


Town of Derry
"Derry, New Hampshire's Place to Be"

DEPARTMENT OF PUBLIC WORKS,
Michael Fowler, P.E., Director
Thomas A. Carrier, Deputy Director

PW09-241

April 24, 2009

Glenda Herrick
USEPA - CIP
One Congress Street, Suite 1100
Boston, MA 02114

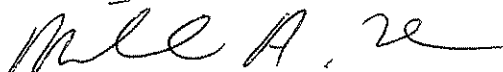
**RE: NPDES Small MS4 General Permit Number NHR041005
Year 6 Annual Report**

Dear Ms. Herrick,

Enclosed please find the Town of Derry's NPDES Small MS4 General Permit Year 6 Annual Report.

If you have any questions, please contact Craig Durrett or me at (603) 432-6144

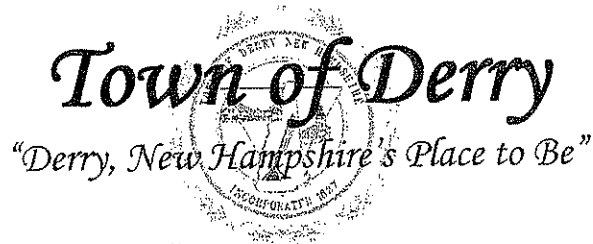
Very truly yours,



Michael A. Fowler, P.E.
Director of Public Works

Cc/att: Craig Durrett, Derry Public Works

/csd



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PW09-242

April 24, 2009

Jeffrey G. Andrews, PE
NHDES
Wastewater Engineering Bureau
P.O. Box 95, 29 Hazen Drive
Concord, NH 03302-0095

**RE: NPDES Small MS4 General Permit Number NHR041005
Year 6 Annual Report**

Dear Mr. Andrews,

Enclosed please find the Town of Derry's NPDES Small MS4 General Permit Year 6 Annual Report.

If you have any questions, please contact Craig Durrett or me at (603) 432-6144

Very truly yours,

Michael A. Fowler, P.E.
Director of Public Works

Cc/att: Craig Durrett, Derry Public Works

/csd

Municipality/Organization: Town of Derry, NH

EPA NPDES Permit Number: NHR041005

MaDEP Transmittal Number: W-

Annual Report Number
& Reporting Period: No. 6: April 1, 2008-March 31, 2009

NPDES PII Small MS4 General Permit Annual Report


Part I. General Information

Contact Person: Michael A. Fowler P.E. Title: Director of Public Works

Telephone #: (603) 432-6144 Email: mikefowler@ci.derry.nh.us

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: Michael A Fowler P.E.

Title: Director of Public Works

Date: April 24, 2009

Part II. Self-Assessment

The following single goal for this reporting period is being adjusted to the next reporting period. Due to the extension of the permit renewal by USEPA, All measurable goals and planned activities are subject to change based on the contents and requirements of the new MS4GP. The Town of Derry is also going through intense budget negotiations and experiencing significant cuts in budgets across all departments. This will have a significant impact on DPW's ability to conduct all planned activities or reach all measurable goals in a timely manner.

- Update Master Plan – The Master Plan, with the assistance of the UNH Cooperative Extension is currently being updated with an expected completion date of December 2009. A Community Profile project “Our Town, Our Future” is underway with a community involvement meeting held in April 2009 (postponed from December 2008 due to ice storm). Further progress will be reported in the next annual report. The adopted stormwater and illicit discharge ordinance will be incorporated in the Master Plan by reference at the time the updates occur.

General

The Department of Public Works (DPW) is continually making progress on the NPDES Phase II Storm Water Program with the Town of Derry well on its way to improving the quality of its storm water run-off. The Town of Derry continues to strive to implement, encourage, and require the use of Best Management Practices established at the onset of the program, as well as new or revised BMPs throughout the term of the permit. The Town is encouraged by the support that it has received from the residents of Derry since the inception of the program as well as from prospective developers interested in incorporating recommendations from Derry's draft and final adopted Stormwater Ordinance. Its principles are being followed and incorporated into projects management by both town, private, and commercial entities. There is a sincere interest and enthusiasm by a diverse group of people in Derry to improve the storm water quality in the water ways and teach others about the importance of eliminating non-point source pollution. The Town also worked closely with an auto salvage facility that has applied for certification through the NHDES Green Yards Program in order for the applicant to follow BMPs and incorporate supplemental stormwater treatment mechanisms into proposed site redesign.

