Municipality/Organization: Town of Groveland

EPA NPDES Permit Number: MA041195

MassDEP Transmittal Number: W-035834

Annual Report Number

& Reporting Period: No. 13: March 2015-March 2016

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert P. Arakelian Title: Road Commissioner

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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: William Dunn

Title: Chairman – Board of Selectmen

Date:

8/4/16

Town of Groveland NPDES PII Small MS4 General Permit Annual Report

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Part II. Self-Assessment

The Town of Groveland's small MS4 was approved under the NPDES Stormwater General Permit in October of 2003. In accordance with permit requirements, the Town of Groveland has completed its required annual self-assessment for its Phase II Stormwater Program. The following achievements have been made and BMPs developed as part of the Town's Stormwater Management Program.

The Road Commissioner periodically reports to the Board of Selectmen about the status of stormwater management efforts at public meetings, at which comments and Q&A are encouraged. Further, a Stormwater Management Committee has been set up to monitor permit implementation and encourage cooperation by residents, commercial operators, and developers with existing and planned Town initiatives.

Groveland has created several webpages and provided downloadable documents on its Town website highlighting stormwater management goals and regulations. These webpages are intended to increase public awareness of the issue and suggest ways the public can contribute to the Town's efforts, such as proper disposal of pet waste and hazardous waste, sparing use of fertilizer, and restoring vegetation in areas of cleared ground to minimize erosion potential. Contact information for the public to report possible illicit discharges is also posted on the Town website. The Town is exploring the feasibility of including promotional brochures with property tax bills, to help bring the information and ideas on the stormwater webpages to the residential audience. The brochures would likely include contact information for reporting suspected illicit discharges, as well as other public education topics outlined previously.

Progress has been made towards involving the public in activities to limit pollution entering the storm drainage system and surface waters. A volunteer initiative held a stream cleanup day in conjunction with Earth Day, 2015, while local Boy Scout chapters organized a cleanup day for JB Little Road which runs through the center of Crane Pond Wildlife Management Area. The Boy Scouts also established an annual electronics waste recycling day when residents can safely discard electronic goods. Organic yard waste is collected from residents at the Town garage twice weekly from Spring through Fall each year. The Town partners with neighboring towns to sponsor hazardous waste collection events approximately twice per month, available to all residents. Additionally, most of the catch basins discharging into the Merrimack River have been stenciled to increase public awareness of stormwater destinations.

The town has compiled a map of all of its outfalls and catch basins in its Urbanized Area, of which there are approximately 86 and 975, respectively. Plans are to maintain and update this map going forward. The Highway Department routinely watches for evidence of illicit discharges, such as dry weather flows, from the stormwater outfalls during its normal operations and any suspicious outflow is reported to the Road Commissioner for follow-up. The Road Commissioner, Board of Health, and other departments work together as needed to investigate and resolve any reported issues.

New and re- construction projects within Town are closely monitored for the possibility of any

Town of Groveland NPDES PII Small MS4 General Permit Annual Report

Page 2 of 18

erosion and sediment-laden stormwater from entering the drainage system. Article 14 of the Town's general bylaws, adopted in 2007, contains language addressing the control of erosion and sediment in runoff from construction sites, and the Town conducts periodic inspections for erosion and sediment control during construction. New construction must also comply with the Massachusetts DEP WPA Stormwater Management Policy. Developers proposing construction projects are required to obtain a Stormwater Management Permit and Land Disturbance Permit, and the project plans are subject to review by a third-party engineering firm. Developers must also file an Operations and Maintenance Plan to indicate compliance with all relevant regulations in future, and to keep the Town apprised of any changes of ownership or responsibility.

Ongoing maintenance of the streets and drainage structures is already a part of the Town's O&M program. The Highway Department performs annual street sweeping and it rebuilds or upgrades stormwater drainage structures as needed. Catch basins known to have high accumulations of debris are cleaned at least once per year; other catch basins are cleaned as resources allow. The debris from street sweeping and catch basin cleaning is composted. Additionally, all road salt materials used by the Town are stored in a covered storage shed at the Town garage property, where detention ponds help protect nearby surface waters from direct runoff.

