

Municipality/Organization: Town of Hampstead

EPA NPDES Permit Number: NH 004 1010

MassDEP Transmittal Number: W-

Annual Report Number Year 9  
& Reporting Period: April 1, 2011 - March 31, 2012

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

**Part I. General Information**

Contact Person: Jon Worthen Title: Road Agent

Telephone #: 603-329-5710 Email: hampsteadhighway@comcast.net

Mailing Address: 35 Stage Rd. Hampstead, NH 03841

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: Richard H. Hartung

Printed Name: Richard H. Hartung

Title: Selectman

Date: 4/19/12

**Part II. Self-Assessment**

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

| BMP ID #       | BMP Description                    | Responsible Dept./Person Name | Measurable Goal(s)  | Progress on Goal(s) - Permit Year 9 (Reliance on non-municipal partners indicated, if any) | Planned Activities                                       |
|----------------|------------------------------------|-------------------------------|---------------------|--|--|
| 1-2<br>Revised | Distribute information             | Town Offices                  |                     | Provide information to contractors and homeowners  | provide DVD to run on cable about stormwater management. |
| 1-3<br>Revised | Public education at the schools    | Hampstead Central + Middle    |                     | In-school recycling program  | continue   |
| 1-5<br>Revised | Household hazardous waste          | Recycling + Waste Disposal    | tally participation | Two household hazardous waste days per year  | continue   |
| 1-7<br>Revised | Education on Stormwater Protection | Kris Emerson Bldg. Insp.      |                     | Educate residents  | provide information as needed.                           |
| 1-7<br>Revised | Educate Public Catchbasin signage  | Jon Worthen Rd. Agent         |                     | Educate residents  | Start Summer 2012  |
| Revised        |                                    |                               |                     |  |  |

1a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

2. Public Involvement and Participation

| BMP ID #    | BMP Description                     | Responsible Dept./Person Name | Measurable Goal(s)      | Progress on Goal(s) - Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|-------------|-------------------------------------|-------------------------------|-------------------------|--|--------------------|
| 2-1 Revised | Hampstead Middle School             | Kathie Cassin                 | test results            | water monitoring by students   | continue           |
| 2-2 Revised | Big Island Pond / Sunset Lake Assoc | Jan Warthen Reddy Agent       |                         | Low salt areas near the lakes  | continue           |
| 2-3 Revised | Lake Associations                   | Lake Members                  |                         | Continue to meet and address issues related to lakes                                       | continue           |
| 2-4 Revised | Adopt-a-road                        | Jan Warthen Rd Agent          | trash pick up # of bags | encourage participation  | continue program   |
| 2-4 Revised | Composting                          | Recycling + Waste Disposal    | # of bins               | provide compost bin at cost to residents   | continue           |
| Revised     |                                     |                               |                         |  |                    |

2a. Additions

|     |                 |                            |                   |  |                  |
|-----|-----------------|----------------------------|-------------------|--|------------------|
| 2-4 | Recyclebank.com | Recycling / Waste Disposal | # of participants | incentive program to encourage recycling | implement 7/2012 |
|-----|-----------------|----------------------------|-------------------|--|------------------|

### 3. Illicit Discharge Detection and Elimination

| BMP ID #       | BMP Description       | Responsible Dept./Person Name | Measurable Goal(s)   | Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any) | Planned Activities                              |
|----------------|-----------------------|-------------------------------|----------------------|--|---|
| 3-3<br>Revised | Failed septic systems | Kris Emerson<br>Bldg. Insp.   | # of failed systems. | conduct regular inspections and review compliance  | monitor existing sites for problems             |
| 3-4<br>Revised | Illicit Discharge     | John Worthen<br>Reg. Agent.   |                      |  | locate outfalls and check for illicit discharge |
| Revised        |                       |                               |                      |  |   |
| Revised        |                       |                               |                      |  |   |
| Revised        |                       |                               |                      |  |   |
| Revised        |                       |                               |                      |  |   |

### 3a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

4. Construction Site Stormwater Runoff Control

| BMP ID #       | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) - Permit Year 9<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities     |
|----------------|------------------|-------------------------------|--------------------|---|------------------------|
| 4-1<br>Revised | Ordinances       | Planning Board                |                    | Continue with inspections and compliance  | Continue with practice |
| 4-2<br>Revised | Site Plan Review | Planning Board                |                    | Continue to review plans erosion controls in place when construction begins                   | Continue with practice |
| 4-3<br>Revised | Inspections      | Kus Emerson<br>Blah. Insp     | Regular reports    | Continue regular site visits to all construction sites  | Continue with practice |
| Revised        |                  |                               |                    |   |                        |
| Revised        |                  |                               |                    |   |                        |
| Revised        |                  |                               |                    |   |                        |

