

**Municipality/Organization:** Town of Exeter, NH  
**EPA NPDES Permit Number:** NHR041007  
**Annual Report Number & Reporting Period:** Year 12  
April 1, 2014 – March 31, 2015

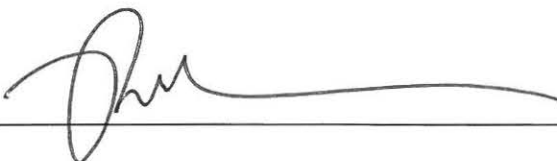
**NPDES PII Small MS4 General Permit  
Annual Report  
(Due: May 1, 2015)**

**Part I. General Information**

**Contact Person:** Jennifer Mates, P.E. **Title:** Assistant Town Engineer  
**Telephone #:** (603) 418-6431 **Email:** jmates@exeternh.gov  
**Mailing Address:** 13 Newfields Rd, Exeter, NH 03833

**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:** Russell Dean

**Title:** Town Manager

**Date:** 4/30/15

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#### **Part II. Self-Assessment**

The Town of Exeter has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, with the possible exception of the following provisions:

##### Part 1 C. Discharges to Water Quality Impaired Waters

1. The permittee must determine whether storm water discharges from any part of the MS4 contribute; either directly or indirectly, to a 303(d) listed water body.
2. The storm water management program must include a section describing how the program will control the discharge of the pollutants of concern and ensure that the discharges will not cause an instream exceedance of the water quality standards. This discussion must specifically identify control measures and BMPs that will collectively control the discharge of the pollutant(s) of concern. Pollutant(s) of concern refer to the pollutant identified as causing the impairment.

The Town of Exeter has been studying the Squamscott and Exeter Rivers because of a condition set in a new wastewater treatment facility (WWTF) permit. The permit has imposed stringent discharge limits on nitrogen. The permit requires: development of a total nitrogen non-point source (NPS) and point source accounting system; a nitrogen control plan be developed by 2018; a description and accounting of the activities by the town as part of its nitrogen control plan; and description of activities conducted which affect nitrogen in these rivers.

The town participated in a Water Integration for the Squamscott and Exeter Rivers (WISE) study throughout the year that addresses some of the issues required by the WWTF permit. Officials from the Towns of Exeter, Stratham and Newfields worked with a team from Geosyntec Consultants, the University of New Hampshire (UNH), Rockingham Planning Commission, Consensus Building Institute and the Great Bay National Estuarine Research Reserve to develop the study. A draft report was made available in March 2015. The WISE group studied integrated planning opportunities with neighboring communities to meet regulatory requirements for treating and discharging stormwater and wastewater and to find effective and affordable means to meet water quality goals.

The WISE project:

- Estimated stormwater nitrogen loads for the town
- Determined the most cost-effective BMP's for load reductions
- Established continuing water quality monitoring plans for the river
- Analyzed septic systems within 200 meters of major streams
- Provided structure for pollutant tracking and accounting
- Estimated substantial budget increases to the town for implementation
- Obtained tentative approval for fulfilling the required 2018 Nitrogen Control Plan

The town is also participating in the Great Bay Pollution Tracking and Accounting Pilot Program (PTAPP) coordinated by NHDES. The purpose of PTAPP is to enable coordination on nitrogen tracking and accounting for the Great Bay region.

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Another project that will affect the water quality of the Exeter River is the removal of the Great Dam. The town approved \$1.79 million in funds for this removal project in March 2014 after extensive analysis and debate. The project is currently under design and a wetlands permit application has been submitted. The Exeter River has an impounded reach within the town that is listed on the 2012 303(d) list of impaired waters. The Exeter River impoundment is created by the Great Dam, a head-of-tide dam which is owned by the town. The 36 acre impoundment is impaired for Aquatic Life Use (dissolved oxygen, and dissolved oxygen saturation), and Primary Contact Recreation (e.coli and chlorophyll). The desired outcome as this project moves forward and the dam is removed, is that the river will be restored to fully support designated uses of Aquatic Life Use support and Primary Contact Recreation. Additionally, without the impoundment, the river will be free of water quality impediments to fish migration, and in a state of geomorphic equilibrium. Ultimately, the river within Exeter will have dissolved oxygen concentrations sufficient for maintaining aquatic life and chlorophyll a, and bacteria concentrations that do not pose a risk for primary contact recreation.

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#### **PUBLIC EDUCATION & OUTREACH**

##### **BMP #1 DISPLAY AT ALEWIFE FESTIVAL**

This particular festival no longer takes place. However at the October 2014 Exeter Fall Festival, the Conservation Commission had a booth that provided education about rain barrels and stormwater pollution.

##### **BMP #2 STENCIL STORM DRAINS**

All catch basins in town were stenciled or touched up with the message “Attention – Drains to Local Waterway” as needed.

##### **BMP #3 STORMWATER VIDEO ON LOCAL PUBLIC STATION**

No videos were played on local public station; however, the Town has the following educational videos on the town website: “Stormwater Rubber Duck” PSA; “Devil Duck Lawn Care” PSA; “Rain Storm” Radio Ad; and, “Car Wash” Radio Ad.

The Conservation Commission and River Study Committee meetings provide information the local stormwater program and are televised. The stormwater education program “Think Blue Exeter” is a subcommittee of the River Study Committee, so their activities are presented during these televised meetings. Also, the Board of Selectman’s televised meetings included presentations about the progress and results of the WISE project.

##### **BMP #4 DISPLAY AT TOWN BUILDING**

There is a permanent educational sign detailing a stream buffer at popular local park. This location is adjacent to the Squamscott River and highlights stream buffers can improve water quality.

During the month of September, a “SepticSmart” display was located at the town office, along with hand outs. The display addressed proper septic system construction and maintenance.

“Runoff Returns” handouts are on display and available that educates residents on good housekeeping practices including the use of lawn fertilizer and chemicals.

#### **ADDITIONS-**

Town Website and Facebook pages –

- “Think Blue Exeter” – general stormwater education, water quality in Exeter’s streams & rivers, simple changes to reduce stormwater pollution.
- “Drug Take Back Day” – Exeter Police Department participates in National Drug Take Back Day, which allows residents to drop off household and prescription drugs at the police department to prevent improper disposal.
- “Drug Drop-Off Box” – Exeter Police Department – The Exeter Police Department has taken a step further to help protect our waterways by providing a safe, sustainable and secure method to dispose of

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unwanted and/or expired household and prescription medications by installing a secured container in the lobby of the Police Department.

- “Household Hazardous Waste Collection Day” – Exeter continues to host the once per year collection of household hazardous waste. The collection is coordinated by the Rockingham Planning Commission and includes Exeter and four other communities.
- Announcements for Spring 2014 and Fall 2014 leaf collection, and January 2015 Christmas tree pickup. Each Town resident was permitted to have ten bags of leaves picked up for free in the spring and fall 2014. The leaves were distributed to a compost pile and residents are allowed to use the compost.

#### **Newspaper Articles –**

- Announcements for Spring 2014 and Fall 2014 leaf collection and January 2015 Christmas tree pickup.
- Announcements for Household Hazardous Waste Collection Day and Drug Take Back Day

## **PUBLIC PARTICIPATION**

### **BMP #5 PUBLIC NOTICE**

Completed 1<sup>st</sup> year

### **BMP #6 REVIEW NEED FOR STORMWATER COMMITTEE**

No additional review for a stormwater committee; however, the education program “Think Blue Exeter” is a subcommittee of the Exeter River Study Committee. Information on activities of the subcommittee is presented at various meetings, which are televised and open to the public. The majority of committee members are local residents.

The Exeter River Study Committee and Exeter Great Dam Working Group has conducted many outreach presentations dealing with possible removal of the Great Dam which would return the lower Exeter River to its natural state improving water quality and native fish populations.

The CAPE (Climate Adaptation Plan for Exeter) study involves requires much community involvement. The study will estimate the effects of climate change within the town. There were several public meetings that also included neighborhood and stakeholder focus groups. The CAPE officials have attended and will continue to attend meetings with the town staff and volunteer boards. The technical team focused on creating stormwater, flooding and water quality models. The project is expected to be complete in the Fall 2015.

### **BMP #7 STENCIL STORM DRAINS**

All catch basins in town were stenciled with the message “Attention – Drains to Local Waterway” by town employees and the stencils repainted as needed.

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#### **ADDITIONAL PUBLIC PARTICIPATON**

Rain barrels were available for residents to purchase (22 sold in 2014).

Volunteer River Assessment Program monitoring (8 sites, on 3 to 4 occasions between May and August) Exeter-Squamscott River Local Advisory Committee (ESRLAC) – volunteers representing the twelve communities in the Exeter-Squamscott River watershed; Town of Exeter Selectman, Don Clement is committee chair.

Annual Fish Ladder Tour – On May 17, 2014, ESRLAC partnered with the Exeter Conservation Commission and NH Fish & Game for the annual tour of the fish ladder located next to the Great Dam in downtown Exeter. As always, this event attracted a large crowd interested in learning about the annual fish migration from the salt water of the Squamscott River to the fresh water of the Exeter River.

A National Trails Day event was sponsored by the Exeter Conservation Commission on June 7, 2014. The event highlighted the Little River Conservation area.

#### **ILLCIT DISCHARGE DETECTION AND ELIMINATION**

##### **BMP #8 SURVEY OUTFALLS**

Drainage system and outfalls in the Linden Commons, Rinny Lane and Wright Lane neighborhoods were surveyed by a consultant and entered into the Town's GIS mapping.

##### **BMP #9 MAP/UPDATE OUTFALLS**

Stormwater drainage area watershed delineation/mapping was completed for the Town by a consultant to support future WWTF permit conditions and MS4 requirements. The series of maps and associated tables were developed within the more intensely populated areas of town including outfalls, drainage pipes, pipe type, pipe diameter, manholes, catch basins and associated drainage areas for the outfalls.

##### **BMP #10 ORDINANCE TO PROHIBIT NON-STORMWATER DISCHARGES**

Existing Storm Drainage Ordinance prevents illegal discharges to drainage system, with fines. Ordinance will be reviewed and updated as needed after the new (2013 Draft) MS4 General Permit for New Hampshire is issued.

##### **BMP #11 CREATE EDUCATION FOR BUSINESSES**

"Think Blue Exeter" – General Stormwater Education - No specific education for businesses this year.