Intern

The DPW hired an intern for the summer of 2008. The intern is a student attending Holy Cross College and majoring in environmental science studies. The intern continued with the compilation of the Town's storm water collection system data base, assisted with the Outfall Reconnaissance and Illicit Discharge Detection Elimination program, Public Outreach program, and periodic surface water monitoring as part of the town's own evaluation of chloride sources. The intern inspected outfall structures for signs of illicit discharge, conducted field screening of surface water, stream segments, and outfall discharges, maintained field monitoring data and outfall inspections, and prepared outreach materials and slides for the local cable access station.

Illicit Discharges

The Town responded to several illicit discharges during the reporting period.

1. Discharge of landscape fountain to catch basin - A commercial property was draining a landscape fountain to a catch basin that eventually discharges to surface water. Fountains occasional have antifouling and disinfecting chemicals added to the water.
2. Dumping of restaurant grease/oil to a catch basin - During routine inspections, a local oriental restaurant was found to be illegally disposing of it cooking grease into a catch basin behind the restaurant even though grease dumpster was present. The grease flowed into a tributary to Hood

Pond, a Town recreational water body. Code Enforcement, the Fire Department, and NHDES responded. Absorbent booms were set up in the stream and manholes by the local fire department, and follow-up enforcement was left up to NHDES. The facility management company for the plaza where the restaurant was located coordinated to steam clean the storm drain system and to have storm drain stencils in Mandarin.

3. Dumping of restaurant grease/oil to catch basin - The Town responded to a complaint of illegal dumping a mixture of water and cooking grease into a catch basin next to a sub and pizza shop on the commercial property. No grease traveled beyond the catch basin. Code Enforcement and NHDES responded.
4. Dumping of leaves/grass clipping into surface water - During a separate stream inspection for outfalls, it was observed that private and commercial entities had been dumping their leaves and grass clippings into Beaver Brook or its tributaries. Public Works periodically issued a letter to the property owner to discontinue this practice.

The Town also responded to 2 accidental spills of petroleum, in order to assess whether the MS4 or surface waters were impacted by these releases. The Town Fire Department and NHDES oversaw the initial response and cleanup of each of these.

1. 50 gallon gasoline release due to overflow of USTs at Shell Gas Station - No impact to storm drains or surface water.
2. Vehicle accident into Beaver Brook - Limited gasoline release from vehicle tank - Absorbent booms placed in brook, vehicle removed.

Catch Basin and Stream Cleaning

In the 2008 construction season, an additional 500 catch basins were cleaned. A second cleaning cycle of all catch basins is now in progress with a program that schedules higher priority catch basins on a more frequent cleaning schedule. The Town is now able to better track catch basins that fill up more quickly with sand and debris and assign resources appropriately for more frequent cleaning where needed. Basins that pick up little debris are cleaned less often. The Town has budgeted to clean an additional 500 catch basins during the next reporting period. The Town worked with the owner and property management company for a large local shopping plaza to conduct a stream cleanup of an unnamed tributary that flows through its property and eventually discharges to Hood Pond, a Town recreational pond. Materials removed including old shopping carts, air conditioners, barrels compressors and other miscellaneous debris. Photos from before and after the cleanup are attached.

Drain Stenciling

Catch basin stenciling program continued to be very popular with a local Girl Scouts troop. This group stenciled over 100 catch basins with "No Dumping, Drains to Wetlands" or other messages. The Town's Public Works Department provided the stencils and paint for the event and continues to make it available for any group interested in conducting these activities.

Public Outreach and Participation

Derry continues to be active in the Manchester area inter-community storm water group known as SWAT (Storm Water Assessment Team) with participation in monthly to bimonthly meetings. The Town continues to sponsor Derry Clean Up day during the week of Earth Day and has had broad participation from the public in this program as well. The Beaver Lake Watershed Partnership (BLWP) continues to work diligently within Derry as well as Auburn and Chester to improve water quality within the Beaver Lake Watershed. Many of the Partnerships goals parallel the goals set for the Town of Derry in our MS4GP, benefiting the

Town. Town representatives involved in the partnership meetings throughout the year include the Superintendent of Operations, Community and Economic Development Director, Code Enforcement Officer, Environmental Engineer, and Chairman of the Conservation Commission.

