

Municipality/Organization: Town of Danville

EPA NPDES Permit Number: NHR041004

MassDEP Transmittal Number: N/A

**Annual Report Number
& Reporting Period: No. 13: May 1, 2015-April 30, 2016**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

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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: Shawn P. O'Neil

Title: Chair, Board of Selectmen

Date: 4/29/2016

Part II. Self-Assessment

The Town of Danville, NH has continued to meet the NPDES Phase II Small MS4 General Permit requirements during the 2015-2016 reporting period.

The Danville Highway Department has continued its work on the public education and outreach program by regularly distributing brochures and flyers to Town residents and providing them at several local venues. Posters at the same locations promote public participation events, such as the Earth Day cleanup and semi-annual Household Hazardous Waste (HHW) events. Flyers are also sent home with all 270 Danville schoolchildren to advertise the HHW events. Newspaper articles are periodically published to advertise public participation opportunities, and to update on the success of the same events. The Town's "Stormwater Management" page on the Town's website was periodically updated to advertise upcoming events, as well as provide relevant stormwater information to residents. A stormwater education program for elementary school grade three was continued during the school year, and Earth Day outreach materials expanded to include books for the preschool and library. The Town participated in the 12th annual roadside cleanup this year as part of the annual Earth Day weekend events.

Danville again participated in two HHW collection days with five other local towns (Plaistow, Atkinson, Hampstead, Chester, and Kingston). Two local HHW collection days were held during Permit Year 13, both of which were open to Danville residents. All events were advertised in the newspaper, in flyers, on the Town Hall sign, and on the Town's website.

The Highway Department continued coordination efforts with local committees and Town departments to address Stormwater Management. The Highway Department regularly meets with the Selectmen and Budget Committee to provide an update on the progress of the Town's stormwater management program. The Planning Board approved a construction site stormwater and post-construction stormwater management ordinance in December 2010 to address construction site stormwater runoff. An Illicit Discharge Detection and Elimination (IDDE) regulation was enacted by the Selectmen in January 2015.

The Town's consultant prepared a written Illicit Discharge Detection and Elimination Plan during Permit Year 9, which in part prioritizes IDDE activities and subwatershed areas, documents procedures to identify illicit discharges, and outlines how to remove an illicit discharge if found. The plan was further updated in Permit Years 10 and 11 to include classifying and prioritizing catchments as outlined in the draft Phase II permit. The plan also documents how the town monitors for illicit discharges and all monitoring activities performed to date.

During Permit Year 10, the Town's consultant prepared a written Stormwater Management Plan with a focus on documenting all Phase II stormwater efforts performed to date. In part, the written Plan provides background town characteristics, characterizes and prioritizes the Town into five subwatersheds for implementation of Phase II activities, and provides an in-depth look at the six minimum measures performed to date and future measures to be undertaken by Danville.

The storm drain system mapping was completed for the entire Town during previous permit years. All known catch basins, outlets and culverts were located via GPS and recorded on a GIS base map. The map was updated during Permit Year 11 to include watersheds within the town, outfall catchment delineation, classification and prioritization based on the draft Phase II permit. Outfalls were inspected during previous permit years for structural integrity and monitored for possible illicit discharges. Dry weather flows found at three outfalls were previously sampled for water quality parameters, including e.coli bacteria, ammonia, chlorine, pH, conductivity, total dissolved solids, and temperature. Results were in line with normal background conditions indicating no obvious source of illicit discharge.

The Highway Department continued to follow up on developments (>1 acres) in the Town that are required to file a Notice of Intent (NOI) and regularly checked the EPA website for confirmation. All driveway permit applications were also reviewed.

The Town incorporated previously developed Standard Operating Procedures (SOPs) for catch basin, outfall and BMP maintenance and repair into a comprehensive Infrastructure Operation and Maintenance Plan during Permit Year 12. This plan addresses an operation and maintenance program for use by the town, covering street sweeping, catch basin cleaning, street wastes storage, catch basin and outfall inspection, maintenance and repair, and winter plowing, snow removal, and sand/salt storage operations. Additionally, the O&M Plan covers spill prevention, response and reporting for applicable oil storage areas in Town.