##### **BMP #12 HOTLINE**

Police Dispatch and Exeter Department of Public Works

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#### **BMP #13 SAMPLE SUSPECT OUTFALLS**

Canine investigations of the storm drainage systems in the Summer/Salem Street neighborhood were performed in December 2014. Samples were collected and tested in the area. The results of the Summer/Salem Street samples indicate that further monitoring should be performed. A plan for additional monitoring and potential corrective actions is being developed.

Samples were also collected in the Wheelwright Creek watershed which indicated that the corrective actions taken for a problem identified in 2012 were successful in eliminating an illicit connection.

#### **BMP #14 TEST SUSPECT CONNECTIONS**

Infiltration/inflow investigations were performed in several locations throughout town, including manhole inspections, smoke testing, building inspections and flow evaluations. Several issues were found and corrected, reducing the potential for Combined Sewer Overflows (CSOs).

Approximately 4,000 linear feet of stormwater collection piping in the Summer/Salem Street neighborhood were cleaned and inspected via CCTV camera.

#### **BMP #15 CORRECT ILLICIT CONNECTIONS**

A drain pipe that discharged to the tidal portion of the Squamscott River was found to be connected to the sewer collection system. It was estimated that 3 to 4 million gallons a day peak flow rate into the sewer during extreme high tide events from this connection. The connection was immediately disconnected from the sewer system.

A catch basin was discovered to be tied into the sewer collection system, which was immediately disconnected. It was estimated that this connection contributed 4 to 6 million gallons per year and 2 million gallons per day peak hour flow during intense rainfall events.

#### **ADDITIONAL EFFORTS**

One new “pet waste station” (bags and disposal container) was installed at the intersection of Linden Street and Deep Meadow Lane, bringing the total in town to 18 stations. A full list of the locations is provided on the Town’s website.

#### **CONSTRUCTION SITE RUNOFF CONTROL**

##### **BMP #16 UPDATE SITE REGULATION**

Completed – The Town will review and update the stormwater regulations as needed after the new MS4 General Permit for New Hampshire is issued.

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#### **BMP #17 SITE PLAN REVIEW FOR ALL CONSTRUCTION PROJECTS GREATER THAN 1 ACRE**

The Technical Review Committee (TRC) reviews all development greater than 1 acre, with a focus on construction and post-construction erosion controls and stormwater Best Management Practices (BMPs).

#### **BMP #18 SITE INSPECTIONS**

Projects are inspected throughout construction for all development greater than one acre to monitor stormwater management and erosion controls.

#### **BMP #19 DEVELOP AND IMPLEMENT CONSTRUCTION SITE INFORMATION AND REPORTING PROGRAM**

Town construction projects are posted on the town website and social media sites with contact information.

An emergency contact list for all privately owned construction projects is updated regularly and distributed to emergency response personnel.

#### **POST CONSTRUCTION RUNOFF CONTROL**

#### **BMP #20 IMPLEMENT SITE APPROPRIATE NON-STRUCTURAL, STRUCTURAL, INFILTRATION, AND VEGETATIVE PRACTICES**

BMPs are in place as per Planning Board approved plans

Stormwater BMP's are being incorporated into town projects. A consultant prepared preliminary sketches and designs for tree well treatment systems for an up-coming sidewalk project in the downtown area.

#### **BMP #21 DEVELOP AND IMPLEMENT LONG TERM OPERATION AND MAINTENANCE PROGRAM FOR BMPs**

Maintenance Agreements and Maintenance Plans are implemented during planning and construction process

#### **ADDITIONS –**

Stormwater inspections were performed at several subdivision and site plan developments with deficiencies identified. Maintenance Agreement "report cards" were developed for the following properties:

- Linden Commons Subdivision
- Wright Lane Subdivision
- Beech Hill Estates Subdivision
- Exeter Commons
- Sewall Property at 149 Epping Road
- Hampton Inn

#### **POLLUTION PREVENTION AND MUNICIPAL GOOD HOUSEKEEPING**

#### **BMP #22 CREATE POLLUTION PREVENTION & GOOD HOUSEKEEPING PROGRAM FOR MUNICIPAL EMPLOYEES**

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The following training was completed within the last year:

- All town employees involved in snow plowing were trained on equipment calibration, attended UNH T2 Green SnowPro training course, and received NHDES Salt Applicator Certification;
- Eight public works personnel completed an educational class through the UNH T2 School Road Scholar Program on culvert maintenance and obtained Culvert Maintainer Certification;
- The Town Engineer and Highway Superintendent completed the UNH Stormwater Symposium on permeable pavers;
- The Town Engineer attended a workshop on surface gravel wetland systems;
- Individuals from Water and Sewer Department and Highway Department attended "Construction Erosion and Sediment Control Inspections and Compliance Training for New Hampshire MS4 Communities;"
- DPW Director and some employees of Exeter Department of Public Works attended "Nitrogen in Stormwater: Sources and Solutions Workshop;" and,
- Exeter Town Planner and Natural Resource Planner attended a rain garden installation workshop.

Stormwater Prevention Plan Spill Kits were purchased for the Public Works Department and distributed throughout the facilities.

The Exeter DPW Director is a member of the WISE program and the Exeter Town Planner is a member of the CAPE program.

#### **BMP #23 SWEEP STREETS**

All streets swept spring and fall; downtown and other major areas – more than twice a year; parking lots – once per year

#### **BMP #24 INSPECT CATCH BASINS**

A tablet computer was purchased and used to document stormwater management inspections and facilitate mapping updates. The inspections are entered in to People GIS and allow for photos to be assigned as an attribute. 780 catch basins were inspected this year.

#### **BMP #25 CLEAN CATCH BASINS**

A total of 780 catch basins were cleaned in this year.

**Town of Exeter, NH**  
**Land Use Development Tracking Worksheet**



| Map / Lot No.<br>024-005-000                |                                                             | Zoning District<br>RU                                           |                             | Project Name                             |                                                      | Exeter File No.<br>44 CAPTAIN'S WAY                                |  |
|---------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|--|
| Planning Board #                            |                                                             | Approval Date                                                   |                             | Occupancy Date<br>7/14/14                |                                                      | Source Reference Material<br>BUILDING FILE / GIS                   |  |
| Within Shoreland Protection<br>No           |                                                             | Name of Water Body                                              |                             | Distance from Water (Ft)                 |                                                      | Buffer Size (SF)                                                   |  |
| Land To (SF)                                | Turf / Grass<br>5440                                        | New Impervious<br>6450                                          | Imp. Removed                | Disconnected Imp.                        | Agr. / Pasture                                       |                                                                    |  |
| Previous                                    | WOODS                                                       | WOODS                                                           |                             |                                          |                                                      |                                                                    |  |
| Soil Type                                   |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Percent Disconnected                        | 0%                                                          |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Infiltration Rate                           |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Description of soil / landscape restoration |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Estimated annual runoff                     |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Type of Agricultural / Pasture use          |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Wetland areas filled (SF)                   |                                                             |                                                                 |                             | Wetland areas restored (SF)              |                                                      |                                                                    |  |
| Sewer Connection<br>No                      |                                                             | Septic System Type<br>CONVENTIONAL                              |                             | Design Flow (Gal)<br>450                 |                                                      | Maintenance Required and Frequency<br>INSPECT / PUMP EVERY 3 YEARS |  |
| New / Rebuilt<br>NEW                        |                                                             | Name of closest Water Body to Septic System<br>ROCKY HILL BROOK |                             |                                          | Distance to closest Water Body (Ft or Mi)<br>1690 Ft |                                                                    |  |
| BMP No.                                     | BMP Type                                                    | BMP Description                                                 | GPS Coordinates             |                                          | Drainage Area (SF)                                   | Design Storm (in)                                                  |  |
|                                             |                                                             |                                                                 | Latitude                    | Longitude                                |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| BMP No.                                     | Water Quality Volume (CF)                                   | Percent Runoff Volume Reduction                                 | Disconnection Multiplier    | Effective Impervious (SF)                | Underdrained                                         |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| BMP No.                                     | Description of required maintenance and scheduled frequency |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| BMP No.                                     | Annual N Load to BMP (lbs N/Yr)                             | N Removal Efficiency (%)                                        | N Load Reduction (lbs N/Yr) | Cumulative N Load Reduction (lbs N/Yr)   |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |
| Parcel Existing Annual N Load (lbs N/Yr)    |                                                             | Total Parcel N Load Reduction (lbs N/Yr)                        |                             | Parcel Proposed Annual N Load (lbs N/Yr) |                                                      |                                                                    |  |
|                                             |                                                             |                                                                 |                             |                                          |                                                      |                                                                    |  |

ATTACHMENT 10 - PRELIMINARY NITROGEN TRACKING SUMMARY TABLE  
TOTAL NITROGEN CONTROL PLAN ANNUAL REPORT FOR 2014  
Wright-Pierce, 9 March 2015

