

Municipality/Organization: Town of Newton, NH

EPA NPDES Permit Number: NHR041023

MassDEP Transmittal Number: W-

Annual Report Number Year 9
& Reporting Period: May 1, 2011 – April 30, 2012

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

Part I. General Information

Contact Person: Trisha McCarthy

Title: Chairman, Board of Selectmen

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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: Trisha Collins McCarthy

Title: Chairman, Board of Selectmen Chairperson

Date: 04/25/12

Part II. Self-Assessment

The Town of Newton has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions. The Town of Newton is looking for ways to improve the education regarding Storm Water Management and keeping ground water healthy. One successful way is through our Local Public Service TV channel and our Town Web Site. The Town of Newton continues to work with our cable committee in searching for new ways educate residents and possibly through social media, (which may be easier for our budget to handle). As a special note, we find it difficult without a Highway Department to complete all our tasks, but we have continued to improve our storm water management tasks since 2008, thanks to our Road Agent Mike Pivero. We only have two part time road crew employees and our Road Agent has them on a regular schedule for maintaining and cleaning culverts, catch basins, swales. Then last year we lost a road crew person, leaving us with only one part time road employee to maintain all the roads in town. Of course this makes it difficult but we are working on hiring another person to replace the one we lost. The Town of Newton has written some grants that were accepted and has worked on roads that were damaged as a result of severe weather conditions. Newton has a Trail Committee to assist in site walks to determine wet land areas of concern or run off. The plan was to schedule work groups to help remove rotted trees and debris from trails and wet lands, but our committee is suffering in low membership, so this is sluggish process. Newton has been fortunate in having Boy Scouts that have done road side clean up a couple of occasions during 2011 and spring of 2012. A warrant article passed in March of 2011 for Hazardous Waste Cleanup Day at the transfer station, and this was a huge success. Safe Harbor was hired to receive and process the items brought in by our residents.

Part III. Summary of Minimum Control Measures

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

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 10
	Bio-Monitor Day at Busch Farm w/Memorial School to teach children how to protect our water and what pollutants at home can cause unhealthy water	Conservation Commission	Annual Bio-monitoring day worked well in 2010 so it is will be planned again in 2012...	This activity was not held this year due to scheduling problems and limited committee participation.	We would like to try this again next year, and add a rain date.

Revised	General Public Education at the annual Family Fun Fair, using last years presentation on lap top and EPA bookmarks and DVD	Conservation Commission	The event was not help this year. We hope to have it in 2012	“After the Storm” laptop presentation to the public and hand outs were very successful in years past. This year we had a new Recreation Committee that decided not to host this event.	Conservation has encouraged it to happen again in 2012.
Revised	Con com produced a lap top presentation of conservation properties and how to protect wet lands	Conservation Commission	The school didn't plan this for this year.	Would like to work with school again to have this event. It was successful last year.	Would like to have this as a yearly event.
Revised	Con com attended class on controlling Bacteria and Hydrocarbons in Storm water Run-offs with Smart Sponge	Conservation commission	Shared this with the road agent as another alternative for road run- off and has kept this info for future use.	Liked this concept and will pass on to developers and planning board and building department. Produced by Environmental Products and Systems	Kept this information on file for distribution when needed.
Revised	Manure Management Seminar for residents with small hobby/type residents with horses chickens etc.	Conservation commission	This was well attended event to education the small horse hobbyist, but we couldn't complete this event this year.	This event was a great idea, but our cable TV network is not really user friendly. Northeast Recycling Council, Inc. gave us the information, but we couldn't get the word out efficiently. The plan is to hold this event again. Maybe as a yearly event. Need to better advertise it in hopes of getting more people to attend. Our cable channel committee is trying to get the equipment upgraded so we can do a better job of advertising this event	Plan this for next year 2012
Revised	Planning board is looking for options for community growth while working on BMP around wells, septic and wetlands	Planning Board	Working on ways to create vibrant village centers while still preserving open space.	Grant was accepted for the charrett. Now as residents come before the planning board with requests of various uses of their property, the planning board researches the approved village uses.	Continue public meetings on uses in the village district.