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
1A Revised	Elementary School Education Program	Highway, Other Department Highway, Other Department and Consultant	Conduct annual activities for children. Conduct annual activities for at least one grade of schoolchildren in grades 1 through 5.	Utilized the Elementary School classroom education program developed during Permit Year 7. The program was designed for use during the students' "Water" unit, focusing on water quality and related stormwater impacts. The school used the materials to teach approximately 53 students in grade 3 during Permit Year 13. Additionally, a box of stormwater materials was provided to the preschool, as well as 2 books on Earth Day and recycling. 2 additional books were purchased for the public library to use around Earth Day during reading events. Materials for the classroom curriculum were replenished during Permit Year 13.	Continue to utilize stormwater education curriculum and materials at the Elementary School for grades one through four, anticipated to occur during May 2016. Replace used books, beads, etc. with new materials as needed to continue the program. Provide additional stormwater-related materials to the preschool.
1B Revised	Attend Meetings	All Departments	Hold and attend town committee meetings.	The Highway Department met with Town Selectmen in the fall of 2015 and spring of 2016 to discuss the stormwater program and budget. Selectmen were briefed on progress made to date, as well as upcoming work.	Continue to report on program progress at these meetings and discuss the next steps for the program. Coordinate with other departments as needed. Continue to discuss compliance issues with the upcoming permit.

1a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
1C	General Education: Brochures, Flyers & Posters	Highway	Public distribution, # of brochures taken, # flyers mailed, and # places poster displayed.	The Highway Department provides flyers on proper disposal of hazardous waste, reducing stormwater pollution, pet waste disposal, and procedures for latex paint disposal. The above flyers, as well as additional information on the annual HHW and Earth Day events are made available in the Town Hall, public library and Danville Market. Flyers advertising the spring and fall HHW events and the Earth Day roadside cleanup were sent home with approximately 270 Danville schoolchildren to be given to parents. Approximately 1,000 flyers were also included in the spring and fall 2015 tax bills. 224 and 439 flyers were distributed at the spring and fall HHW events, respectively. The Highway Department created three posters which were displayed in the Town Hall, public library and Danville Market to advertise the Earth Day event on April 23 and 24, 2016, and provided flyers to residents. 21 tote bags with stormwater-related information were provided to participants, including information on fertilizer and HHW collection information, as well as a pot with soil and seeds to plant. The Fire Department collected used oil from residents during business hours for their waste oil burner, with approximately 700 to 1000 gallons	Continue as in past years to publish brochures, bookmarks and flyers. Continue to create posters to hang in public places advertising upcoming participation events such as the HHW and Earth Day events. Continue to publish newspaper articles to advertise town events and report on their success. Track participation in events to determine effectiveness of the flyers. Future flyers and news articles will also include information on septic system maintenance. Incorporate additional stormwater education opportunities through other community service events such as participation in Household Hazardous Waste Collection and Earth Day events.
Revised			Reach as many people in Town as possible via distribution of public education materials. Track the number, frequency and avenues of public information delivery.		

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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
1C				(continued) collected during 2015. This program was advertised on the Town website, report, and in flyers mailed with the tax bill and distributed at HHW events. The Fire Department will also collect sharps found along the roadside if requested by residents or other town employees.	
1D	Post Information on Town Website	Highway, Web Committee	Increased hits to the website.	Maintained and updated a dedicated “Stormwater Management” page on the Town website. The page provides information on upcoming participation programs, including the annual Earth Day roadside cleanup events and Household Hazardous Waste days. The website is periodically updated to include household participation in the previous HHW event and an advertisement regarding the next event. The site provides information on proper fertilizing, composting, and pesticide usage in residential settings. The site also addresses proper disposal of household wastes and pet waste to reduce potential pollution. Finally, the site invites residents to watch for potential illicit discharges and provides the Highway Department telephone number as contact information. The Town recently contracted with a new web hosting company and now has the ability to update web content in-house.	The “Stormwater Management” page will be updated with additional information and links periodically. The Town will also seek to add a hit counter to track hits on the “Stormwater Management” page.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2A	Develop News Articles	Highway, Other Department	Track number of articles and volunteers. Coordinate with BMPs 2C and 2D.	One newspaper article was published during the spring of 2015 detailing the success of the 2015 Earth Day Roadside Cleanup event. Two additional articles were published on October 22, 2015 and April 21, 2016 to advertise HHW events: Plaistow on May 16, 2015 and Hampstead on October 24, 2015 as outlined in BMP 2D. HHW events were also advertised on the sign outside town hall. An Earth Day announcement was also published in the local paper on April 14 th and 21 st , 2016. An article regarding stormwater, hazardous waste and Earth Day was published in the 2015 Town Report. Finally, an article on the Earth Day roadside cleanup and HHW events were published in the spring 2015 newsletter, followed by a fall 2015 newsletter with information on proper pet waste disposal.	Continue to publish news articles advertising HHW events and the Earth Day roadside cleanup. Work on developing additional news articles as appropriate and track public involvement at events. Future news articles may also include information on septic system maintenance.
Revised			Track articles published. Coordinate with BMPs 2C and 2D. Publish results/information on collection events.		
2B	Meetings	All Departments	Meet within other Town departments. Set up meetings with other towns.	The Town coordinates with Plaistow, Atkinson, Chester, Hampstead and Kingston to plan the semi-annual Household Hazardous Waste events. Plaistow hosted the May 16, 2015 HHW event and Hampstead hosted the October 24, 2015 HHW event as outlined under BMP 2D. Danville also coordinates with the Southeast Watershed Alliance and the Seacoast Stormwater Coalition on improving water quality within costal waterbodies, particularly on ways to reduce nitrogen loads to Great Bay.	Meet with other towns to coordinate the HHW days, as necessary. Continue to look for opportunities to meet with organizations within the town to provide education opportunities.
Revised			Meet with other towns and organizations at least annually.		