| Category      | Wastewater      |             |         |                    |                                        |                            |                            |                                      |                   | Stormwater                            |                               | Land Use                                       |                                                   |                                        |                                   |                                                          |                                                      |
|---------------|-----------------|-------------|---------|--------------------|----------------------------------------|----------------------------|----------------------------|--------------------------------------|-------------------|---------------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------|----------------------------------------|-----------------------------------|----------------------------------------------------------|------------------------------------------------------|
| Parcel        | Zoning District | Class       | Sewered | Septic System Type | Septic System <200m from Surface Water | Septic System Install Year | Rebuilt, New or No Change? | Permitted Bedrooms for Septic System | Design Flow (GPD) | Structural BMPs Installed             | Non-Structural BMPs Installed | Land Converted to Turf/Grass from Natural (SF) | Land Converted to Turf/Grass from Impervious (SF) | Existing Impervious Cover Removed (SF) | New Impervious Cover Created (SF) | Amount of New Impervious Cover that is Disconnected (SF) | Land Converted to Agriculture Fields / Pastures (SF) |
| 098-023-0000  | R-1             | Residential | No      | Bio-Kinetic (TNT)  | Yes                                    | 2014                       | Rebuilt                    | 4                                    | 600               | -                                     | -                             | -                                              | -                                                 | -                                      | -                                 | -                                                        | -                                                    |
| 100-001-0000  | R-1             | Residential | No      | Conventional       | No                                     | 2014                       | Rebuilt                    | 4                                    | 600               | -                                     | -                             | -                                              | -                                                 | -                                      | -                                 | -                                                        | -                                                    |
| 038-010-0000  | R-1             | Residential | No      | Conventional       | No                                     | 2014                       | New                        | 4                                    | 600               | -                                     | -                             | -                                              | -                                                 | -                                      | 2,380                             | 2,380                                                    | -                                                    |
| 085-087-0001  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | 3,100                                          | -                                                 | -                                      | 3,630                             | -                                                        | -                                                    |
| 087-023-0003  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 4,940                             | 4,940                                                    | -                                                    |
| 055-056-0000  | C-3             | Commercial  | No      | Conventional       | Yes                                    | 2005                       | No Change                  | 2                                    | 300               | -                                     | -                             | -                                              | -                                                 | -                                      | 24,550                            | 24,550                                                   | -                                                    |
| 024-005-0000  | RU              | Residential | No      | Conventional       | No                                     | 2014                       | New                        | 3                                    | 450               | -                                     | -                             | 5,440                                          | -                                                 | -                                      | 6,450                             | -                                                        | -                                                    |
| 073-149-0009  | C-1             | Commercial  | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 1,370                             | -                                                        | -                                                    |
| 095-079-0010  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | Note all 5 parcels are Linden Commons |                               | 9,690                                          | -                                                 | -                                      | 3,610                             | -                                                        | -                                                    |
| 095-079-0001  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 |                                       |                               | 6,400                                          | -                                                 | -                                      | 2,840                             | -                                                        | -                                                    |
| 095-079-0009  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 |                                       |                               | 5,260                                          | -                                                 | -                                      | 4,210                             | -                                                        | -                                                    |
| 095-079-0018  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 |                                       |                               | 4,210                                          | -                                                 | -                                      | 3,220                             | -                                                        | -                                                    |
| 095-075-0017  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 |                                       |                               | 4,610                                          | -                                                 | -                                      | 3,940                             | -                                                        | -                                                    |
| 090-033-0002  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 860                               | 860                                                      | -                                                    |
| 063-276-0000  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | 380                                               | 380                                    | -                                 | -                                                        | -                                                    |
| 064-105-0086  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | 920                                               | 920                                    | -                                 | -                                                        | -                                                    |
| 085-086-0000  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 310                               | -                                                        | -                                                    |
| 018-014-0000  | RU              | Residential | No      | Conventional       | Yes                                    | 2001                       | No Change                  | 4                                    | 600               | -                                     | -                             | -                                              | -                                                 | -                                      | 2,080                             | 2,080                                                    | -                                                    |
| 017-011-0001  | RU              | Residential | No      | Conventional       | Yes                                    | 2001                       | No Change                  | 5                                    | 750               | -                                     | -                             | -                                              | -                                                 | -                                      | 3,080                             | 3,080                                                    | -                                                    |
| 094-028-0000  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 530                               | -                                                        | -                                                    |
| 071-009-0000  | C-1             | Commercial  | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | -                                                 | -                                      | 480                               | -                                                        | -                                                    |
| 064-105-0055  | R-2             | Residential | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | 1,020                                             | 1,020                                  | -                                 | -                                                        | -                                                    |
| 072-070-0000  | C-1             | Commercial  | Yes     | -                  | -                                      | -                          | -                          | -                                    | -                 | -                                     | -                             | -                                              | 4,290                                             | 4,290                                  | -                                 | -                                                        | -                                                    |
| <b>Totals</b> |                 |             |         |                    |                                        |                            |                            | <b>26</b>                            | <b>3,900</b>      | <b>0</b>                              | <b>0</b>                      | <b>38,710</b>                                  | <b>6,610</b>                                      | <b>6,610</b>                           | <b>68,480</b>                     | <b>37,890</b>                                            | <b>0</b>                                             |

|      |   |           |
|------|---|-----------|
| Key: |   | Unknown   |
|      |   | Estimated |
|      | - | None      |
|      | # | Known     |

# INTEGRATED WATERSHED PLAN FOR THE SQUAMSCOTT-EXETER RIVER

## PRELIMINARY DRAFT

*Prepared for*

**Towns of Exeter, Stratham, and Newfields, New Hampshire**

The Science Collaborative of the National Estuarine Research Reserve (NERR)

January 23, 2015

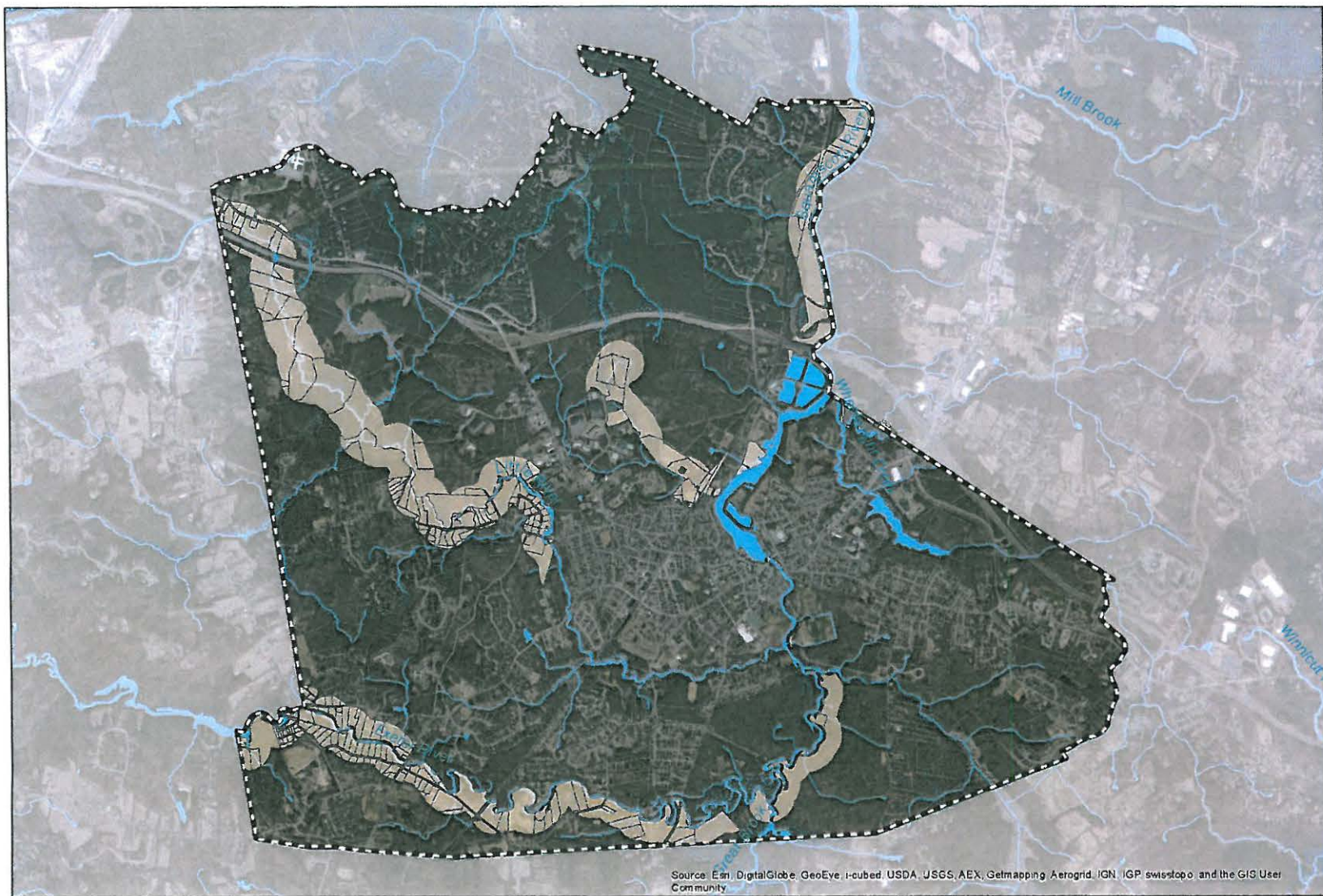
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DRAFT



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

#### Legend

-  Septic within 200 meter buffer
-  Watershed Boundary
-  Hydrology
-  Parcel Boundaries

**Layer/Data Sources:**  
 New Hampshire Dept.  
 of Environmental Services;  
 Rockingham Planning Commission;  
 National Hydrography Dataset;  
 Town of Exeter

**NOTE:**  
 Future work may include  
 data on septic system ages



0 375 750 1,500  
 Meters

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January 2015

**DRAFT**  
**AREAS WITH SEPTIC SYSTEMS WITHIN**  
**200 METERS OF MAJOR TRIBUTARIES OF THE**  
**SQUAMSCOTT-EXETER RIVER WATERSHED**  
**IN EXETER, NH**

## WISE Attached Algae Monitoring - June-July and Aug- Sept 2014 Deployments

| Station ID | Station Name        | Waterbody                | Location                                       |
|------------|---------------------|--------------------------|------------------------------------------------|
| WISEAA-001 | Haigh Road          | Exeter R.                | Haigh Road Brentwood                           |
| WISEAA-002 | Pickpocket          | Exeter R.                | Pickpocket Dam                                 |
| WISEAA-003 | Great Brook         | Great Br.                | Shaw Hill Rd. / Rte 150                        |
| WISEAA-004 | Little River        | Little R.                | Chadwick La/Gilman St.                         |
| WISEAA-005 | Gilman              | Exeter R.                | Gilman St./Gilman La                           |
| WISEAA-006 | High St.            | Exeter R.                | High St. (Rte. 108)                            |
| WISEAA-007 | Swasey              | Exeter R.                | 0.75 km below String Bridge                    |
| WISEAA-008 | Wheelwright         | Wheelwright Cr.          | Exeter Country Club below Parkman Creek Confl. |
| WISEAA-009 | River Road          | Squamscott R.            | River Road                                     |
| WISEAA-010 | SWMP RR Bridge      | Squamscott River Estuary | RR Bridge, Stratham                            |
| WISEAA-011 | EPSCoR Wiswall      | Lamprey R.               | Wiswall Dam, above dam, at EPSCoR station      |
| WISEAA-012 | WRRRC Packers Falls | Lamprey R.               | Packers Falls, upstream of bridge              |
| WISEAA-013 | SWMP Lamprey        | Lamprey River Estuary    | Downtown Newmarket, Below Falls                |
| WISEAA-014 | SWMP Oyster         | Oyster River Estuary     | Durham, 500 m below dam, Jackson Landing       |
| WISEAA-015 | SWMP Buov           | Great Bav                | Mid Great Bav                                  |