4a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID #       | BMP Description  | Responsible Dept./Person Name | Measurable Goal(s)        | Progress on Goal(s) - Permit Year 9 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------------|------------------|-------------------------------|---------------------------|--|--------------------|
| 5-1<br>Revised | Erosion Control  | Planning Board                |                           | Continue review of site plans  | Continue practice  |
| 5-2<br>Revised | Drainage/grading | Planning Board                |                           | Continue review of site plans  | Continue practice  |
| 5-3<br>Revised | Inspections      | Kris Emerson<br>Andy Trigg    | Periodic site inspections | Coordination with property owners to maintain systems                                      | Continue practice  |
| Revised        |                  |                               |                           |  |                    |
| Revised        |                  |                               |                           |  |                    |
| Revised        |                  |                               |                           |  |                    |

5a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID #       | BMP Description         | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) - Permit Year 9<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities                         |
|----------------|-------------------------|-------------------------------|--------------------|---|--|
| 6-1<br>Revised | Employee training       | Highway Dept                  |                    |   | use natural solvents for less contaminants |
| 6-2<br>Revised | Town Garage             | Sanitation                    |                    | Continue BMP  |  |
| 6-3<br>Revised | Fris Station            | Michael Carrer                |                    | Continue BMP  |  |
| 6-4<br>Revised | School                  | Mike Hall                     |                    | Continue BMP  |  |
| 6-5<br>Revised | Recycling               | Highway Garage                | items collected    | collected used oil bottles, lightbulbs, DVD, CD + Books                                       | continue with activity                     |
| 6-6<br>Revised | Beach Grobri Town Beach | Beach Comm. Hee               | Reduced Grobri     | 175 stalled new drainage system Phase I   | continue with Phase II                     |

6a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |



**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------|-----------------|-------------------------------|--------------------|--|--------------------|
| Revised  |                 |                               |                    |  |                    |
| Revised  |                 |                               |                    |  |                    |
| Revised  |                 |                               |                    |  |                    |
| Revised  |                 |                               |                    |  |                    |
| Revised  |                 |                               |                    |  |                    |
| Revised  |                 |                               |                    |  |                    |

**7a. Additions**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**7b. WLA Assessment**

**Part IV. Summary of Information Collected and Analyzed**

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

(Since beginning of permit coverage unless specified otherwise by a \*\*, which indicates response is for period covering April 1, 2011 through March 31, 2012)

**Programmatic**

|   | (Preferred Units) | Response |
|---|-------------------|----------|
| Stormwater management position created/staffed                | (y/n)             | No       |
| Annual program budget/expenditures **                         | (\$)              | None     |
| Total program expenditures since beginning of permit coverage | (\$)              | None     |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) |                   |          |

**Education, Involvement, and Training**

|  |   |                        |
|--|---|------------------------|
| Estimated number of property owners reached by education program(s)  | (# or %)                                  | unknown                |
| Stormwater management committee established  | (y/n)                                     | No                     |
| Stream teams established or supported  | (# or y/n)                                | No                     |
| Shoreline clean-up participation or quantity of shoreline miles cleaned **   | (y/n or mi.)                              | privately              |
| Shoreline cleaned since beginning of permit coverage   | (mi.)                                     |                        |
| Household Hazardous Waste Collection Days  |   |                        |
| <ul style="list-style-type: none"> <li>▪ days sponsored **</li> <li>▪ community participation **</li> <li>▪ material collected **</li> </ul> | (#)<br>(# or %)<br>(tons or gal)<br>(y/n) | 2<br>yes<br>yes<br>yes |
| School curricula implemented   |   |                        |

**Legal/Regulatory**

In Place Prior to Phase II      Reviewing Existing Authorities      Drafted      Draft in Review      Adopted

|  |  |  |  |   |
|--|--|--|--|---|
| Regulatory Mechanism Status (indicate with 'X')    |  |  |  |   |
| ▪ Illicit Discharge Detection & Elimination        |  |  |  |   |
| ▪ Erosion & Sediment Control                       |  |  |  | ✓ |
| ▪ Post-Development Stormwater Management           |  |  |  |   |
| Accompanying Regulation Status (indicate with 'X') |  |  |  |   |
| ▪ Illicit Discharge Detection & Elimination        |  |  |  |   |
| ▪ Erosion & Sediment Control                       |  |  |  |   |
| ▪ Post-Development Stormwater Management           |  |  |  |   |