2a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2C	Roadside Cleanups	Highway, Other Department	Annual cleanup held and amount of trash collected.	Roadside cleanups and cleanups of town properties were held on April 23 and 24, 2016 in coordination with Earth Day. Prior to the event, 125 trash bags were distributed to residents for cleanup purposes at different places in town. Highway personnel met with approximately 21 adult volunteers and 11 children volunteers for trash bag pickup at the Community Center parking lot on April 23. These residents collected 87 bags of trash, one tire, and other miscellaneous debris. 21 residents were also given tote bags containing stormwater informational brochures as outlined in BMP 1C. Posters and a display were also created to advertise the events as outlined in BMP 1C. Additionally, the event was advertised on the Town website, Facebook Community Page, and town hall sign in advance of the cleanup. An additional cleanup was performed in an area of the town forest during June 2015. 8 to 12 bags worth of trash and other debris was removed from this area. Also starting during Permit Year 10, residents may pick up a trash bag at any time at the Town Hall to fill with roadside trash as part of the “Keep Danville Clean” program. When the bag is full, the resident will call the Highway Department to collect it. As part of this program, 10 bags of trash	Continue roadside cleanups for Earth Day weekend. Continue the “Keep Danville Clean” program. Distribute more information on the Earth Day weekend at the Community Center parking lot. Track volunteer participation.
Revised			Host at least one annual cleanup event. Track the number of volunteers and amount of trash collected.		

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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2C				<i>(continued)</i> were collected during the previous permit year in addition to those collected during the Earth Day event.	
2D	Household Hazardous Waste Collection Event	Highway, Other Department	Participate with other communities on semiannual collection and track resident participation.	Participated with the Towns of Plaistow, Atkinson, Hampstead, Chester, and Kingston in the semiannual Household Hazardous Waste events. Plaistow hosted the May 16, 2015 event while Hampstead hosted the October 24, 2015 event. Approximately 224 people attended the spring 2015 event, 27 of which were Danville households resulting in a 12% participation rate. Approximately 439 people attended the fall 2015 event, 35 of which were Danville households resulting in an 8% participation rate. The Highway Department assisted at pickup events and collected survey forms to document participation. The Danville Highway Department also distributed flyers to all participants at the October 2015 events as outlined in BMP 1C.	Continue to participate in both events, currently scheduled to be hosted by Plaistow and Chester in April 30, 2016 and October 2016, respectively. Due to scheduling idiosyncrasies, the April event will be held during Permit Year 13 rather than Year 14. Track town resident participation and waste disposal quantities.
Revised			Participate with other communities on semiannual collection and track resident participation. Host HHW events as needed.		
2E	Catch Basin and Culvert Marking Program	Highway, Other Department	# volunteers, 25% marked each year.	The Highway Department has decided not to use volunteers and instead perform this task internally. All catch basins (26 total) and culverts were marked during previous permit years with stenciled arrows to easily locate structures when covered with water, snow, or debris. All fading stencils were remarked during Permit Year 13.	Maintain and repaint faded stencils and mark new structures as constructed in the Town.
Revised			Track the number of catch basins marked by Town.		