Revised						
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1a. Additions

	Hazardous Waste Day	Transfer Station manager	Warrant article passed by the residents. Held a Hazardous Waste day at the transfer station. Newton residents can bring items to transfer station for free	Very successful event. Clean Harbor was hired to run the day and receive, package and process the items residents brought. People brought solvents, paints, aerosols, pesticides, fluorescent tubes. The town paid \$22,368.89 to Clean Harbor for safe removal and disposal of items collected.	This has been very successful.
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 10
Revised	Follow Town Policy for notice requirements during a public hearing that requires a storm water management plan. Developers and residents will be reminded of BMP	Planning Board	Observe requirements for the storm water management plan	Continue to educate the public on BMP for storm water management	Continue to follow requirements and public notice for these parcels.
	General Public Lap top presentation to educate residents of healthy ground water around their home, as well as along the road and shoulder area.	Trisha McCarthy	To expose residents to as much education as possible, regarding our storm water management.	Conservation Commission completed site walks and did some clean up of trails along wetlands on the peanut trail and the Busch farm.	Would like to do this again next year. Many people has come forward saying they would participate in site walks. .

Revised	Transfer station has been approved for a voucher system for 2012	Transfer Station Manager	Residents will be allowed to lease items at transfer station, in hopes this will prevent contaminated ground water run off.	People will not be charged for items brought to transfer station and will be allowed two truckloads for the year. This will be easier for the employees to handle and will not put as much pressure on them by not having massive amounts of debris and rubbish in a concentrated period of time, since it can be spread out during the whole year.	If this is successful we may do it again in years to follow.
Revised	Stream Monitoring	Conservation Commission	School involvement	Boy scouts indicated they were interested in continuing this.	They hope to get this done for the next permit year.
Revised	Used Oil Collection Center	Transfer Station Manager	To encourage and educate the residents to bring their used oil to the transfer station.	Collected 1400 gallons this permit year	Will continue to encourage and educate public on the proper transportation of oil to transfer station
Revised	Residents have requested a compost pile at the transfer station	Transfer Station Manager	Now allow residents to bring their leaves to the transfer station in an area that will be rotated for compost made from leaves that residents can take from as the compost develops.	Have an area designated for residents to dispose of their leaves in the fall. Employees will turn over pile to make compost that residents can take for free.	Will continue this plan in next permit year. Residents seem excited about it.

2a. Additions

Residents					
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	Auto batteries have been collected at the transfer station	Transfer Station Manager	Residents are encouraged to bring batteries to dispose of them at the transfer station.	This year we were able to dispose of 6,067 lbs of batteries. This will keep the batteries from ending up in our wetlands and road side.	We will continue to monitor this.
	Electronics are also being collected to the transfer station.	Transfer Station Manager	Residents are encouraged to dispose of their electronics. We have adopted a senior discount policy to help our seniors with a discount when they bring in items.	This year we were able to dispose of 38,925 lbs of electronics.	We will continue to monitor this.
	Florescent Lights are also an item being collected at the transfer station	Transfer Station Manager	Residents are encouraged to dispose of the florescent lights.	This year we were able to dispose of 608 lbs of florescent lights. The hope is this will keep them out of the woods and encourage residents to bring them to us to dispose of properly.	We will continue to monitor this
	Tires are also being brought to the transfer station.	Transfer Station Manager	Residents are encouraged to bring their tires to transfer station. If a tire is brought in on a rim we don't charge them, but without a rim, there is a small charge. We have adopted a senior discount policy to help our seniors with a discount when they bring in items.	We were able to dispose of 84 tires this year.	We will continue to monitor this.
	Transfer Station has petitioned state for State Form 1-B allowing us a permit modification	Transfer Station Manager	This will allow us to receive, manage, transfer items that could damage the environment, manage waste in a more efficient manner.	This permit modification has just been requested.	We will continue with modification in hopes to transfer out items in a more proficient manner in an effort to enhance our environment.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 10
Revised	Map suspected areas	Road Agent	Map on file	Update yearly	We update
Revised	Inspections of culverts and catch basins	Road Agent	Regular report are completed and filed	Reports are on file with Road Agent	Continue reports and review and update as needed.
Revised	Aquifer Protection Ordinance	Planning Board & Conservation commission	Update as needed	Yearly review of ordinance with planning board and conservation commission	Continue review of ordinance
Revised	Wetland Zoning Ordinance and shoreline protection buffer	Planning Board & conservation commission	Update as needed	Yearly review of ordinance with planning board and conservation commission	Continue review of ordinance
Revised	Subdivision Regulations	Planning board and building department	Update as needed	Yearly review of regulation with building department and planning board	Continue reviewing regulations
Revised	Shoreland & Protection District & Regulations	Planning board & conservation commission	Update as needed	Review Shoreland Protection Act map of water bodies provided by the RPC	Continue reviewing regulation