The Town continues to use events such as BLWP meetings, Town-wide Derry Fest, and Derry Doggy Days as a means of outreach to the public. By partnering up with or through open communication with organizations such as BWLP, Conservation Commission, Recreation Department, the town was able to distribute information on stormwater pollution prevention BMPs, household hazardous waste, pet waste management, rain barrels and rain gardening. The town often gives tours of the Town Hall to students and youth groups (cub scouts, girl scouts). During these tours the Director of Public Works gives short presentations on the town environmental responsibility and distributes age appropriate literature to participants. These tours and presentations has resulted in groups contacting us in order to participate in storm drain stenciling, and to brain storm on other volunteer opportunities.

The Town is involved in two household hazardous waste collection events per year cosponsored with the Town of Londonderry. Derry conducts an active outreach with public notice and stormwater handouts to Derry residents at our Transfer Station and other town venues. Our aggressive outreach and advertising for the last several events resulted in a significant increase in participation of Derry residents. We plan to continue this approach with scheduled May 2009 event being held in Derry.

Training

One or more Public Works Employees (including the Environmental Engineer, Superintendent of Operations, and Crew Chiefs) participate throughout the year in various training opportunities or live streaming webcasts related to stormwater pollution prevention including the following:

- Maintenance, Inspection & Enforcement of Stormwater Requirements in New Hampshire: Workshop for Municipal Officials, NRW, Milford NH (4/8/08)
- USEPA NPDES Webcast: The Art and Science of Stormwater Retrofitting (4/9/08)
- Attendance and Poster Presentation at the 19th Annual Nonpoint Source Pollution Conference “Progress Through Partnerships: Collaborating to Protect Our Watersheds”, Groton, CT (5/19-21/08)
- USEPA-NPDES Webcast: Assessing the Effectiveness of Your Municipal Stormwater Program (6/4/08)
- Southern NH Planner’s Roundtable: Low Impact Development – Porous Pavement, Manchester, NH (6/17/08)
- Pretreatment Coordinators Workshop, USEPA, 10/23/08
- NHDES Alteration of Terrain Rules Workshop (11/17/08)
- 2008 BIA/DES Water Symposium, Manchester, NH (11/18/08)
- USEPA-NPDES Webcast: Monitoring and Reporting for EPA’s 2008 MSGP (3/19/09)
- NHDES Land Resource Management Workshop 2009 (2/9/09)
- Introduction to ArcGIS (Using ESRI ArcView 9.3 and NH Granit) by UNH Cooperative Extension (3/9-11/09)
- Watershed Analysis (Using Spatial Analyst Using ESRI ArcView 9.3 and NH Granit) by UNK Cooperative Extension (3/12/09)
- Salt Education and Reduction Workgroup Meetings, Londonderry (various dates)

The Town has continued with or is scheduled for training opportunities into the next period with the following:

- Association of Engineering Geologists 2009 Spring Symposium, Boston College 4/4/09

- 2009 BIA/DES Waste Management Seminar, Manchester, NH (5/5/09)

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) -- Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Next Permit Year
1.1	Document & Continue Existing Programs	Public Works	Review public education programs that are already in place that may be utilized as mechanisms to distribute storm water information. Prepare written documentation that summarizes existing programs in place that may be used in conjunction with the Phase II storm water program.	Goals Met: The Town of Derry continued to distribute information through kiosks located at the Municipal Center, Transfer Station, and Derry public buildings throughout town. The Town revamped its website which includes a page dedicated to environmental protection, pollution prevention, and storm water programs.	The Town intends to continue distributing information through the venues that it has established. We will continue to improve and expand the Town's website to further highlight environmental programs including storm water management, household hazardous waste, and recycling.
Revised					
1.2	Coordinate Public Educators	Public Works	Organize Town employees, educators, volunteers, etc. to work together to develop materials to be distributed to the public and school systems regarding Phase II storm water.	Goals Met: The Town has had the opportunity to reach many of the same students through existing volunteer organizations that have worked closely with the town on the stenciling program. Pinkerton Academy Biology Faculty remain involved in the Beaver Lake Water Shed Partnership and had students in their biology courses testing streams and ponds for pollutants. This gives the students real life experience in environmental science while performing a valuable service to the community. As in previous years, the Students for Environmental Action (SEA) at Pinkerton Academy participated in a clean up day in April and cleaned up several miles of roadway throughout Derry.	The Town intends to continue to work closely with the School Department to incorporate storm water education as well as other environmental programs into the regular curriculum. We will also continue to support efforts by volunteers as well as paid interns to speak at local youth organizations and schools.
Revised					