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
3A	Map Culverts	Highway and Consultant	Locate all culverts and drainage systems within the Urbanized Area (UA). Generate system base map.	The Town has completed GPS mapping of known stormwater infrastructure within Town boundaries. Information was incorporated into a detailed map for both UA and non-urban areas, showing the locations of all known culverts, catch basins, outfalls, and other stormwater structures. A total of 84 outfalls have been located to date and have been mapped with unique identifiers. Furthermore, a database was developed to track each outfall.	Continue to add additional drainage features, including catch basins, manholes, outfalls, pipes, conveyances, stormwater BMPs, etc. as they are constructed in Town.
Revised	Create a Storm System Map		Locate all culverts and drainage systems. Generate system base map.		
3B	Driveway Permits	Highway and Consultant	Update driveway permits.	Permits are required for the construction of a driveway onto a town right-of-way, particularly when a culvert must be constructed to accommodate street drainage. The Town received several applications during the Year 13 reporting cycle. The Town reviewed all applications and performed inspections as needed.	Review all driveway permits for appropriate stormwater controls. Continue to update driveway permits to include additional stormwater information as necessary and outline maintenance needs.
Revised		Highway	Update driveway permits and track number of permits.		
3C	Outfall Screening for Illicit Discharges	Highway	Locate and determine illicit discharges. # of outfalls screened, samples collected.	The Town evaluated stormwater outfalls during dry weather for evidence of illicit discharges. 100% of the Town's drainage system was inspected as of the end of Permit Year 6. 4 dry weather flows were sampled and no illicit discharges were identified. During Permit Year 11, one illicit discharge due to a failed septic system was reported to the Board of Health (BoH) as per in BMP 4C. The BoH met with the homeowner in Year 11, and the system was replaced during Year 12. No new illicit discharges were reported during Year 13.	Continue to monitor and inspect outfalls and catch basins during routine inspections. If present, analyze dry weather flows from outfalls not previously sampled. Once the new permit is released, work towards performing updated dry weather sampling and catchment investigations as required.
Revised					

3a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
3D	Develop an Illicit Discharge Prohibition Ordinance	All Town Departments and Consultant	Ways to effectively prohibit discharges. Present ordinance at public meeting in 2009.	The Town passed an IDDE Regulation ordinance in January 2015 prohibiting non-stormwater discharges to the Town's MS4. The ordinance is now effect and being enforced.	Continue to enforce the IDDE Regulation approved during Permit Year 12. Once the new permit is released, update the regulation as necessary.
Revised	Develop an Illicit Discharge Prohibition Regulation	Town Selectmen, Highway Department, and Consultant	Regulation to effectively prohibit discharges.		
3E	Develop an IDDE Plan	Highway and Consultant	SOP in place by end of Permit Year 5.	The prepared a written IDDE plan during Permit Year 9 and updated it during Permit Years 10 and 11. The original plan prioritized IDDE activities and subwatershed areas, documented procedures to identify illicit discharges, and outlined how to remove an illicit discharge if found. The plan also documents illicit discharge activities performed to date. Updates classified and prioritized catchments as outlined in the draft Phase II permit. Highway staff was made aware of existing SOPs for catch basin and outfall inspection which were used during inspection and maintenance activities.	Continue to monitor and inspect outfalls and catch basins. Utilize SOPs during all applicable Highway operations and record inspection events on log sheets. Update the IDDE plan as needed once the new Phase II permit is released.
Revised	Develop an IDDE Plan and inspection SOPs		IDDE Plan and SOPs in place for use by the Highway Department.		
3F	Incorporate Illicit Discharge Information into Public Education BMPs	Highway	IDDE information in public education BMPs annually.	The Town reviewed results of past IDDE activities and reviewed ways to make this information available to the public. A map of the stormwater structures prepared under BMP 3A was left at the Town Hall for interested residents to review. The spring newsletter and other publications also included information on illicit discharges, detection and elimination.	Evaluate additional options for incorporating IDDE results on the website or other public areas as outlined under BMP 1D. Future flyers and news articles may also include information on septic system maintenance as outlined under BMP 1C.
Revised			Distribute information on IDDE to residents annually.		