# Attached Algae Indicator Monitoring

## Controls Natural Variables:

- Flow
- Light
- Substrate
- Time

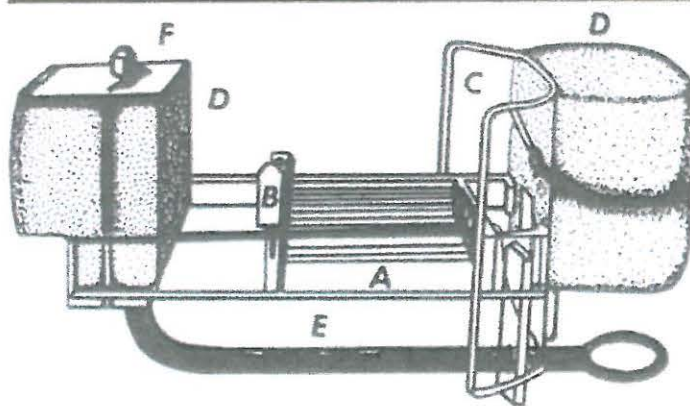
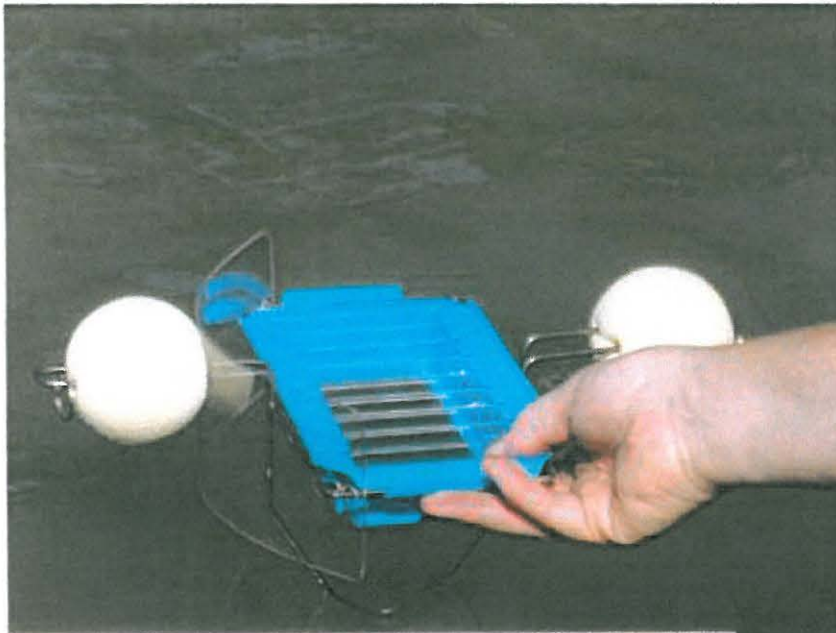
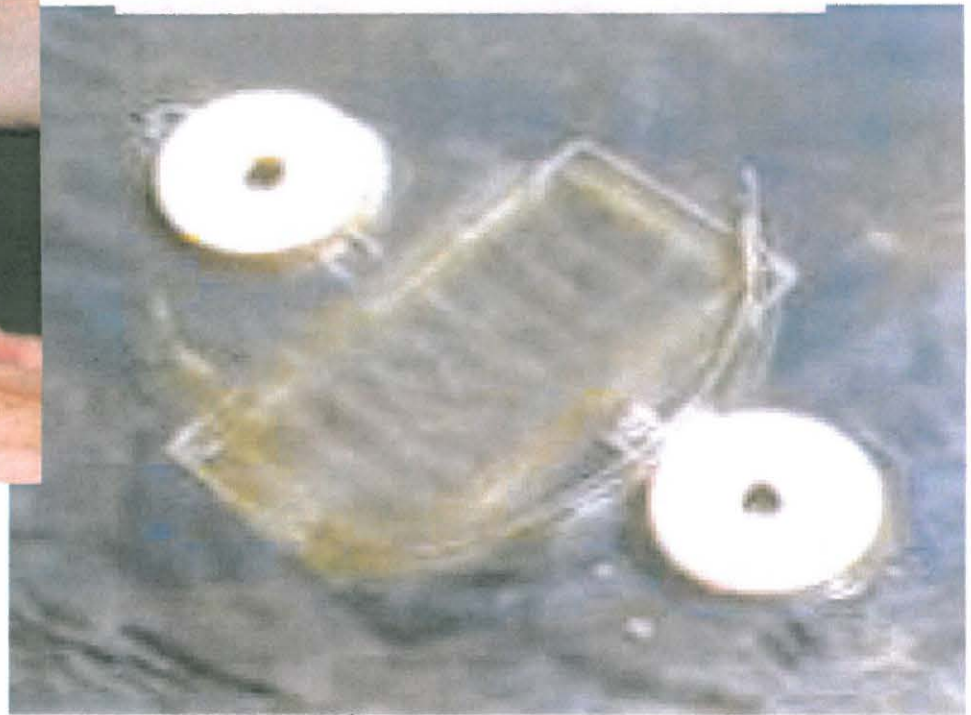


FIG. 2—Catherwood diatometer: (A) slide holder, (B) retaining bar, (C) deflector, (D) styrofoam float, (E) brass rod, and (F) identification tag.



# Great Bay Pollution Tracking and Accounting Pilot Project (PTAPP)

## What is PTAPP?

The Great Bay estuary exhibits symptoms of pollution: low dissolved oxygen in tidal rivers, increased macroalgae, and declining eelgrass. Most pollution originates from sources spread across the watershed including septic systems, fertilizers and air pollution. Stormwater runoff from developed areas is a major pathway for pollutants.

Watershed communities are facing regulatory measures to improve water quality in Great Bay and its tributaries. These requirements include implementation and tracking of pollution control activities; however, tracking and quantifying project success is challenging and expensive. Communities agree that regional coordination is needed to leverage scarce financial resources and develop a consistent, effective tracking system.



*Aerial View of Great Bay*

The PTAPP is a cooperative forum for communities to work toward identifying key components, needs, and next steps for successful implementation of a consistent regional system. Goals include progress toward development of: 1.) a **Tracking Tool** to track activities that affect pollutant loads, and 2.) an **Accounting System** to credit activities and estimate pollutant load reductions.

## PTAPP Process, Outcomes and Benefits

The PTAPP **process** includes six facilitated workgroup meetings held over the course of one year beginning in February 2015. During meetings, participants will develop a shared agreement and understanding of principal technical components, resource needs, and next steps for regional tracking and accounting. Each meeting will have an identified goal and outcome and will build on results from similar efforts such as those conducted in Chesapeake Bay and Long Island Sound. The PTAPP process will ultimately result in an Implementation Framework describing system recommendations and next steps for implementation including approach, roles, resources, and timeline. **Summary of anticipated PTAPP outcomes :**

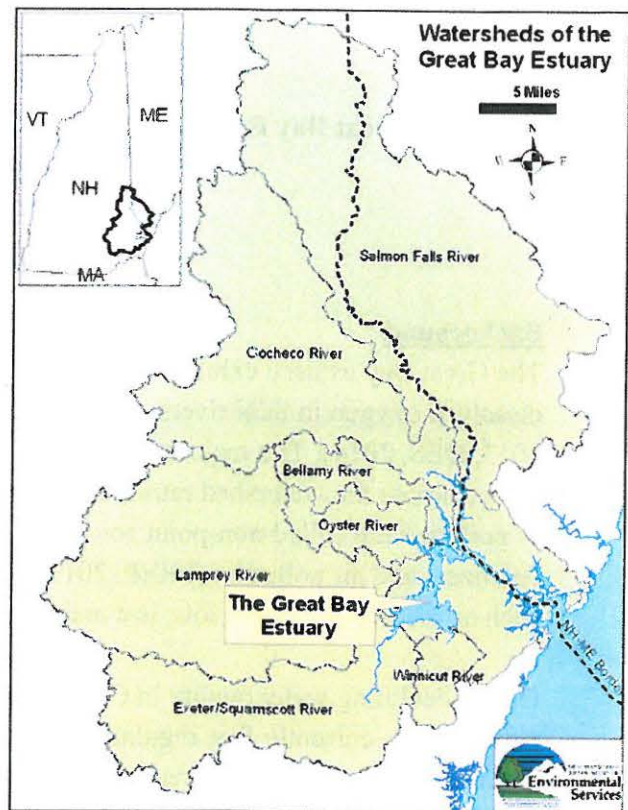


*This bioretention unit is an example of a stormwater management activity that would be tracked and credited.*

- Progress toward regional agreement is achieved.
- Additional needs are identified (funding, technology, etc.).
- Roles and responsibilities are described.
- Implementation Framework is created.

Municipalities in the Great Bay region seek to create a regional tracking system that is economical, easy to implement, and meets regulatory needs. PTAPP **benefits** include the following:

- **Economic:** Financial resources are leveraged at the regional level so that municipalities do not shoulder costs individually.
- **Regulatory:** A consistent regional accounting system and tracking tool will help meet municipal permit requirements.
- **Social:** Regional coordination promotes common understanding of needs and identifies opportunities for collaboration and resource-sharing.
- **Environmental:** Regional pollution management and tracking will likely result in measurable water quality improvement over time.



PTAPP focus area

## Who is participating?

Participants include representatives from municipalities in the Great Bay estuary region, consultants, state and federal agencies, regional planning commissions, watershed planning groups, regulators, and other interested attendees.

The NH Department of Environmental Services and the University of New Hampshire Stormwater Center will provide leadership and facilitation for the process.

Participants are encouraged to make the process "their own" and will be provided opportunities for input into meeting agendas, content, and outcomes.

## PTAPP Schedule

The PTAPP process includes six workgroup style meetings held over the course of one year. Each meeting has a target outcome to build progress toward completion of the Implementation Framework.