1.3	Coordinate information and Program Distribution within School Network	Public Works	<p>Prepare brochures or fact sheets to be distributed to the public by direct mailings. Provide information on the Town's website. Begin developing curriculum to be used to educate students about storm water issues. Contact 50% of the schools located within the Town.</p>	<p>Goals Met: Approximately 4500 residents received direct mailings of Notices of the Household Hazardous Waste Collection events and Stormwater Pollution Prevention which were included with "Drinking Water Consumer Confidence Reports". The Public Works Department continues to distribute informational brochures and fact sheets at the annual "Town Fair" Derryfest. The Town contacts public schools including Pinkerton Academy through their biology department. The DPW Director made presentations to youth groups including Cub Scouts and Girl Scouts. This resulted in groups returning to participate in storm drain stenciling as well as to work on special individual scout projects.</p>	<p>Conduct additional direct mailings to community water system customers of HWY events and stormwater pollution prevention. Continue to work with the public schools and Pinkerton Academy to distribute information.</p>
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
2.1	Create Task Committee	Public Works	Task committee is established. The task committee will be responsible for organizing volunteers, etc., to assist the Town with the implementation requirements for the Phase II Storm Water Program. Document meeting minutes.	Discontinued in previous year. See annual report for 2004-2005. Redundant due to other groups already established.	N/A
Revised	<i>The Town of Derry has determined that a task committee is not necessary to achieve the goals set forth in the Storm Water Management Plan. Therefore, this BMP has been eliminated from the plan.</i>				
2.2	Conduct Public Meeting/Acquire Public Input	Public Works & Town Administration	Public Meeting. Phase II Storm Water Program information to be presented. Document meeting minutes.	Goals Met: Public meeting held on the Storm Water Ordinance and Stormwater System Design Regulations. The Public Works Department continues to encourage public input into the Storm Water Program.	The Public Works Department will continue to strive to educate the public in storm water. Specific public meetings are not scheduled. Instead public input is solicited through public event displays.
Revised					
2.3	Establish Storm Water Information Display at Major Town Events	Public Works	Phase II Storm Water information display at one town event per year.	Goals Met: This task was completed with a display set up at Derryfest, Derry Doggie Days, and public meetings.	Displays will again be set up at Derryfest and Derry Doggie Days events this year. Youth Groups have also expressed interest in helping with these events for public education as community service projects.
Revised					
2.4	Storm Drain Stenciling/Community Clean-up Day	Public Works	50% of storm drains stenciled using volunteers or school students. Community clean-up day held once a year using volunteers and/or students.	Goals Met: Storm Drain stenciling was conducted by a girl scout group in May 2008. Numerous groups participate each year in Derry Cleanup Day. Additional interest in these activities are voiced regularly.	The Stenciling program will be an ongoing program as the paint will wear off and need to be touched up. Additional Storm Drain stenciling by a various groups is anticipated in 2009.
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
3.1 Revised	Map Outfalls and Receiving Waters	Public Works & IT Department	Produce a map showing outfalls and receiving waters	Goals Met: The Town of Derry has completed mapping the entire storm water collection system including the outfalls. Follow-up inspection during dry weather conditions continued with remapping and stream cleaning projects.	The Town of Derry will strive to keep the database up to date by adding any new storm water collection systems to the base map. Make any necessary revisions and corrections to the data base as errors or old infrastructure previously missed are discovered.
3.2 Revised	Evaluate Need for Storm Sewer Ordinance; Develop if Necessary	Public Works, through a consultant.	Complete review of existing local regulations and ordinances to determine what mechanisms are already in place. Prepare a Storm Sewer Ordinance for adoption by the Town.	Goals Met: The Derry Town Council adopted the stand-alone Storm Water Ordinance and Stormwater System Design Regulations.	Implement and enforce the Storm Water Ordinance Stormwater System Design Regulations. Prepare revisions if necessary. Step up enforcement.
3.3 Revised	Train Volunteers in Illicit Discharge Identification	Public Works	Complete a training document. Complete volunteer training for illicit discharge identification. This must include information related to the hazards associated with illegal discharges and improper waste disposal.	Goals Met: The Town uses the illicit discharge report form if/when illicit discharges are identified. to be used by Town employees and volunteers. Any reports that are made to the Code Enforcement Office or Public Works Department are investigated.	Update the Town's website with information on identifying and reporting illicit discharges.
3.4 Revised	Dry Weather Screening of Outfalls	Public Works	Utilize trained volunteers and/or students to complete dry-weather screening of outfalls. Complete dry-weather screening forms for inspection. Document findings of screening. Identify outfalls requiring further follow-up.	Goals Met: Dry weather screening of outfall continued through 2008. No specific illicit discharges were identified during the screening. However, illegal dumping of lawn waste (grass clipping and leaves) into streams were identified and addressed.	Limited dry weather screening of outfalls will continue, dependent upon availability of funding and other budget constraints. In addition, volunteers working with the Beaver Lake Watershed Partnership are encouraged to become involved in this process.
3.5 Revised	Develop System of Identifying Illicit Discharges and Initiate Program to Eliminate Them	Public Works	Complete Plan outlining system for eliminating illicit discharges. Initiate elimination program. Eliminate the majority of identified illicit discharges.	Goals Met: The Town of Derry utilizes an illicit discharge form to note any potential illicit discharges discovered during catch basin cleaning. Any reports from the public are placed on work orders and investigated by the Environmental Engineer, Supt. of Operations, or the Code Enforcement Officer. Three were identified and reported over the last year.	Continue with existing program and practices of identifying and investigating illicit discharges. Step up enforcement if necessary.