Page 3 of 18

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	Public Education Seminars	Board of Selectmen	Number per year	The Road Commissioner periodically reports to Board of Selectmen about goals at publicly televised meetings.	The Road Commissioner holds periodic meetings with Selectmen about storm water issues, including work performed to date and steps moving forward.
1B Revised	Storm Water Education Flyers	Board of Selectmen	Number of flyers and posters dist per year	No flyers were distributed this period.	Explore the feasibility of including informational flyers with property tax bills to target residential audiences. Information will likely include topics on septic system maintenance, proper pet waste management, fertilizer and pesticide application, and proper lawn maintenance.
1C	Storm water web page	Board of Selectmen	Number of web page visits	The Town maintains a dedicated stormwater webpage, including	Continue to update the website to provide relevant information on the
Revised				information on the Town's Stormwater Management Committee, and links to historic meeting minutes and agendas. There are also direct links to the Town's Stormwater management Program, Stormwater management General Bylaw, and Stormwater Management Permit Application.	permit and its local applicability. Explore the feasibility of adding links to EPA's website and providing links to downloadable educational material content to support BMP 1B.
1D Revised	Local cable station campaign	Board of Selectmen	Number of times shown	None this period.	Determine feasibility of cable campaign for next period, such as showing EPA-produced videos such as "After the Storm".

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 13	Next Permit Term
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
1E	Public Education Table	Board of	Staff table	None this period.	Staff an informational table at
		Selectmen			Groveland Day, held in the Fall 2016
Revised					with information on stormwater.
					Also promote other public education
					and outreach BMPs outlined
					throughout this report.

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	Comment & Q&A at seminars	Board of Selectmen	Document concerns and respond	Made periodic informal presentations to the Board of Selectmen by Road	Provide periodic status updates on stormwater management program
Revised	Present annual report to Board of Selectmen			Commissioner.	progress. Budget for implementation of future items.
2B	Volunteer cleanup & monitoring	Board of Selectmen	# of volunteers and accomplishments	Volunteers had a stream cleanup day in conjunction with Earth Day. Boy	Repeat next year. Continue to support both programs.
Revised				Scouts also organized a cleanup of JB Little Road in May.	
2C	Annual waste recycling day	Board of Selectmen	Amount of waste collected for recycle.	The local Boy Scout chapter held an electronics waste recycling day in June	Repeat next year
Revised				for residents to dispose of unwanted electronic goods.	

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
2D	Storm Drain Stenciling	Board of Selectmen	Number of drains stenciled	The majority of catch basins with outfalls discharging to the Merrimack	Periodically repaint faded stencils and mark new basins when they are
Revised				River were stenciled by 2008.	constructed in the Town as funding and manpower are available.
2E	Stormwater	Stormwater		The Stormwater Management	The Stormwater Management
	Management	Management		Committee was created with	Committee will likely meet again
	Committee	Committee		representatives to oversee permit	once the new Phase II is finalized.
Revised				implementation. Due to no new permit	
				requirements being required for some	
				time, this committee has not met for	
				several years.	

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
2F	Household Hazardous Waste Collection Event	Board of Health	Allow residents to periodically dispose of HHW	In partnership with approximately a dozen neighboring towns, residents may periodically dispose of household	Continue to advertise and allow local participation in at least one HHW collection event.
Revised				hazardous waste at events held approximately every couple weeks. Some events have a fee and some are free.	
2G	Organic Yard Waste Collection	Highway Department	Prevent organic yard waste from being dumped in culverts, streams, or wetlands	Provided a drop-off location for yard wastes, including leaves, grass clippings, and small brush from residents every Saturday through the	Continue program next permit year.
Revised				growing season.	

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 Revised	Storm drain system map	Board of Selectmen	Percent of system mapped	The Town has developed a storm drain map showing drainage structures in Groveland, including outfalls and catch basins within the regulated area totaling approximately 86 and 975, respectively. No new structures were mapped during this period.	Update the stormwater map with newly located outfalls and catch basins discovered since the map was completed and to include newly built infrastructure.
3B Revised	Ordinance prohibiting illicit discharges	Board of Selectmen	Monitor compliance with ordinance	None this period.	Work towards reviewing and drafting an IDDE bylaw to satisfy new permit requirements.
3C Revised	Plan to detect illicit discharges	Board of Selectmen	# of illicit discharges identified	The Highway Department performs ongoing observations during routine operations to look for potential illicit discharges, such as dry weather flows or other evidence. Any suspect discharges are reported to the Road Commissioner for follow-up. No illicit discharges were observed during this period.	Continue ongoing observations by Highway Department personnel and the Road Commissioner. Work towards establishing written procedures as required under the upcoming Phase II permit within the timeline outlined.

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	Inspect outfalls / perform dry weather screening	Office of the Road Commissioner	Number of outfalls inspected/screened	None this period.	Continue to monitor and inspect for possible illicit discharges during routine department operations, and
Revised	S				follow up on any potential problems. Establish procedures to meet the schedule required under the new Phase II permit within the timeline outlined.
3E	Provide Contact Information for Reporting an Illicit Discharge	Board of Selectmen	Distribute contact info to all households in the town	All department contact information is provided on the Town website. Calls and complaints pertaining to potential illicit discharges are addressed by the	Address calls as received. Provide contact information to residents on illicit discharges via the website.
Revised				Road Commissioner, Board of Health, or other department as appropriate. Departments work together to coordinate responses as needed. No calls were received during this period.	