### Anticipated Project Schedule

| Expected Date  | Major Task                                          | Target Outcome                      |
|----------------|-----------------------------------------------------|-------------------------------------|
| February 2015  | Meeting 1: Tracking Criteria                        | Draft tracking criteria             |
| March 2015     | Meeting 2: Accounting Credits                       | Draft accounting credits            |
| April 2015     | Meeting 3: Accounting System - Criteria and Credits | Accounting System recommendations   |
| May 2015       | Meeting 4: Define Tracking Tool                     | Conceptual Tracking Tool developed  |
| June 2015      | Meeting 5: Tracking Tool (continued)                | Tracking Tool recommendations       |
| September 2015 | Meeting 6: Implementation Framework                 | Key components identified           |
| October 2015   | Draft Implementation Framework review               | Participants finalize framework     |
| December 2015  | Final Implementation Framework released             | Implementation of next steps begins |

**Important Note:** PTAPP is a pilot project with limited resources and timeframes; therefore, realistic expectations for the project schedule and outcomes will be maintained during the project.

## Project Contacts:

**James Houle**  
**UNH Stormwater Center**  
**35 Colvos Road**  
**Durham, NH 03824**  
**(603) 862-4024**

**Sally Soule**  
**NH Department of Environmental Services**  
**222 International Drive, Suite 175**  
**Portsmouth, NH 03801**  
**(603) 559-0032**



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## Stormwater

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Rain and snowmelt (stormwater) on buildings, streets, parking lots, and other impervious surfaces cannot soak into the ground. As stormwater moves across these hard surfaces it collects dirt, debris, and chemicals carrying them directly to our rivers and streams.

In March 2003, Exeter was required to apply to the Environmental Protection Agency (EPA) for a permit to discharge stormwater. In order to meet the requirements of the permit, Exeter must reduce pollutants in stormwater discharges to the "maximum extent practicable." The permit required development of a Stormwater Pollution Prevention Plan (SWPPP) to address how we would reduce stormwater pollution. We continue to look for feedback and input from the public.

Please click the link below to proceed to the Think Blue Exeter program!

### Supporting Documents

- [2003 Small MS4 General Permit](#)
- [2013-2014 Annual Stormwater Report](#)
- [2003 Notice of Intent](#)

### Web Links

[Think Blue Exeter](#)  
[NPDES New England Permit Archives \(scroll to find Exeter\)](#)

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### Contact

**Public Works Complex:**  
13 Newfields Road  
Exeter, NH 03833  
P) 603-773-6157  
F) 603-772-1355  
**Info line:** 603-418-6450  
**Emergency:** 603-772-1212  
(nights, weekends or holidays)  
**Hours:**  
Monday - Friday  
7:00 AM - 3:30 PM

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**Unitil Gas Emergencies:**  
866-900-4115

**Transfer Station:**  
9 Cross Road  
Exeter, NH 03833  
**Hours:**  
Tuesday: 9:00 AM - 2:30 PM  
Thursday: 1:00 PM - 4:00 PM



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## Think Blue Exeter

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As rain and snow-melt, also known as stormwater, while it flows across streets, parking lots, and other hard surfaces it collects dirt, debris, and chemicals carrying them directly to our rivers and streams. This polluted run-off is called Stormwater Pollution. Our habits play a major role in this type of pollution.

Visit Think Blue Exeter to learn about ways you can help reduce Stormwater Pollution because...CLEAN WATER STARTS WITH YOU!!!

### What is Stormwater Pollution?

As stormwater (or rain and snow-melt) flows across buildings, streets, parking lots, and other hard surfaces it collects dirt, debris, and chemicals and carries them directly to our rivers and streams. Collectively, these surfaces which do not allow water to penetrate are called impervious surfaces. The polluted run-off that flows across them and into our streams is called Stormwater Pollution.

### What's the Water Quality Status of Exeter's Streams and Rivers?

As a result of water testing, NH Department of Environmental Services has designated the majority of Exeter's streams and rivers as "impaired" for one or more uses. This means the water contains pollutants which can be harmful to aquatic life, fish consumption, or humans during either direct or indirect contact.

To view how widespread this designation is, click [here](#) to view Exeter's "impaired rivers". As you look at this map remember, **BLUE** means the water course meets standards, **RED** means it does not. With the majority of Exeter's waterways in red on this map, you may be starting to understand the purpose of the THINK BLUE program.

### How Can You Help?

Our habits play a major role in this type of pollution. To find out what simple changes you can make to reduce the amount of pollutants entering our rivers, explore the links

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[Water/Sewer Advisory Committee](#)

below and be sure to check out our "Ducky Ads" at the bottom of the page. You may have seen or heard them on Channel 98 or WXEX.

We need more people to THINK BLUE because **CLEAN WATER STARTS WITH YOU!!!**

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[Toolbox](#)

Click any thumbnail image to view a slideshow



#### Supporting Documents

[Stormwater Rubber Duck PSA](#)

[Devil Duck Lawn Care PSA](#)

[Rainstorm Radio Ad](#)

[Car Wash Radio Ad](#)

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#### Contact

10 Front Street  
Exeter, NH 03833  
603-778-0591

To reach all members of the  
Board of Selectmen  
- [Selectmen@exeternh.gov](mailto:Selectmen@exeternh.gov)

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Nancy Belanger -  
[nbelanger@exeternh.gov](mailto:nbelanger@exeternh.gov)

[Full Contact Details...](#)  
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#### Upcoming Events

**Transportation Committee**  
Mon, May 4th 4:10pm

**Board of Selectmen**  
Mon, May 4th 7:00pm - 9:00pm

**Trail Committee Meeting**  
Mon, May 4th 7:00pm - 9:30pm

**Heritage Commission**  
Wed, May 6th 7:00pm

**Planning Board Site Walks**  
Thu, May 7th (All day)

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## Drug Drop-Off Box



The Exeter Police Department has taken a step further to help keep harmful, unused medications out of the hands of children as well as out of the environment. Open Source Research shows that every day 2,500 kids abuse prescription drugs for the first time. Seventy percent of people who abuse prescription pain relievers say they got them from friends or relatives.

Currently, many unwanted or expired household and prescription medications are improperly disposed of. The harmful methods being used include flushing the drugs down toilets or putting them into the garbage. Both of these methods have damaging effects on our environment and contaminate our water supply. Therefore, The Exeter Police saw the need for a unit that would

provide a source for proper disposal of unwanted or expired household and prescription medications, and placed a secured container in the lobby of the Police Department.

The Exeter Police Department's MedReturn Drug Collection Unit provides a safe, sustainable and secure method to dispose of unwanted or expired household medicines or prescription medication. There has been a great response from the Exeter community during our Drug Take Back events that have been coordinated with the D.E.A. The Exeter Police is committed to continuing to offer these services as well as now providing a 24hr 7 day a week- no questions asked-disposal option.

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### Contact

Emergencies: Dial 911  
 Dispatch: 603-772-1212  
 Fax: 603-778-7061

20 Court Street  
 Exeter, NH 03833

Chief Richard Kane  
[rkane@exeternh.gov](mailto:rkane@exeternh.gov)



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## Christmas Tree pick-up

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Web Page *Christmas Tree pick-up* has been updated.



The Public Works Department will pick-up Christmas Trees on your regular rubbish day during the week of January 12th - 16th (2015). Please have all decorations removed and place your tree curbside by 7am on your regular pick-up day!

If you miss pick-up trees can be dropped off at the [Transfer Station](#) no permit required (please have proper residential ID ready).

Transfer Station hours are: Tuesday 9-2:30, Thursday 1-4, & Saturday 9-2:30.

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### Contact

#### Public Works Complex:

13 Newfields Road

Exeter, NH 03833

P) 603-773-6157

F) 603-772-1355

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Emergency: 603-772-1212

(nights, weekends or holidays)

#### Hours:

Monday - Friday

7:00 AM - 3:30 PM

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#### Unitil Gas Emergencies:

866-900-4115

#### Transfer Station:

9 Cross Road

Exeter, NH 03833

#### Hours:

Tuesday: 9:00 AM - 2:30 PM

Thursday: 1:00 PM - 4:00 PM

Saturday: 9:00 AM - 2:30 PM

#### Full Contact Details...

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### Upcoming Events

#### Spring Leaf Pick-up

Mon, May 18th (All day) - Fri, May 22nd (All day)

#### Memorial Day - Closed

Mon, May 25th (All day)

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## Household Hazardous Waste Day

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Calendar Event *Household Hazardous Waste Day* has been updated.

**Meeting:** Household Hazardous Waste Day

**Date/Time:** Sat, Oct 4th 8:00am - 1:00pm

**Location:** 13 Newfields Rd, Exeter, NH



### Hazardous Waste in your home?

Hazardous Waste collection day will be on Saturday, October 4, 2014 at the Public Works complex 8:00 a.m. to 1:00 p.m.

**Exeter, Stratham, Newfields, East Kingston, Epping, & Seabrook residents** are all welcome to drop off hazardous waste.

**Limit per household:** 10 gallons (or equivalent)

**Please note the following WILL NOT be accepted:**

- Latex paint and alkaline batteries (not hazardous).
- Electronics will not be accepted, please contact your local town transfer station for disposal information.
- Gas cylinders
- Explosives
- Ammunition
- Radioactive materials
- Infectious & biological wastes
- Prescription medicines/syringes (Exeter PD has a drop box)
- Esters

### Supporting Documents

[2014 Hazardous Waste Day](#)

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#### Public Works Complex:

13 Newfields Road

Exeter, NH 03833

P) 603-773-6157

F) 603-772-1355

**Info line:** 603-418-6450

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7:00 AM - 3:30 PM

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Saturday: 9:00 AM - 2:30 PM

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### Upcoming Events

#### Spring Leaf Pick-up

Mon, May 18th (All day) - Fri, May

22nd (All day)

#### Memorial Day - Closed

Mon, May 25th (All day)

[View the Public Works calendar](#)



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[Town of Exeter Home](#) » [Fall Leaf pick-up](#)

## Fall Leaf pick-up

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Calendar Event *Fall Leaf pick-up* has been updated.

**Meeting:** Fall Leaf pick-up

**Date/Time:** Mon, Dec 8th (All day) - Fri, Dec 12th (All day)

**Location:**



**Fall leaf and grass clipping pick up will be December 8 - 12.**

Northside Carting picks-up leaves and grass curbside twice each year (1 spring and 1 fall date). Bags must be biodegradable paper bags and placed curbside by 7 a.m. on your rubbish collection day (**12 bag limit per residence**). Bags are available to purchase at local hardware or grocery stores. In addition, leaves and grass can be taken directly to the

Transfer Station (no permit required) during hours of operation.

