes	Yes
Illicit discharges identified	None	None	None	None
Illicit connections removed	None	None	None	None
% of population on sewer	0.003520%	0.003520%	0.003525%	0.003525%
% of population on septic systems	99.9965%	99.9965%	99.9960%	99.9960%

Construction

Number of construction starts (>1-acre)	April 2014 to present - ONE	April 2015 to present - ONE	April 2016 to present -	April 2017 to present -
Estimated percentage of construction starts adequately regulated for erosion and	100%	0	1	100%

sediment control				
Site inspections completed	1	0	0	0
Tickets/Stop work orders issued	0	0	0	0
Fines collected	0	0	0	0
Complaints/concerns received from public	0	0	0	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction Stormwater control	100%	100%	100%	100%
Site inspections completed	Inspections are conducted regularly by town employees and contracted engineering firm	0	1	0
Estimated volume of Stormwater recharged		0	0	0

Operations and Maintenance

	Progress report on goals and activities for permit year 12 of 5 year permit (2014-15)	Progress report on goals and activities for permit year 13 of 5 year permit (2015-16)	Progress report on goals and activities for permit year 14 of 5 year permit (2016-17)	Progress report on goals and activities for permit year 15 of 5 year permit (2017-18)
Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	Once annually in July, additional cleanings as needed	Once annually in July, additional cleaning as needed	Once annually in July, additional cleanings as needed.	Once annually in July, additional cleanings as needed.
Average frequency of catch basin cleaning (commercial/arterial or other)	One time per year	Once per year	Annually	Annually

critical streets)				
Total number of structures cleaned	372	395	752	815
Storm drain cleaned	Yes as needed	Yes as needed	Yes, as needed	Yes, as needed
Qty. of screenings/debris removed from storm sewer infrastructure	285 cubic yards estimated	262 cubic yards estimated	305 estimated cubic yards (estimated)	315 estimated cubic yards (estimated)
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Recycled after material testing	Recycled after material testing	Recycled after material testing	Recycled after material testing
Cost of screenings disposal	\$220	\$220	\$240	\$240
Average frequency of street sweeping (non-commercial/non-arterial streets)	Once annually in April or May by private contractor	Once annually in April or May by private contractor	Once annually usually in April or May (private contractor through competitive bid)	Once annually usually in April or May (private contractor through competitive bid)
Average frequency of street sweeping (commercial/arterial or other critical streets)	Once annually in April or May by private contractor	Once annually in April or May by private contractor	Once annually usually in April or May (private contractor through competitive bid)	Once annually usually in April or May (private contractor through competitive bid)
Qty. of sand/debris collected by sweeping	Less than 1,000 yards	Approximately 1,000 yards annually	Approximately 1,000 cu. Yds. annually	Approximately 1,000 cu. Yds. annually
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Beneficial use	Beneficial use	Beneficial use (after testing)	Beneficial use
Cost of sweepings disposal	\$15,922.50	\$11,648	\$5,605	\$11,450
Vacuum street sweepers purchased/leased	Capital Improvement Plan does not support purchase at this time	No	No, hired out	No
Vacuum street sweepers specified in contracts	High reach broom type with high dumping reach as defined in NHDOT state contract,	No, broom sweepers are used under state bid contracts	No	No
Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)				
▪ Fertilizers	Soil tested prior to application		Soil tested prior to application	Soil tested prior to application
▪ Herbicides	Soil tested prior to application		Soil tested prior to application	Soil tested prior to application
▪ Pesticides	Soil tested prior to application		Soil tested prior to application	Soil tested prior to application

	Winter of 2014-15	Winter of 2014-15	Winter of 2015-16	Winter of 2016-17
Anti-/De-Icing products and ratios Except for 16 “no salt roads” all paved roads are treated with a 50/50 mix. Almost all equipment has ground speed controls, and pre-wetting tanks and two small trucks are equipped with straight liquid deicing (50% mag chloride). All dirt roads are treated one hundred percent with sand.	50% NaCl 00% CaCl2 13% MgCl2 0.0%CMA 0.0%Kce 0.0KCL 50% salt	50% NaCl 00% CaCl2 13% MgCl2 0.0%CMA 0.0%Kce 0.0KCL 50% salt	50% NaCl 00% CaCl2 13% MgCl2 0.0%CMA 0.0%Kce 0.0KCL 50% sand	50% NaCl 00% CaCl2 13% MgCl2 0.0%CMA 0.0%Kce 0.0KCL 50% sand
Pre-wetting techniques utilized	Yes	Pre-wetting on board and part of sanders	Yes, pre-wetting systems on each sander which pre-wets salt/sand mix during spreading	Yes, pre-wetting systems on each sander which pre-wets salt/sand mix during spreading
Manual control spreaders used	Yes – five	Yes- 3	Five	Yes-Five
Automatic or Zero-velocity spreaders used	Yes – Nine	Yes - 11	Yes - nine	Yes- nine
Estimated net reduction in typical year salt application	All sanders are calibrated to minimize the use of salt and onboard liquid deicers are used to pre-wet salt/sand mix to lower melting temperature. Each year approximately five miles of road are reconstructed. A smooth flat road scrapes cleaner using less deicers	All sanders are calibrated yearly to minimize the use of salt and onboard liquid deicers are used to pre-wet salt/sand mix to lower melting temperature and minimize wasting salt . Each year approximately five miles of road are reconstructed. A smooth flat road scrapes cleaner using less deicers	Sanders are calibrated yearly, On board groundspeed controls and liquid deicing “pre-wet” systems lower melting temperature and minimize salt waste. Over the last seven years, the town has reconstructed approximately forty miles of roads which requires less treatment to scrape clean.	Sanders are calibrated yearly, On board groundspeed controls and liquid deicing “pre-wet” systems lower melting temperature and minimize salt waste. Over the last seven years, the town has reconstructed approximately forty miles of roads which requires less treatment to scrape clean.
Salt pile covered in storage shed	Yes	Yes	Salt stored in a building and replenished often	Salt stored in a building and replenished often
Storage shed(s) in design or under construction	Not at this time	No	The shed is undersized but there are no strategic plans to change our current system	The shed is undersized but there are no strategic plans to change our current system