4. Construction Site Stormwater Runoff Control

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 13	Next Permit Term
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
4A	Ordinance for erosion	Board of	Enforcement of	The Town adopted a Stormwater	Continue to enforce the bylaw as
	& sediment control at	Selectmen	ordinance	Management bylaw on April 30, 2007	approved in 2007. Begin review of
	construction sites			as part of the general bylaws (Article	the bylaw to evaluate changes
Revised				14). No additional work was	required under the new permit.
				performed during this period.	

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 13	Next Permit Term
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
4B	Peer Reviews of	Board of	# or % of plans	Groveland employs third-party	Continue to perform peer reviews in
	construction plans	Selectmen	reviewed	engineering firms to conduct peer	advance of construction to ensure
Revised				reviews for all construction projects	adequate erosion and sediment
				that will disturb >20,000 square feet	controls are proposed.
				proposed in town, paid for by the	
				developer. Proposed development must	
				also prepare a Stormwater Management	
				and Erosion & Sediment Control	
				Reviews are performed to make sure	
				there are adequate erosion and sediment	
				best management practices in place	
				during construction.	
4C	Construction Site	Planning Board	# of site inspections	Town departments, primarily the	Continue to perform periodic site
	Inspection		performed	Planning Board, performs periodic site	inspections during construction.
Revised				inspections to make sure erosion and	
				sediment controls are in place and	
				being maintained. Any issues are noted	
				for follow-up by the developer.	

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 Revised	Enforce MA DEP WPA Storm water management policy on sites > 1 ac.	Board of Selectmen	Maintenance of Site Plan Review Zoning By-Law	All new subdivisions and site plans comply with MassDEP WPA Storm Water Management Policy as regulated by the Rules & Regulations Governing the Subdivision of Land, most recently	Continue to enforce rules and regulations when reviewing subdivision proposals. Begin review of regulations to evaluate changes required under the new permit.
5B Revised	Ordinance for post storm water management	Board of Selectmen	Maintenance of ordinance	revised October 11, 2005. The Town adopted a Stormwater Management bylaw on April 30, 2007 as part of the general bylaws (Article 14). No additional work was performed during this period.	Continue to enforce the bylaw as approved in 2007. Begin review of the bylaw to evaluate changes required under the new permit.
5C Revised	Low impact development storm water management incorporated into subdivision regulations	Planning Board	Implement new regulations	The Town has adopted Rules & Regulations Governing the Subdivision of Land, most recently revised October 11, 2005 to ensure post-development conditions will minimize water quality impacts due to stormwater runoff.	Continue to enforce rules and regulations when reviewing subdivision proposals. Begin review of regulations to evaluate the changes required under the new permit within the timeline outlined.

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				, , , , , , , , , , , , , , , , , , , ,	

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 13	Next Permit Term
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
6A	Develop municipal	Office of the	# of structures/streets	Groveland performs Operation and	Continue periodic O&M procedures.
	O&M plan	Road	cleaned, amount of	Maintenance as part of routine	Prepare written procedures within the
		Commissioner	employee training	operations. Tasks include periodic	timeline outlined in the new permit.
Revised				street sweeping, catch basin cleaning,	
				drainage system reconstruction, etc.	
6B	Upgrade drainage	Office of the	Number of upgrades	2 drainage structures were rebuilt	Continue to inspect and maintain the
	systems	Road	per year	during this period.	drainage system as needed.
		Commissioner			
Revised					

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
6C Revised	Ensure Covered Storage for Salt Materials	Office of the Road Commissioner	All salt stored in covered shed	All salt materials were stored under cover in the salt storage shed during this permit period.	Continue storing and loading of salt materials in the covered storage shed.
6D	Sweep streets 1x/year	Office of the Road Commissioner	All streets swept 1x/year	All streets are swept annually using inhouse staff and equipment.	Continue annual street sweeping program.
Revised					
6D	Clean catch basins with high sediment accumulation rates 1x/year	Office of the Road Commissioner	# of catch basins cleaned	Catch basins known to have high sediment accumulation rates are cleaned at least once per year using inhouse staff and equipment. Catch	Continue annual catch basin cleaning. Continually evaluate sediment accumulation in the basins throughout Town and add basins to
Revised				basins targeted are typically those on highly traveled streets or those at the low point of a hill.	the schedule as needed.