3.6 Revised	Identify Magnitude of Effort to Continue Mapping Storm Sewer System.	Public Works	Complete a review of the storm sewer system mapping in Town. Prepare an assessment of the effort required to continue this mapping.	Goals Met: The Town continued mapping of the Storm Sewer System using interns and/or engineering staff. All new additions to the Public Storm Sewer system are added to the Town's Geographic Information System.	Continue updates as required. Due to significant budget constraints for the next year, plans to conduct catchment mapping and delineation over the next year may be postponed for 1 to 2 years. The Town had hoped to complete this effort even though it was not an originally identified and scheduled measurable goal.
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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4.1	Document Existing Programs and Expand Them as Required	Public Works	<p>Complete Review of Existing Local regulations pertaining to construction site runoff control. Complete written summary of existing requirements. This may require additional assessment of potential water quality impacts. Complete necessary additions to existing documents/ordinances for establishing water quality benchmarks, site inspection procedures, etc. Ordinance revisions will be accompanied by appropriate public notice and comment opportunities. The regulations will ultimately address areas of concern noted above.</p>	<p>Goals Met: The Town is routinely checking to verify that an NOI has been submitted to the EPA for all sites over one acre in disturbance. We continue to use a Construction Site Run-off Control Inspection form when inspecting sites through our engineering division to ensure the SWPPP for a construction site is being adhered to.</p>	<p>Continue to be vigilant in the enforcement of construction site erosion control, ensuring SWPPP are present on site and adhered to, continue random cross-checking of CGP NOIs filed against projects in town.</p>
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
5.1	Document and Enhance Procedures for MS4 Storm Sewer System	Public Works	Complete review of existing MS4 maintenance procedures. Complete formal procedures manual for conducting MS4 maintenance, including record keeping forms, BMPs related to development, etc. Regulations and ordinances will be expanded, as appropriate, to incorporate measures to address the areas of concern noted above.	<p>Goals Met: The Town continues to keep records of the locations and number of catch basins cleaned using its Geographic Information System. The crosschecks the EPA's eNOI database to ensure that NOIs and NOTs have been filed. All site plan review include a review by the Environmental Engineer which includes a focus on construction and post-construction stormwater management.</p>	Continue keeping records on areas cleaned. Upon completion, the Town will develop a schedule based on historical amounts of debris removed from specific catch basins.
Revised					
5.2	Incorporate Best Management Practices into Town Master Plan	Public Works & Planning Department	Complete update of Town's Master Plan to include Best Management Practices.	<p>Goals Met: State and nationally recognized BMPs are included by reference in the Town's storm water ordinance and Storm Water System Design Regulations.</p>	Follow BMPs in Town activities and projects. Make copies of BMPs available to public. Update BMPs as revisions occur.
Revised	<i>The updates to the Town's Master Plan is delayed until 2008-2009 time period. Instead, BMPs will be incorporated into the draft Storm Water Ordinance currently being revised.</i>		Incorporate BMPs into Storm Water Ordinance and Storm water System Design Regulations.		