Leaves and grass either taken to the Transfer Station or collected curbside are composted. Compost is available to residents free of charge. For availability contact Public Works!

[Share / Save](#)



### Public Works Menu

[Public Works Home](#)

### Contact

**Public Works Complex:**

13 Newfields Road

Exeter, NH 03833

P) 603-773-6157

F) 603-772-1355

**Info line:** 603-418-6450

**Emergency:** 603-772-1212

(nights, weekends or holidays)

**Hours:**

Monday - Friday

7:00 AM - 3:30 PM

Like us on [Facebook!](#)

**Unitil Gas Emergencies:**

866-900-4115

**Transfer Station:**

9 Cross Road

Exeter, NH 03833

**Hours:**

Tuesday: 9:00 AM - 2:30 PM

Thursday: 1:00 PM - 4:00 PM

Saturday: 9:00 AM - 2:30 PM

**Full Contact Details...**

[Edit Contact Details](#)

### Upcoming Events

**Spring Leaf Pick-up**

Mon, May 18th (All day) - Fri, May 22nd (All day)

**Memorial Day - Closed**

Mon, May 25th (All day)

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## Planning

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## CAPE: Climate Adaptation Plan for Exeter



### BACKGROUND:

The climate in which we live has always changed over time, requiring us to adjust or adapt to these changes. While some people disagree with the science of global warming, there are some things we can all agree upon. The Exeter community has seen a marked increase in flooding and the adage "an ounce of prevention is worth a pound of cure" rings true. Whatever the

ultimate cause, whether it is manmade or a natural cycle, there are many decisions that need to be made today and in the future that will impact how people, infrastructure, and natural resources fare. To prepare for these changes, while engaging local people about local priorities, this project will work over the next two years to first study the vulnerabilities in Exeter and to then develop an adaptation plan.

The process starts with understanding the impacts of present climate conditions on people, infrastructure and natural resources (where are we vulnerable? What needs to be fixed or made secure?). We then determine how things will change under scenarios of future possible climates. Only after these impacts are determined can adaptation planning start. We have to use scenarios of future possible climates because the exact characteristics of the future climate are unknown; the amount of human greenhouse gases to be emitted in the future is unknown and there is still lack of complete understanding of the climate system.

### Supporting Documents

[UNH Climate Plan for Exeter - Grant Announcement](#)

[Share / Save](#)



### Planning Menu

[Planning Home](#)

### Contact

10 Front Street  
Exeter, NH 03833  
Phone: 603-773-6112  
Alternate: 603-778-0591 ext. 112  
Fax: 603-772-4709

### Hours:

Monday - Friday  
8:00AM - 4:30

[Full Contact Details...](#)

### Upcoming Events

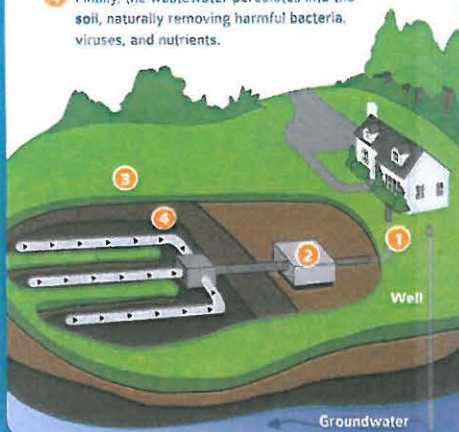
There are no upcoming events at this time.

[View the Planning calendar](#)

## How does a septic system work?

This is a simplified overview of how a septic system works.

- 1 All water runs out of your house from one main drainage pipe into a septic tank.
- 2 The septic tank is a buried, water-tight container usually made of concrete, fiberglass or polyethylene. Its job is to hold the wastewater long enough to allow solids to settle down to the bottom (forming sludge), while the oil and grease floats to the top (as scum). Compartments and a T-shaped outlet prevent the sludge and scum from leaving the tank and traveling into the drainfield area.
- 3 The liquid wastewater then exits the tank into the drainfield. If the drainfield is overloaded with too much liquid, it will flood, causing sewage to flow to the ground surface or create backups in toilets and sinks.
- 4 Finally, the wastewater percolates into the soil, naturally removing harmful bacteria, viruses, and nutrients.



## SepticSmart Helps Protect Your Home and Family

If you have a septic system, it's extremely important to keep up with its proper care and maintenance. The U.S. Environmental Protection Agency's SepticSmart initiative helps ensure that we all know how to do our part to safeguard our community's health and protect the environment. It can also protect your family and keep you from spending thousands of dollars repairing or replacing a damaged system.



For more information on how you can be SepticSmart, please visit:  
[www.epa.gov/septicSMART](http://www.epa.gov/septicSMART)



EPA-832-B-12-003  
September 2012

## Do your Part—Be SepticSmart!

A simple guide to the proper care and maintenance of your septic system.



septicSMART

U.S. Environmental Protection Agency

## Why is it important to properly maintain my septic tank?

### It saves you money.

Malfunctioning systems can cost \$3,000-\$7,000 to repair or replace compared to maintenance costs of about \$250-\$500 every three to five years.

### It protects the value of your home.

Malfunctioning septic systems can drastically reduce property values, hamper the sale of your home, and even pose a legal liability.

### It keeps your water clean and safe.

A properly maintained system helps keep your family's drinking water pure, and reduces the risk of contaminating community, local, and regional waters.

### It keeps the environment clean.

Malfunctioning septic systems can harm the local ecosystem by killing native plants, fish, and shellfish.

## Do I have a septic system? If so, how can I find it?

### Here are a few tips to determine if you have a septic system and how to locate it.

#### You most likely have a system if:

- You are on well water.
- The water line coming into your house does not have a meter.
- Your neighbors have a septic system.

#### You can find your septic system by:

- Looking on the "as built" drawing for your home.
- Checking in your yard for lids or manhole covers.
- Using an inspector/pumper, who can also help you find exactly where the system is located.

## What can I do to help maintain my system?

### Protect it and inspect it.

A typical septic system should be inspected at least every three years by a licensed contractor and your tank pumped as recommended by the inspector (generally every three to five years).

### Think at the Sink.

- Your septic system contains a living collection of organisms that digest and treat waste. Pouring toxins down your drain can kill these organisms and harm your septic system.
- Oil-based paints, solvents, and large volumes of toxic cleaners should not enter your septic system. Even latex paint cleanup waste should be minimized.
- Eliminating the use of a garbage disposal can reduce the amount of fats, grease, and solids entering the septic tank and ultimately clogging the drainfield. Increased disposal use results in more frequent pumping.

### Don't Overload the Commode.

A variety of household products can clog and potentially damage septic system components.

#### Do not flush:

- Feminine hygiene products
- Condoms
- Diapers
- Cigarette butts
- Coffee grounds
- Cat litter

For a complete list, visit [www.epa.gov/septicmart](http://www.epa.gov/septicmart).

### Don't Strain your Drain.

It's simple. The less water you use, the less water that enters the septic tank, which decreases its workload. Here are a few easy ways to save water:

- Run dishwasher and washing machine only when full.
- Repair leaky toilets and pipes.
- Use high-efficiency toilets and faucets.

For more information on how you can save water, visit EPA's WaterSense program: [www.epa.gov/watersense](http://www.epa.gov/watersense).

### Shield your Field.

It's equally important to protect your drainfield.

- Do not park or drive on your drainfield.
- Plant trees the appropriate distance from the drainfield to keep roots from growing into the system.
- Keep roof drains, sump pumps and other rainwater drainage systems away from the area. Excess water slows down or stops the treatment process.

## How do I know if my septic system is not working properly?

### Mind the Signs!

Here are a few signs of septic system malfunction. If you discover any of these warning signs, call a licensed septic tank contractor immediately. One call could save you thousands of dollars.

- Wastewater backing up into household drains.
- A strong odor around the septic tank and drainfield.
- Bright green, spongy grass appearing on the drainfield, even during dry weather.



# Septic Systems and Their Maintenance



A properly functioning septic system requires regular maintenance

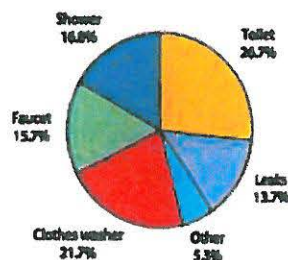
Maintenance is the single most important consideration in making sure a septic system will work well over a long period of time.

## What you should do ...

### Top Four Things You Can Do to Protect Your Septic System—

1. Regularly have your system inspected and tank pumped as necessary (see recommendation).
2. Use water efficiently.
3. Do not dispose of household hazardous chemicals in sinks or toilets.
4. Care for your drainfield.

How Much Water Do We Use?



Source: American Water Works Association Research Foundation, "Groundwater and Use of Water," 1996

## **What is a Septic System?**

A septic system, also referred to as a private, on-site waste disposal system, receives waste water and solids from a buildings plumbing facilities (bathrooms, kitchens, shower, laundry), treats and then disposes of the effluent from this waste by permitting it to absorb into the soils at the property.

*Did you know that maintaining your septic system protects your investment in your home?*

### **Components**

A typical septic system has four main components: a pipe from the home, a septic tank, a drainfield, and the soil.

### **Tip**

To prevent buildup, sludge and floating scum need to be removed through periodic pumping of the septic tank. Regular inspections and pumping are the best and cheapest way to keep your septic system in good working order.

**When should I have an inspection done?** Your septic system should be inspected on a regular basis. It is recommended that the septic system be inspected every 1 to 3 years and tank cleaned out every 3 to 5 years. It is always an opportune time and recommended to inspect your system when it is being cleaned out.

**Where does the wastewater go when it leaves the tank?** After the septic tank the clarified wastewater (effluent) will flow into the soil absorption system. The most common type of soil absorption area is called the drainfield or leachfield, but seepage beds are also used.

### **Not in My Septic System!**

**X - Cloggers** - Diapers, cat litter, cigarette filters, coffee grounds, grease, feminine hygiene products, baby wipes, etc.

**X- Killers** - Household chemicals, gasoline, oil, pesticides, antifreeze, paint, etc.

### **\*\*Garbage disposals**

Eliminating the use of a garbage disposal can reduce the amount of grease and solids entering the septic tank and possibly clogging the drainfield.