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
4A	Ordinances	Planning, Town Engineer, and Consultant	Ordinances to address construction issues.	The Planning Board enacted a construction site stormwater runoff control ordinance in December 2010 requiring construction projects to address construction site stormwater runoff. The ordinance is in effect and being enforced.	Continue to enforce the construction site stormwater runoff control ordinance approved during Permit Year 8. Once the new permit is released, update the ordinance as necessary.
Revised		Planning Board, Highway Department, and Consultant	Ordinances to address construction site stormwater runoff.		

4a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
4B	Review of Construction Sites	Highway and Building Inspector	Enforce NOI's and need for NOI's.	Inspected previous construction sites and advised developers on what was needed to maintain erosion and sediment controls. Reviewed and inspected driveway permits in conjunction with BMP 3B. The Highway Department conducted inspections of individual house lot construction during routine operations. There were no new large-scale commercial or residential subdivision construction project starts during Permit Year 13.	Continue to be proactive in the inspection of developments that are required to file a NOI and enforce construction site runoff controls. As of April 2016, there are no large construction projects currently ongoing. A large residential subdivision is expected to commence during the summer of 2016, consisting of approximately 28 houses. When the new permit is released, establish procedures for site plan review.
Revised	Review of Construction Sites and Driveway Permits		Review all driveway permit applications		
4D	Develop and Implement a Construction Site Inspection Program	Highway and Planning	Standardized form & record of inspections/follow-up actions.	As outlined under BMP 4B, there are no large ongoing construction projects. Due to the historic lack of large construction projects in town, the Highway Department will not develop a standardized inspection program. The department will continue to document all findings and address any deficiencies.	Once the new permit is released, establish procedures for inspections, requirements to control site wastes, and track the results of inspections.
Revised					

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
5A	Ordinances	Highway, Planning and Town Engineer	Set up and create ordinances. Ordinance at Public Meeting in 2009.	The Planning Board enacted a post-construction stormwater management ordinance in December 2010 requiring construction projects to address construction site stormwater runoff. The ordinance is in effect and being enforced.	Continue to enforce the construction stormwater management ordinance approved during Permit Year 8. Once the new permit is released, update the ordinance as necessary.
Revised		Planning Board, Highway Department, and Consultant	Ordinances to address post-construction stormwater management.		
5B	Routine Maintenance	Highway	Maintain culverts and general maintenances. Records of inspections and maintenance.	Monitored culverts and catch basins for blockages, especially before and during heavy storm events. Inspections were performed to check for excess sediment accumulation and ensure proper function. Removed blockages and repaired washouts as needed.	Continue to check all catch basins and culverts, and maintain as needed. Follow SOPs for maintenance/repair of outfalls. Record activities and incorporate into Control Measure 6.
Revised					

5a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
5C	Subdivision Review	Highway and Building Inspector	Developer's compliance, record of plan review.	No new subdivision construction starts were initiated during Permit Year 13.	Inspect developments to ensure all stormwater control measures are in place after construction. Encourage construction of BMPs that meet water quality criteria. One large subdivision is expected to begin during the summer of 2016, consisting of approximately 28 houses.
Revised					

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6A	Employee Training	Highway, Town Engineer and Consultant	Meet with all departments to establish what needs to be done. Record # of staff trained, types of training.	Reviewed existing training efforts for good housekeeping. Conducted a stormwater training session with Highway employees in October 2015 and during ongoing operations. Training also includes review of SOPs for catch basin, outfall and BMP maintenance and repair.	Continue to conduct informal training with Highway Department employees to cover stormwater operation and maintenance procedures.
Revised		Highway and Consultant	Annually train employees responsible for stormwater system operation and maintenance		