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Next Permit Year
6.1 Revised	Document and Enhance Employee Training Procedures	Public Works	Complete review of existing training programs. Complete formal employee training manual.	<p>Goals Met: DPW continues to have employees trained and provide employees with informational literature. Lessons learned and training received is transferred to other employees through on the job training and dialogue with employees.</p>	Training on SWPPPs, housekeeping, spill response, and erosion control is planned for the spring.
6.2 Revised	Evaluate the Use of Pesticides, Sand and Salt	Public Works	Complete review of existing procedures. Complete formal procedures manual for handling and use of pesticides, sand, and salt.	<p>Goals Met: Pesticides and herbicide are applied only by licensed applicators for any substantial projects. Fertilizer application on recreational fields is contracted to licensed commercial applicators and are required to use only low phosphorus, slow-release nitrogen fertilizer. The Town has also consulted with the Agricultural Office of the UNH Cooperative Extension in Brentwood to evaluate alternative herbicides and pesticides.</p>	Continue with existing practices. Conduct outreach to public. The Town will continue to look at better technology to reduce the salt and sand usage.

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Year
Revised				The state has developed a draft chloride TMDL for Beaver Brook. The town has continued its involvement in Salt E'd and Reduction workgroup meetings with NHDES and other stakeholders. As part of our own evaluation, the town initiated a data sharing of chloride monitoring with NHDES. The Town also began preliminary field screening of conductivity in local streams to identify the primary contributors of chloride to surface water in Derry over the past winter.	The town will continue random stream testing of conductivity with periodic chloride analysis. The Town anticipates including chloride use education in its outreach efforts.

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures	(\$)	\$70,000 est.

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	20,000 est.
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y, ~2 miles
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> ▪ days sponsored (<i>Twice/year cosponsored with Town of Londonderry</i>) ▪ community participation (<i>estimate 300 Derry households represented</i>) ▪ material collected 	(#) (%) (tons or gal) (y/n)	2 (see comment) Unknown Yes
School curricula implemented		

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			X

<ul style="list-style-type: none"> ▪ Post-Development Stormwater Management 	X			X
Accompanying Regulation Status (indicate with "X")				
<ul style="list-style-type: none"> ▪ Illicit Discharge Detection & Elimination 				X
<ul style="list-style-type: none"> ▪ Erosion & Sediment Control 	X			X
<ul style="list-style-type: none"> ▪ Post-Development Stormwater Management 	X			X

Mapping and Illicit Discharges

Outfall mapping complete	(%)			100%
Estimated or actual number of outfalls	(#)	(*Includes road crossings)		1289*
System-Wide mapping complete	(%)			100%
Mapping method(s)				
<ul style="list-style-type: none"> ▪ Paper/Mylar 	(%)			
<ul style="list-style-type: none"> ▪ CADD 	(%)			100%
<ul style="list-style-type: none"> ▪ GIS 	(%)			100%
Outfalls inspected/screened	(# or %)			50%
Illicit discharges identified	(#)			
Illicit connections removed	(#)			
	(est. gpd)			
% of population on sewer	(%)			~50%
% of population on septic systems	(%)			~50%

Construction

Number of construction starts (> 1-acre)	(#)	9
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public (<i>*Specific to stormwater, erosion, or sediment control</i>)	(#)	1*

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	Unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Once/4yrs
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	Once/yr
Total number of structures cleaned	(#)	500 (this period)*
Storm drain cleaned	(LF or mi.)	unknown
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	unknown
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Beneficial use
Cost of screenings disposal	(\$)	Unknown

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1/year
Average frequency of street sweeping (commercial/arterial or other critical streets) (weekly April-Nov.)	(times/yr)	35/year
Qty. of sand/debris collected by sweeping	(lbs. or tons)	unknown
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Beneficial use
Cost of sweepings disposal	(\$)	unknown
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	n
Mechanical street sweepers contracted out		

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
■ Fertilizers (Commercial application to recreational/athletic fields)	(lbs. or %)	Unknown
■ Herbicides (mandatory by NHDES-Commercial application on waste water lagoons embankment)	(lbs. or %)	Unknown
■ Pesticides	(lbs. or %)	Unknown

Anti-/De-Icing products and ratios	% NaCl	80%
	% CaCl ₂	
	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	20%
	% Sand	
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes (12)
Automatic or Zero-velocity spreaders used	(y/n)	Yes (2)
Estimated net reduction in typical year salt application	(lbs. or %)	None
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	N*
*New storage and loading facility completed		