Exeter DPW [www.town.exeter.nh.us/dpw/stormwater](http://www.town.exeter.nh.us/dpw/stormwater)

## DO'S & DON'TS

### To Protect Exeter's Drinking Water



- **DO** take leftover household chemicals to the annual Household Hazardous Waste Collection Day, held 1st Saturday in October.
- **DO** take care of your septic system. Inspect the septic tank every year and have it pumped out every 3 to 5 years.
- **DO** avoid damage to your leachfield & distribution lines by keeping vehicles, livestock & other heavy objects off of it.
- **DO** check underground fuel tanks (UST) frequently for leaks. Have an UST removed if more than 20 years old and replace with an above ground tank that has a concrete slab underneath it, a cover & a secondary containment.

- **DO** use drip pans large enough to contain motor vehicle or power equipment fluids being replaced or drained.
- **DO** fully drain oil over a drip pan or pail before disposal. Store & transport used oil filters in a covered leak-proof container until properly disposed. (Household Hazardous Waste Day)
- **DO** refuel or repair engines over an impervious surface such as a concrete floor or tarp.
- **DO** drain all fluids from motor vehicle parts before removing them from vehicle.
- **DO** keep absorbent materials such as rags, pads, speedee-dri, kitty litter, or other clay based products handy to the work area & clean up all spills as soon as they occur. Store all used absorbents immediately in a leak-proof container and dispose of properly.



- **DO** test soil every two years to determine nutrient levels & pH before applying fertilizers.
- **DO** use slow release nitrogen sources of fertilizer.
- **DO** measure the area of your lawn to be fertilized to determine how much to use.
- **DO** calibrate or adjust spreader settings to match the recommended rate of fertilizers.
- **DO** use non-toxic & less-toxic alternatives to pesticides & household chemicals.
- **DO** follow package directions on pesticides, fertilizers, & other household chemicals.
- **DO** pick up pet waste!

- **DON'T** pour chemicals down the sink or toilet, including prescription drugs. Safely store them and take them to the Household Hazardous Waste Collection.
- **DON'T** use septic system cleaners or additives containing acids or chemical solvents such as trichloroethylene.
- **DON'T** overload your septic system with solids by using a garbage disposal, unless the system is specifically designed for one.
- **DON'T** have an underground storage tank removed by someone who is not familiar with state guidelines for UST removal.



- **DON'T** buy more pesticides or hazardous chemicals than you need.
- **DON'T** over-use pesticides or household chemicals. More is *not* necessarily better.
- **DON'T** use fertilizers if heavy rains are anticipated as the nutrients will be flushed from the lawn into drains and low areas.
- **DON'T** apply fertilizers within 10 feet of catch basins, culverts, drainage ditches, wells, roadways & sidewalks, or 25 feet of rivers, streams & ponds.
- **DON'T** leave pet waste on the ground where it can be carried by stormwater to local streams.
- **DON'T** dispose of hazardous chemicals by pouring them down the drain or onto the ground.



Exeter's Wellhead Protection Program was funded in part by a grant from the NHEP, as authorized by the US EPA's National Estuary Program.

## DO YOU REALIZE?

- That pouring, blowing, or sweeping debris into the streets could lead to the polluting of Exeter's rivers?
- Storm drains are designed to collect rainwater from streets, parking lots and rooftops as quickly as possible to prevent flooding. Storm drains discharge runoff directly to waterways without treatment.
- The improper disposal of detergents, oil, chemicals and debris into the storm drains impacts the water quality of our rivers and it is illegal.

## MATERIALS REQUEST

FILL OUT POSTCARD, ADD POSTAGE AND MAIL.  
THANK YOU FOR YOUR SUPPORT.

- |                                               |                                    |
|-----------------------------------------------|------------------------------------|
| <input type="checkbox"/> Stormwater Logo Sign | <input type="checkbox"/> Bookmarks |
| <input type="checkbox"/> Kid's Stickers       | <input type="checkbox"/> Flyers    |
| <input type="checkbox"/> Paper Coasters       |                                    |

BUSINESS \_\_\_\_\_

CONTACT NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_

PHONE \_\_\_\_\_



EXETER CLEAN WATER CAMPAIGN  
SPONSORED BY:

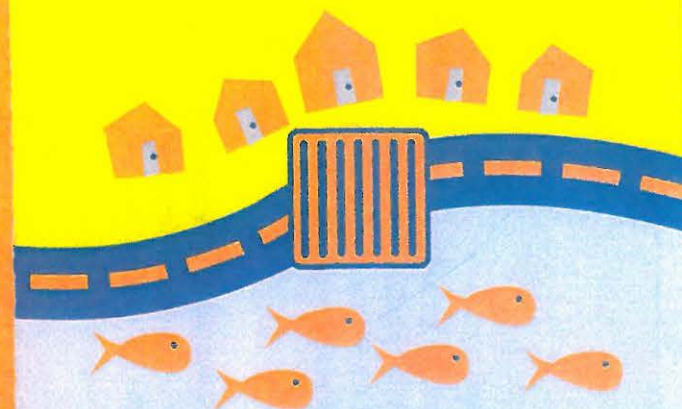
THE TOWN OF EXETER -  
DEPARTMENT OF PUBLIC WORKS

10 FRONT STREET  
EXETER, NH 03833

PHONE: 603-778-0591

FAX: 603-772-1355

E-MAIL: PDUFFY@EXETERNH.ORG



## JOIN THE EXETER CLEAN WATER CAMPAIGN!

LOCAL BUSINESSES  
CAN HELP KEEP  
EXETER'S WATER CLEAN.



# STORMWATER RUNOFF IMPACTS WATER QUALITY

Local businesses can be a part of the Exeter Clean Water Campaign. The Town of Exeter wants to partner with local businesses to help educate the community and to participate in an effort to improve our local water quality.

## EXETER IMPACTED BY NEW CLEAN WATER REGULATIONS

The Stormwater Phase II Rule requires certain communities with storm drainage systems to obtain a National Pollutant Discharge Elimination System (NPDES) permit and develop a stormwater management program designed to prevent harmful pollutants from being washed by stormwater runoff into local waterways.

Stormwater (rain and snow melt) flows into the municipal storm drainage system (catch basins) and is discharged to our rivers and streams without treatment.

Common pollutants include oil & grease, pesticides, sediment and carelessly discarded trash, such as cigarette butts, paper wrappers, and plastic bottles. These pollutants can impair the waterways thereby discouraging recreational uses, contaminating drinking water sources, and interfering with the habitat for fish and wildlife.

## EXETER'S STORMWATER MANAGEMENT PROGRAM

The U.S. Environmental Protection Agency (EPA) is the permit authority for New Hampshire. EPA requires Stormwater Management Programs to include the following Six Minimum Control Measures:

- 1) Public Education
- 2) Public Participation
- 3) Illicit Discharge Detection and Elimination

### WHAT DOWNTOWN BUSINESSES CAN DO TO HELP PREVENT STORMWATER POLLUTION:

- DISPOSE OF BUSINESS SWEEPINGS IN THE TRASH
- DISPOSE MOP WATER TO SANITARY SEWER
- AVOID TOXIC MATERIALS SUCH AS CLEANERS TO THE EXTENT POSSIBLE
- MAKE SURE ALL TRASH IS BAGGED AND TIED AND DUMPSTERS ARE CLOSED
- DO NOT LOCATE DUMPSTERS NEXT TO CATCH BASINS OR WATERWAYS
- INSTALL & PROPERLY MAINTAIN GREASE TRAPS & INCEPTORS
- RECYCLE WASTE COOKING OIL - NEVER POUR DOWN DRAINS OR DUMP OUTSIDE
- DO NOT CLEAN EQUIPMENT OUTDOORS - DETERGENTS, CHEMICALS AND GREASE IMPACT OUR WATER QUALITY

### PUBLIC EDUCATION AND PARTICIPATION

We believe that education is the most important element in the Stormwater Program. Many people simply do not realize that the water that flows into catch basins goes directly to the river or other waterways without treatment. Once people realize that their individual actions impact their local waterways, they will want to keep their streets litter free, properly dispose of pet waste, be careful when applying fertilizer and pesticides, and make sure their automobiles are not leaking oil or other fluids.

for businesses that support the stormwater program. We will also provide educational materials such as bookmarks, hard stock paper coasters, children's stickers, and flyers if businesses are interested. To receive these items, please fill out attached postcard and mail it back to us.

If you have any questions, please contact Phyllis Duffy at 603-778-0591, or via e-mail at [pduffy@exeternh.org](mailto:pduffy@exeternh.org).

PLEASE  
APPLY  
STAMP

EXETER CLEAN WATER CAMPAIGN  
C/O THE TOWN OF EXETER -  
DEPARTMENT OF PUBLIC WORKS  
10 FRONT STREET  
EXETER, NH 03833

#### USE SLOW RELEASE FERTILIZERS

Slow release fertilizers provide a more controlled release of nitrogen than other products. They rely on chemical or microbial activity in order to release their nutrients, making it less likely that they will reach our waterways.

#### FOLLOW DIRECTIONS

Fertilizers are sold using a formula of three numbers (i.e. 10-20-10, 5-10-5). The 1st number is Nitrogen, 2nd is Phosphorus, and the 3rd number is Potassium.

#### NEVER APPLY LAWN CHEMICALS BEFORE A HEAVY RAIN

Proper irrigation will help the fertilizer be absorbed, making it less likely to runoff.

#### HANDLE AND STORE LAWN CHEMICALS SAFELY

Do not mix, apply, or dispose of pesticides or herbicides within 100 ft. of your well, a storm drain, or any surface water.

#### HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY

Dispose of all unwanted chemicals at the Household Hazardous Waste Collection Day, held each year on the 1st Saturday in October.