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6B	Clean Up Day	Highway, Forestry	Town roadways cleaned up from trash.	The Highway Department held its 12 th Annual Town Wide Roadside Cleanup event on April 23 and 24, 2016 in conjunction with Earth Day the following week. Approximately 87 bags of trash, one tire, and other miscellaneous debris was collected by volunteers as outlined in BMP 2C.	Continue holding the annual Earth Day roadside cleanup. Partner with additional groups, such as the Boy Scouts or Girl Scouts to increase participation. Publish newspaper articles advertising the event and discussing cleanup success.
Revised			Town roadways and forests cleaned of trash at least annually		
6C	Water Testing	Highway and Consultant	Water testing of drainage outfalls. Record # of samples collected and results.	Dry weather sampling was performed on three outfalls (four flows) and results were documented and recorded in a report prepared by the Town's consultant during Permit Year 6. None of the results violated water quality standards or indicated that an illicit discharge might be present.	Continue to monitor outfalls and perform testing if a suspect discharge is found. Respond to any illicit discharge complaints received by the Highway Department.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6D	Household Hazardous Waste Cleanup Days	Highway	Assist with semi-annual household hazardous waste drop-off days.	As discussed in BMP 2D, Danville participated with the Towns of Plaistow, Atkinson, Hampstead, Chester, and Kingston in the semiannual HHW events. Plaistow hosted the May 16, 2015 event while Hampstead hosted the October 24, 2015 event. Approximately 224 people attended the spring 2015 event, 27 of which were Danville households resulting in a 12% participation rate. Approximately 439 people attended the fall 2015 event, 35 of which were Danville households resulting in an 8% participation rate. The Highway Department assisted at pickup events and collected survey forms to document participation. The Danville Highway Department also distributed flyers to all participants at the October 2015 events as outlined in BMP 1C.	Continue to participate in both events, currently scheduled to be hosted by Plaistow and Chester in April 30, 2016 and October 2016, respectively. Due to scheduling idiosyncrasies, the April event will be held during Permit Year 13 rather than Year 14. Track town resident participation and waste disposal quantities.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6E	Evaluate Municipal Facilities and Operations & Develop BMPs	Highway and Consultant	Inspection results and BMPs.	The Highway Department is in the process of adding funds to a capital reserve fund for construction of a new salt shed within indoor loading capabilities. A total of \$200,000 has been deposited out of a goal of \$260,000. An existing floor drain at the Fire Department garage was disconnected from the MS4 and connected to a 2,000-gallon tight tank. During preparation of the Town's written SWMP during the previous permit year, five municipal buildings were inspected to evaluate storage practices and determine the facility's impact on stormwater. Buildings include the Highway Garage, Kimball Safety Complex, Town Hall, Community Center, Colby Library and Elementary School. Findings and recommendations were documented in the written SWMP.	Continue to add funds towards the construction of a new salt storage shed. Once the new permit is released, develop SWPPPs for facilities as appropriate.
Revised					
6F	Storm Drain System Operation and Maintenance Plan	Highway and Consultant	Storm Drain System O&M Plan.	The previously developed SOPs for catch basin, outfall and BMP maintenance & repair were incorporate into an expanded Infrastructure Operation and Maintenance Plan during Permit Year 13. This plan addresses an operation and maintenance program for use by the town, covering street sweeping, catch basin cleaning, street wastes storage, infrastructure inspection, maintenance and repair, and winter operations. The O&M Plan also covered spill prevention, response and reporting.	Continue to utilize the O&M Plan during all applicable Highway operations. Record inspection and maintenance activities.
Revised	Storm Drain System SOPs and O&M Plan		Standard Operating Procedures and O&M Plan.		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6G	SOP for Flood Projects	Highway and Consultant	Written review process, record of projects.	The Highway Department tracks roadway areas especially prone to flooding for inspection after heavy rainfall events. Roadway and shoulder areas that were impacted by excess stormwater were repaired.	Document any known flooding problems. Work on developing SOPs for fixing flood-prone roadway areas.
Revised					
6H	Sample Catch Basin Cleanings	Highway	Catch basin sediment sample.	As required by the NHDES Risk Characterization and Management Policy (RCMP), catch basin sediment must be sampled before reuse. Sampling to date has occurred approximately every three years, most recently in including 2010 and 2013. No sampling was performed during Permit Year 13.	Catch basin is not anticipated to occur during Permit Year 14. Therefore, sampling is not anticipated to occur during Permit Year 14.
Revised					

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
Revised N/A					

7a. Additions

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7b. WLA Assessment

The final 2012 303d list (list of impaired waters) outlines several waterbodies in Danville that are impaired due to mercury from atmospheric deposition, consistent with those outlined in the Town's NOI. Total Maximum Daily Load (TMDL) Reports were issued for Acid Lakes in NH and Mercury in the Northeast Region in September and October 2007, respectively. These TMDLs do not specifically address waters in Danville and, in general, develop regional recommendations for pollutant sources that contribute to atmospheric deposition. However, the Mercury TMDL outlines that state regulatory controls will help to reduce mercury sources such as those contained in household products or wastes. The Town of Danville is currently addressing mercury sources in Town through the annual Household Hazardous Waste Collection events.