Town of Groveland NPDES PII Small MS4 General Permit Annual Report

EPA NPDES Permit Number: MA041195 MassDEP Transmittal Number: W-035834

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					

7a. 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
Revised					

7b. WLA Assessment

The MassDEP final 2014 303(d) Integrated List of Waters outlines three waterbodies in the Town of Groveland that are classified as Category 5 "Waters Requiring a TMDL": the Merrimack River (MA84A-05_201), impaired for PCB in fish tissue and Enterococcus; Johnson Creek (MA84A-15_201), impaired for E.coli bacteria; and Johnsons Pond (MA84027-2014), impaired for mercury in fish tissue and dissolved oxygen. Once the new permit is released, Section 7 of the annual report will be updated to reflect changes associated with impaired waters and TMDL requirements. Water quality concerns associated with 303d waters are also addressed through the implementation of BMPs under the six minimum measures for Phase II.

Part IV. Summary of Information Collected and Analyzed

Groveland has approximately 975 catch basins and 86 outfalls located within its Urbanized Area. Known structures were mapped during efforts performed in 2008 and 2010. Since that time, additional structures have been located and/or constructed as part of new

developments and will be updated during mapping efforts anticipated to occur in conjunction with the new permit. The town has approximately 10 structural BMPs, mostly consisting of detention basins that it is responsible for maintaining. Approximately 60% of the town is on sewer (directed to the Haverhill treatment plant), with the remaining areas on local septic systems. The formerly combined storm/sanitary systems in the downtown area were fully separated in 1978.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

(# or %)	
(y/n)	Yes
(# or y/n)	1
(y/n or mi.)	Yes
(mi.)	
(#)	0 in-Town, several in nearby towns which residents may attend
(%)	
(tons or gal)	
(y/n)	No
	(y/n) (# or y/n) (y/n or mi.) (mi.) (#) (%) (tons or gal)

Legal/Regulatory

Degat/Regulatory	1		1	
	In Place			
	Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
 Illicit Discharge Detection & Elimination 				
Erosion & Sediment Control				X
Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")				
 Illicit Discharge Detection & Elimination 				
■ Erosion & Sediment Control				X
 Post-Development Stormwater Management 				X

Mapping and Illicit Discharges

(%)	
(#)	86
(%)	
(%)	
(%)	
(%)	
(# or %)	
(# or %)	
(#)	0
(#)	0
(#)	0
(est. gpd)	
(#)	0
(est. gpd)	
(%)	60
(%)	40
	(#) (%) (%) (%) (%) (# or %) (# or %) (#) (#) (#) (est. gpd) (#) (est. gpd) (%)

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	
construction stormwater control		
Site inspections (for proper BMP installation & operation) completed	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Yes
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	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.)	
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.)	(location)	
Cost of screenings disposal	(\$)	
Basin Cleaning Costs		
Annual budget/expenditure (labor & equipment)	(\$)	20,000.00
Hourly or per basin contract rate	(\$/hr or \$	20.00 per
	per basin)	basin
Disposal cost	(\$)	
Cleaning Equipment		
Clam shell truck(s) owned/leased	(#)	1 leased

Town of Groveland NPDES PII Small MS4 General Permit Annual Report

EPA NPDES Permit Number: MA041195 MassDEP Transmittal Number: W-035834

Vacuum truck(s) owned/leased	(#)	0
Vacuum truck(s) specified in contracts	(y/n)	0
% Structures cleaned with clam shells	(%)	100
% Structures cleaned with vactor	(%)	0
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Annual Sweeping Costs		
Annual budget/expenditure (labor & equipment)	(\$)	9,000.00
Hourly or lane mile contract rate	(\$/hr or \$/ln mi.)	105.00/hr
Disposal cost	(\$)	
Sweeping Equipment		
Number of rotary brush street sweepers owned/leased	(#)	1 leased
Number of vacuum street sweepers owned/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	No
% Roads swept with rotary brush sweepers	(%)	100
% Roads swept with vacuum sweepers	(%)	0
Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
 Fertilizers 	(lbs. or %)	Organic only
 Herbicides 	(lbs. or %)	n/a
Pesticides	(lbs. or %)	n/a
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

Anti-/De-Icing products and ratios	% NaCl	45
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% CaCl ₂	
	% MgCl ₂	45
	% CMA	
	% Kac	
	% KCl	
	% Sand	10
Pre-wetting techniques utilized	(y/n)	Yes
Manual control spreaders used	(y/n)	No
Automatic or Zero-velocity spreaders used	(y/n)	Yes
Estimated net reduction or increase in typical year salt/chemical application rate	(<u>+</u> lbs. or %)	
Estimated net reduction or increase in typical year sand application rate	(<u>+</u> lbs. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction or already in place	(y/n or #)	1 in place
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	(# or y/n)	No
Installed or planned treatment BMPs for public drinking water supplies and their protected areas	(# or y/n)	No
Treatment units induce infiltration within 500 ft of a wellhead protection area	(# or y/n)	No