IF YOU HAVE ANY QUESTIONS,  
PLEASE CALL 603-772-1345, OR VISIT  
[WWW.TOWN.EXETER.NH.US/STORMWATER](http://WWW.TOWN.EXETER.NH.US/STORMWATER)

**STORMWATER RUNOFF  
IS CONSIDERED THE NO. 1  
SOURCE OF WATER  
POLLUTION IN  
THE US!**

- US EPA

PROVIDED BY THE  
TOWN OF EXETER  
DEPARTMENT OF  
PUBLIC WORKS



# STOP!

**WHAT YOU DO TO  
YOUR LAWN  
AFFECTS OUR RIVERS,  
STREAMS, AND  
DRINKING WATER**

**BEFORE YOU APPLY THOSE  
LAWN PRODUCTS, KNOW  
THESE IMPORTANT FACTS:**

## **FACT**

The Nitrogen and Phosphorus in fertilizers can travel great distances and end up in local waterways. Once the nutrients from fertilizer enter a water body, they dramatically increase the growth of algae. Algae blocks sunlight and leads to the death of fish and aquatic vegetation.

## **FACT**

Pesticides & Herbicides can travel from your lawn and gardens and contaminate our waterways with chemicals that are toxic to both humans and animals.

## **TIPS**

### **TEST YOUR SOIL**

You may not need to add anything. For more information on the soil testing program at UNH, call 603-862-3200.

### **USE ORGANIC MATERIALS**

Grass clippings can provide the soil with nutrients, reducing chemical needs by up to 25%. You can use compost as a slow-release fertilizer. *Compost is available FREE at the Transfer Station.*

## 2014 EXETER RIVER WATERSHED VRAP DATA

|                                                                                   |                                                                            |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | Measurements not meeting New Hampshire surface water quality standards     |
|  | Measurements not meeting NHDES quality assurance/quality control standards |

<sup>A</sup> Specific conductance > 835  $\mu\text{S}/\text{cm}$  indicate exceedance of chronic chloride standard of 230 mg/l

<sup>B</sup> Chronic water quality standard

<sup>C</sup> Calculated using 1/2 of the 0.25 mg/L detection limit of TKN (0.125 mg/L)

### 15-EXT, Exeter River, Haigh Road, Exeter - NHDES Trend Station

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) | Chloride (mg/L)  | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|------------------|----------------------------|-------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 | 230 <sup>B</sup> | >406                       | <126                          |
| 01/28/2014 | 10:30          | 13.77     | 94.5               | 5.87    | 0.50                     | 196.9                                            | 0.0                                | 33               |                            |                               |
| 06/30/2014 | 09:40          | 7.29      | 83.6               | 6.50    | 1.4                      | 219.5                                            | 22.2                               | 47               | 70                         |                               |
| 07/18/2014 | 10:35          | 6.66      | 76.3               | 6.68    | 1.2                      | 210.5                                            | 22.6                               | 41               | 120                        |                               |
| 08/22/2014 | 11:35          | 8.16      | 88.1               | 6.42    | 0.9                      | 190.6                                            | 19.1                               | 38               | 570                        | 169                           |

### 15-EXT, Exeter River, Haigh Road, Exeter (Cont.)

| Date       | Time of Sample | Total Phosphorus (mg/L) | Total Kjeldahl Nitrogen (mg/L) | Nitrite (NO <sub>2</sub> )+ Nitrate(NO <sub>3</sub> ) (mg/L) | Total Nitrogen (mg/L) |
|------------|----------------|-------------------------|--------------------------------|--------------------------------------------------------------|-----------------------|
| Standard   | NA             | Narrative               | Narrative                      | Narrative                                                    | Narrative             |
| 01/28/2014 | 10:30          | 0.0322                  | ND                             | 0.20                                                         | 0.33 <sup>C</sup>     |
| 06/30/2014 | 09:40          | 0.0166                  | 0.34                           | 0.18                                                         | 0.52                  |
| 07/18/2014 | 10:35          | 0.0149                  | 0.37                           | 0.10                                                         | 0.47                  |
| 08/22/2014 | 11:35          | 0.0321                  | 0.41                           | 0.17                                                         | 0.58                  |

**14-EXT, Exeter River, Pickpocket Dam/Cross Road Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/20/2014 | 09:00          | 6.23      | 63.5               | 6.57    | 1.6                      | 196.9                                            | 16.3                               |
| 06/24/2014 | 08:47          | 5.97      | 66.7               | 6.42    | 3.8                      | 220.5                                            | 20.8                               |
| 08/04/2014 | 09:50          | 5.93      | 67.6               | 6.48    | 1.8                      | 213.4                                            | 21.9                               |

**13-EXT, Exeter River, Kingston Road (Route 111) Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/20/2014 | 09:31          | 9.25      | 94.6               | 6.42    | 1.6                      | 199.0                                            | 16.5                               |
| 06/24/2014 | 09:13          | 8.27      | 91.5               | 6.55    | 2.8                      | 225.6                                            | 20.3                               |
| 08/04/2014 | 10:04          | 8.59      | 97.3               | 6.67    | 1.4                      | 215.4                                            | 21.5                               |

**12A-EXT, Exeter River, Linden Street Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/20/2014 | 09:52          | 8.99      | 91.6               | 6.57    | 2.3                      | 202.2                                            | 16.2                               |
| 06/24/2014 | 09:42          | 7.42      | 83.5               | 6.44    | 3.4                      | 228.6                                            | 21.1                               |
| 08/04/2014 | 10:21          | 7.84      | 88.9               | 6.65    | 1.9                      | 216.7                                            | 21.6                               |

**12-EXT, Exeter River, Court Street/Route 108 Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/20/2014 | 10:15          | 8.93      | 91.2               | 6.45    | 1.9                      | 203.5                                            | 16.5                               |
| 06/24/2014 | 10:05          | 7.04      | 79.1               | 6.34    | 3.4                      | 230.0                                            | 21.2                               |
| 08/04/2014 | 10:43          | 7.55      | 85.8               | 6.51    | 2.1                      | 231.2                                            | 21.7                               |

**05-LTE, Little River, Garrison Road Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/19/2014 | 09:42          | 8.67      | 86.4               | 6.19    | 4.1                      | 203.5                                            | 15.2                               |
| 06/23/2014 | 08:52          | 8.58      | 90.1               | 6.61    | 8.9                      | 221.8                                            | 17.7                               |
| 08/05/2014 | 09:01          | 8.51      | 95.5               | 6.98    | 3.6                      | 274.4                                            | 21.0                               |

**02-LTE, Little River, Linden Street Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/19/2014 | 10:18          | 8.81      | 90.3               | 6.39    | 5.8                      | 204.8                                            | 16.4                               |
| 06/23/2014 | 09:19          | 7.10      | 76.1               | 6.38    | 12.1                     | 251.5                                            | 18.7                               |
| 08/05/2014 | 09:26          | 5.83      | 67.1               | 6.51    | 4.5                      | 272.2                                            | 22.3                               |

**00-LTE, Little River, Gilman Street Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/19/2014 | 10:37          | 8.44      | 86.4               | 6.28    | 6.3                      | 214.3                                            | 16.1                               |
| 06/23/2014 | 09:42          | 7.29      | 83.1               | 6.39    | 10.3                     | 250.9                                            | 21.8                               |
| 08/05/2014 | 10:09          | 8.63      | 103.7              | 6.75    | 5.7                      | 280.1                                            | 24.7                               |

**09-EXT, Exeter River, High Street Bridge, Exeter**

| Date       | Time of Sample | DO (mg/L) | DO (% sat.)        | pH      | Turbidity (NTUs)         | Specific Conductance ( $\mu\text{S}/\text{cm}$ ) | Water Temp. ( $^{\circ}\text{C}$ ) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--------------------------------------------------|------------------------------------|
| Standard   | NA             | >5.0      | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$           | NA                                 |
| 05/20/2014 | 10:36          | 8.00      | 83.3               | 6.47    | 2.1                      | 203.8                                            | 17.3                               |
| 06/24/2014 | 10:19          | 7.59      | 86.1               | 6.35    | 3.3                      | 228.5                                            | 21.6                               |
| 08/04/2014 | 11:01          | 5.86      | 69.8               | 6.32    | 2.2                      | 233.0                                            | 24.1                               |

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Broken clouds, 16 °C / 60.8 °F

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## 2014 Fish Ladder Tour



Please join NH Fish and Game, members of the Exeter Conservation Commission and the Exeter-Squamscott River Local Advisory Committee on May 17th at 10 am for an exciting family friendly event about our spring migratory fish species.

NH Fish and Game staff will explain the purpose of the ladder, describe the fish that use the ladder during the annual spring migration from salt water in the

Squamscott River to fresh water in the Exeter River and even pull some fish out of the ladder for close viewing. There is always lots of giggles and squealing when the ancient sea lamprey is shown!

Migratory fish such as smelt, alewife, blueback herring, American shad, American eel and sea lamprey all use the fish ladder as a way to move upstream past the dam. The event is rain or shine and participants will meet next to the 11 Water Street Restaurant on Water Street in downtown Exeter.

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10 Front Street  
Exeter, NH 03833  
603-778-0591

[Full Contact Details...](#)**Upcoming Events**

**Budget Committee Human  
Services Work Group**  
Mon, Apr 21st 4:00pm - 6:00pm

**Board of Selectmen**  
Mon, Apr 21st 7:00pm - 9:30pm

**Planning Board**  
Thu, Apr 24th 7:00pm - 9:00pm

**Photography Show**  
Fri, Apr 25th (All day) - Sun, May  
18th (All day)

**CDFA/CDBG to Release Program  
Funds for the proposed Meeting  
Place III Affordable Housing  
Project**  
Mon, May 5th (All day)

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## 2014 National Trails Day Event

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### Date

Sat, Jun 7th 6:00am - 11:00am

### Location

The very end of Continental Drive

### Agendas

[Event Flyer](#)

### Minutes

Meeting minutes have not been posted.

### Other Attachments

No additional attachments have been uploaded.

### Summary

Saturday June 7th is National Trails Day!

Join us for this family friendly event as we explore the Little River Conservation Area. We are hosting guided walks at 6:00 am (Birding with Carlos Guindon) and 9:00 am (Wildlife Sign with David O'Hearn). Or if you prefer to explore on your own, trail maps will be available. We will enter the conservation area from the very end of Continental Drive. Be sure to sign up for our trail gear raffle!

NOTE: This event will be held weather permitting. Check the town's website for any updates due to weather conditions.

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### Contact

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## Upcoming Events

**Transportation Committee**  
Mon, May 4th 4:10pm

**Board of Selectmen**  
Mon, May 4th 7:00pm - 9:00pm

**Trail Committee Meeting**  
Mon, May 4th 7:00pm - 9:30pm