3a. Additions

Replacement/repair Septic Systems	Health officer	Findings/Course of Action	New Construction 21, repaired 11 new construction septic systems and 23 replacement/repair systems and 0 new commercial systems.	Continue due diligence with replacement/repairs to failed septic systems
Yearly monitoring of groundwater quality at the Newton Landfill on Dugway Road	Town Administrator & Transfer station manager	Monitor the groundwater quality as outlined in the groundwater management permit issued in April 2002 by NHDES	Continue monitoring and report finding per the Groundwater Management Permit. Contract with R.W. Gillespie and Associates for this permit. Four monitoring wells in this area and all testing is fine.	Continue contracting with R.W. Gillespie and Associates, inc to continue monitoring the groundwater quality.

Code Enforcement	Code Enforcement Officer	Handle complaints concerning junk yards and zoning violations	Code enforcement officer is assisting four junk-yard type areas in town and clean up for the protection of ground water run off	Continue inspections at these locations and site walks with the conservation commission
Wetland Zoning Ordinance	Planning Board	Update as needed	Floodplain Development Ordinance amended to comply with National Flood Insurance Program	Update as needed
Web Site with link for storm water management. Also shows After the Storm on our local TV station.	Web Master Mary Winglass	Continue to add links regarding storm water management	Cable committee also posts on our local public service TV channel with updates and infomercials. Continuous playing "After the Storm" throughout the week.	Continue to improve and maintain

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 10
Revised	Subdivision regulations for both commercial and residential review	Planning board	Continue review and update zoning regulations	Working to update our ordinances and regulations according to legislative changes and suggestions made by our Rockingham Planning Commission. Hired a new code enforcement officer to assist in these inspections.	Continue review
Revised	Continue to work on Sediment Control	Road Agent, Planning Board, Building Dpt., and Conservation Commission	Regular inspections and corrective action when needed	Inspections are conducted by site walks from Planning Board, Conservation Commission, Town Engineer and Road Agent	Continue this practice
Revised	Erosion Control	Planning Board, Building Dept, Conservation Commission	Inspections and site walks when needed	New construction/subdivision erosion control inspections are conducted when needed by town engineer, planning board, conservation commission.	Continue inspections
Revised	Natural resources and environmental protection	Planning board & conservation commission	Site inspections and corrective actions as needed	Earth excavation regulations developed to control erosion, sedimentation, water pollution, air pollution & human safety hazards	Review on a regular basis and label areas of concern
Revised					
Revised					

4a. Additions

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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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –Permit Year 10
Revised	Revise existing Ordinances as needed	Planning board	Revise ordinance and work with conservation on updates	Continue inspections during and after project is complete. This in ongoing and we continue with the process	Continue to work with town engineer and Rockingham planning commission.
Revised	Catch Basins	Road Agent	Inventory catch basins	Keeping reports of catch basins	We keep track of sediments removed
Revised	Run-off caused by alteration of terrain <i>This location is in good shape and has corrected the run-off</i>	Planning Board	Have an engineering plan review after alteration of terrain	Complaint review regarding stormwater fun-off leaving Katherine Drive project and flooding CBI property on Whittier St. Town engineer authorized to study drainage issues. Recommendation made that will reduce flooding. This was monitored and there are not problems at this location.	Will continue to monitor site for any further issues during 2012
Revised	Alteration of terrain by shoreline at Country Pond <i>Permits have been filed with DES</i>	Conservation commission	Resident requested permission to remove trees by water's edge and another resident that was construction a retaining wall on Ridge Rd. This area is checked during the year for 2011 to make sure no development has taken place.	Conservation completed site walks at both locations and informed both residents that state permits would be required. Gave them the web site and a print out of regulation. Also gave them a copy of application.	Conservation Commission would like to find a way to distribute BMP around the water. Can't afford to mail to residents, so we may hand deliver. Will continue to work on this. We have also developed more information and presentations for the public during meetings and public events.