**Mapping and Illicit Discharges**

|  | (Preferred Units)   |  | Response |
|--|---------------------|--|----------|
| Outfall mapping complete   | (%)                 |  | 100%     |
| Estimated or actual number of outfalls                             | (#)                 |  | 217      |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%)                 |  | 100%     |
| Mapping method(s)  |                     |  |          |
| ▪ Paper/Mylar  | (%)                 |  | ✓        |
| ▪ CADD   | (%)                 |  |          |
| ▪ GIS  | (%)                 |  |          |
| Outfalls inspected/screened **                                     | (# or %)            |  | 75%      |
| Outfalls inspected/screened (Since beginning of permit coverage)   | (# or %)            |  | 100%     |
| Illicit discharges identified **                                   | (#)                 |  |          |
| Illicit discharges identified (Since beginning of permit coverage) | (#)                 |  |          |
| Illicit connections removed **                                     | (#); and (est. gpd) |  | N/A      |
| Illicit connections removed (Since beginning of permit coverage)   | (#); and (est. gpd) |  | N/A      |
| % of population on sewer   | (%)                 |  | 0        |
| % of population on septic systems                                  | (%)                 |  | 100%     |

### Construction

|  | (Preferred Units) | Response |
|--|-------------------|----------|
| Number of construction starts (> 1-acre) **  | (#)               | 3        |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%)               | 100%     |
| Site inspections completed **  | (# or %)          | 12       |
| Tickets/Stop work orders issued **   | (# or %)          | 0        |
| Fines collected **   | (# and \$)        | 0        |
| Complaints/concerns received from public **  | (#)               | 0        |
|  |                   |          |
|  |                   |          |

### Post-Development Stormwater Management

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

### Operations and Maintenance

|  |                |               |
|--|----------------|---------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **           | (times/yr)     | every 2 years |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr)     | every 2 years |
| Qty of structures cleaned **   | (#)            | 75%           |
| Qty. of storm drain cleaned **   | (%, LF or mi.) |               |
| Qty. of screenings/debris removed from storm sewer infrastructure **                         | (lbs. or tons) | 4 Tons        |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **             | (location)     | landfill      |

| Basin Cleaning Costs                              |  |                         |      |
|---|--|-------------------------|------|
| • Annual budget/expenditure (labor & equipment)** |  | (\$)                    | 0    |
| • Hourly or per basin contract rate **            |  | (\$/hr or \$ per basin) |      |
| • Disposal cost**                                 |  | (\$)                    | 0    |
| Cleaning Equipment                                |  |                         |      |
| • Clam shell truck(s) owned/leased                |  | (#)                     |      |
| • Vacuum truck(s) owned/leased                    |  | (#)                     |      |
| • Vacuum trucks specified in contracts            |  | (y/n)                   | yes  |
| • % Structures cleaned with clam shells **        |  | (%)                     | 0    |
| • % Structures cleaned with vacator **            |  | (%)                     | 100% |

|   |  | (Preferred Units)  | Response |
|---|--|--------------------|----------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) **           |  | (times/yr)         | 0        |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** |  | (times/yr)         | 0        |
| Qty. of sand/debris collected by sweeping **  |  | (lbs. or tons)     |          |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **                |  | (location)         |          |
| Annual Sweeping Costs   |  |                    |          |
| • Annual budget/expenditure (labor & equipment)**                                       |  | (\$)               |          |
| • Hourly or lane mile contract rate **  |  | (\$/hr. or ln mi.) |          |
| • Disposal cost**   |  | (\$)               |          |
| Sweeping Equipment  |  |                    |          |
| • Rotary brush street sweepers owned/leased   |  | (#)                |          |
| • Vacuum street sweepers owned/leased   |  | (#)                |          |
| • Vacuum street sweepers specified in contracts   |  | (y/n)              |          |
| • % Roads swept with rotary brush sweepers **   |  | %                  |          |
| • % Roads swept with vacuum sweepers **   |  | %                  |          |

Reduction (since beginning of permit coverage) in application on public land of:  
 ("N/A" = never used; "100%" = elimination)

|  |             |                      |
|--|-------------|----------------------|
| ▪ Fertilizers  | (lbs. or %) | <i>Substantially</i> |
| ▪ Herbicides   | (lbs. or %) |                      |
| ▪ Pesticides   | (lbs. or %) |                      |
| Integrated Pest Management (IPM) Practices Implemented | (y/n)       |                      |

| (Preferred Units)  | Response  |
|--|---|
| Average Ratio of Anti-/De-Icing products used **<br>(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | <i>low salt use areas</i><br><i>300 yards</i><br><i>50% salt</i><br><i>300 yards</i><br><i>Sand 50%</i> |
| <i>Sand only or Sand/Salt mix. Never straight salt application.</i>  |   |
| Pre-wetting techniques utilized **   | 0%  |
| Manual control spreaders used **   | 6%  |
| Zero-velocity spreaders used **  | No  |
| Estimated net reduction or increase in typical year salt/chemical application rate   | Same  |
| Estimated net reduction or increase in typical year sand application rate **   | Same  |
| % of salt/chemical pile(s) covered in storage shed(s)  | 95%   |
| Storage shed(s) in design or under construction  | No  |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008   | Yes   |

**Water Supply Protection**

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