The 2012 303d list also lists two additional waterbodies classified as a Category 5, meaning waters in need of a TMDL. Bartlett Brook is listed as impaired for pH and Dissolved Oxygen while Cub Pond is listed as impaired for pH. Both Bartlett Brook and Cub Pond are classified as low priority for TMDL development, with TMDLs scheduled for 2021 and 2023, respectively.

The 2013 draft General Permit for Stormwater Discharges from MS4s identifies Danville as a municipality within the Great Bay Estuary watershed that discharges directly to the nitrogen-impaired waterbodies in the Great Bay Estuary. As a result, Danville will need to prepare a Water Quality Response Plan to address nitrogen discharges in stormwater from its MS4, once the permit is finalized.

Part IV. Summary of Information Collected and Analyzed

Eighty four stormwater outfalls and twenty six catch basins have been mapped via GPS coordinates. Structure locations were imported into a GIS base map to form a complete map depicting all outfalls, culverts and catch basins within Town limits. This map was updated previously during Permit Year 11 to include catchment delineation, classification and prioritization for illicit discharge follow-up activities.

All Town outfalls have been screened for potential illicit discharges. Flow was observed and field tested at three of the inspected outfalls. One outfall was fed by two flowing inlet pipes which were sampled separately. There were no observed unusual activities in the vicinity of the outfalls (i.e. vehicle washing, etc.) or obvious sources of illicit discharges associated with any sampled outfall. Sources of dry weather flow are likely due to snow melt, high groundwater and perimeter yard drains. Laboratory tests of the samples for *E.coli*, ammonia, fluoride and chlorine did not indicate elevated concentrations at any outfall. Additional outfall inspections are ongoing; laboratory testing will be performed as needed.

The Town's consultant obtained a follow-up sample of the spring 2013 catch basin cleaning (CBC) stockpile on July 8, 2013 in compliance with NHDES Risk Characterization and Management Policy (RCMP) soil standards that require one sample be collected every 3 years. Approximately 8 grab samples of the approximately ½ cubic yard in size stockpile were taken to create a single composite sample. The stockpile met all S-3 criteria for reuse in the reproduction of base and sub-base aggregate for the construction of paved roadways and parking lots. As the Town does not utilize soil for these purposes, the stockpile will either be stored or properly disposed of. Sampling may now be performed every 3 years, with the next sample requiring collection during Permit Year 14 if catch basin cleaning is performed. Catch basin cleaning is not anticipated to occur during the next permit year, and thus sampling will likely be delayed.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Y
Annual program budget/expenditures	(\$)	\$5,000, varies
Total program expenditures since beginning of permit coverage	(\$)	\$130,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General fund

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	100%
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.)	N
Shoreline cleaned since beginning of permit coverage	(mi)	N
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	2/ co-sponsor w/other towns
▪ community participation	(%)	8% -12%
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Y

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	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

Outfall mapping complete	(%)	100% of town
Estimated or actual number of outfalls	(#)	84
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	-
▪ CADD	(%)	-
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	1
Illicit connections removed	(#) (est. gpd)	1
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

Number of construction starts (>1-acre)	(#)	17
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	50%
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 %)	0
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	N
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)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		N/A
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)	(\$)	
• Hourly or per basin contract rate	(\$/hr or \$ per basin)	
• Disposal cost	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells	(%)	0%
• % Structures cleaned with vacator	(%)	0%
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)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)		
• Hourly or lane mile contract rate		
• Disposal cost		
Sweeping Equipment		
• Rotary brush street sweepers owned/leased		
• Vacuum street sweepers purchased/leased		
• Vacuum street sweepers specified in contracts	(\$)	
• % Roads swept with rotary brush sweepers	(#)	
• % Roads swept with vacuum sweepers	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	N/A
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) practices implemented		
Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	80% 20%
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Zero-velocity spreaders used	(y/n)	N
Estimated net reduction or increase in typical year salt/chemical application rate		0%
Estimated net reduction or increase in typical year sand application rate		0%
% of salt/chemical pile(s) covered in storage shed(s)		100%
Storage shed(s) in design or under construction	(lbs. or %)	N*
100% of salt/chemical pile(s) covered in storage shed(s) by 2010	(y/n)	Y
*Monies are being placed into the Capital Reserve Account in preparation of building new storage facilities with ability to load inside of facility. A total of \$200,000 has been deposited.	(y/n)	Y