Revised							
Revised							

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
Revised	Catch basin clean up on a schedule throughout the year	Road Agent	Maintain according to BMP	Road crew has gone to training at the Annual convention storm water management.	Continue mapping catch basins and go road crew will go to training when available.
Revised	Map outfalls/catch basins/culverts	Road Agent	Map on file	Road crew monitors, cleans and documents areas and work completed	Continue to monitor subject areas

Revised	Schedule maintenance on outfalls/catch basins/culverts	Road Agent	Schedule and log maintenance	Weekly reports outlined maintenance performed by the road crew. Wrote a Hazard Mitigation Plan with the board of selectmen and waiting for approval by state.	Continue weekly reports.
Revised	Road Salt Reduction <i>Allowing residents to get sand at transfer station</i>	Road Agent Transfer station manager	Reduce salt on road during winter storms In hopes of preventing people buying salt we are giving them sand.	The road agent puts a 50/50 mixture on the roads during winter storms. In early winter and at end of winter he generally uses straight sand.	Continue using reduced salt on road during winter and no salt near shore land and wetlands.
Revised	Used Oil Collection Center	Transfer Station Manager	Continue to allow residents from Newton, East Kingston and south Hampton a place to recycle their used oil. 1400 gal were collected in this permit year	Continue this program	Continue to educate residents on the best management practices for delivering and transporting used oil to the Oil Collection Center.
	Warrant article for purchase of new sheds for transfer station storage of tires	Transfer station manager	To improve storage of tires taken into the transfer station in a proper building preventing run off	Warrant article passed, so we will be going out to bid for the sheds.	Sheds have been installed and are waiting for foundation to be poured..

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>N/A for Newton

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Approximately 1 box culverts was replaced.
 Approximately 50 storm drains were cleaned by Road Crew during Permit Year 9.
 Approximately 70-80 were cleaned permit year 9
 Approximately 7 culverts were replaced permit year 9
 Approximately added 4 culverts permit year 9

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering May 1, 2011 through April 30, 2012)

Programmatic

Stormwater management position created/staffed	(Preferred Units) (y/n)	Response N

Annual program budget/expenditures ** con com and road agent	(\$)	\$300.00
Total program expenditures since beginning of permit coverage	(\$)	\$400.00
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	75%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	½ mile
Shoreline cleaned since beginning of permit coverage	(mi.)	½ mile
Household Hazardous Waste Collection Days (warrant article approved for Amnesty Weekend in 2011)		
<ul style="list-style-type: none"> ▪ days sponsored ** one day ▪ community participation ** conservation & volunteers working on plan ▪ material collected ** 	(#)	
School curricula implemented	(# or %)	8
Voucher System approved by Town Warrant for resident trash/debris (bring to transfer station twice a year.	(y/n)	Y
	100%	

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination		X			
▪ Erosion & Sediment Control	X				
▪ Post-Development Stormwater Management		X			
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination		X			

▪ Erosion & Sediment Control	X		
▪ Post-Development Stormwater Management		X	

Mapping and Illicit Discharges

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

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	21
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 **	(#)	28

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	2x per yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	N/A
Qty of structures cleaned **	(#)	70
Qty. of storm drain cleaned **	(%, LF or mi.)	#50
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	20 cubic yards
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Town Property

Basin Cleaning Costs

• Annual budget/expenditure (labor & equipment)**	(\$)	\$5000.
• Hourly or per basin contract rate **	(\$15.00 per hr)	\$
• Disposal cost**	(\$)	0

Cleaning Equipment

• Clam shell truck(s) owned/leased	(#)	Hired out
• Vacuum truck(s) owned/leased	(#)	Hired out
• Vacuum trucks specified in contracts (contracted outside company's truck)	(y/n)	1
• % Structures cleaned with clam shells **	(%)	30%
• % Structures cleaned with vacuum **	(%)	60%

(Preferred Units) Response

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)	n/a
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	n/a
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	n/a
• Hourly or lane mile contract rate **	(\$/hr. or In mi.)	n/a
• Disposal cost**	(\$)	n/a
Sweeping Equipment		
• -Rotary brush street sweepers owned/leased: 2.0#	(#)	0
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	0
• % Roads swept with vacuum sweepers **	%	0

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers 6 applications per year	(400 lbs)	
▪ Herbicides	(lbs. or %)	n/a
▪ Pesticides	(lbs. or %)	n/a
Integrated Pest Management (IPM) Practices Implemented		
Insecticides used for prevention of "Triple EEE" Altosid WSP EPA registration 2724-448: 854 grams (1.9#) (used in catch basins) VectoBac CG: EPA registration GS 73049-10: 2.0# Agnique MMF: EPA registration 53263-28: 1/8 gal (16oz) BVA-2 MLO: EPA registration 70589-1: 1/8 gal (16oz)		
	(y/n)	N

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	25%
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	75%
Pre-wetting techniques utilized **	(y/n or %)	n/a
Manual control spreaders used **	(y/n or %)	100%
Zero-velocity spreaders used **	(y/n or %)	n/a
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	200 ton
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	400 ton
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	1
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	100%

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	0
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	n
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	n