

Municipality/Organization: Town of Bedford, NH
EPA NPDES Permit Number: NHR041036
Mass DEP Transmittal Number: N/A
Annual Report Number & Reporting Period: Year 14
April 1, 2016 – March 31, 2017

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2017)**

Part I. General Information

Contact Person: Jeffrey W. Foote, P.E. **Title:** Director of Public Works

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Mailing Address: 24 North Amherst Road Bedford, NH 03110

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: Richard Sawyer

Title: Town Manager

Date: 4/11/2017

Part II. Self-Assessment

The Town of Bedford has completed the required self-Assessment and determined that the municipality has addressed each of the six minimum control standards and therefore is in substantial compliance with the permit conditions.

Our active participation with the storm-water group continues to be an important part of our program. We continue to share ideas and are working towards a collective public outreach program.

On November 29, 2016 the Manchester Regional Storm water Coalition met with the Nashua Regional Storm Water Coalition in Merrimack, NH. The two groups were joined by representatives from EPA, NHDES, Nashua Regional Planning as well as Sothern NH Planning. Members from each group spoke about the pending finalized NH Stormwater Permit. It was stated the permit maybe finalized by mid-January 2017. At the conclusion of the meeting it was decided to keep the two Coalitions together and a new meeting date was set for January 25 from 10-12. The January meeting with both groups was changed to February 16, 2017 along with a change in location as well. This meeting took place at BCTV in Bedford, NH. A guest speaker from EPA talked about the now finalized NPDES permit. It was a very informative meeting that was well attended. The Town of Bedford will continue to attend these informational meetings as they are scheduled to assist in the planning process with the now finalized permit.

Public Outreach continues to be an important aspect of the program as well. This past year in addition to displays at Town Fair, the Town continued our active participation in the McQuesten Brook Stream Team – the team’s annual brook clean-up was held on June 6, 2016 it was a beautiful day to be cleaning up.

The Town of Bedford gave a tour of the Transfer Station and Recycling Center to a group of girl scouts March 21, 2014. They each received a recycling bin and several handouts on recycling as well as information on Stormwater.

We will continue implementing existing BMP's for the coming year and will modify as necessary based on new permit requirements.

The Town of Bedford has hired a full time employee to work with the stormwater Program.

The new fueling station that was installed at the Town Garage site for fueling of all Town vehicles was completed end of September 2013. The existing steel fuel tanks were removed and replaced with two new underground fiberglass 10,000 gal fuel tanks. One tank is diesel and the second one is unleaded. The fueling area is now covered. All vehicles require a special key and a password to operate the pumps.

The fueling station continues to operate without any incidents.

The Town of Bedford investigated a sinkhole that was called into Public Works. A TV inspection was performed on the drain line. The results of this inspection showed that the drain line had been repaired in the past with different types of materials. There was a

partial blockage found and a break in the pipe that allowed gravel to infiltrate the line. The Town replaced the entire drain line with concrete pipe.

While contractors were rehabilitating a section South River Road on June 8th, 2015 a sewer lateral was discovered tied into an existing drain line. Corrective measures were taken to tie this service back into the sewer line.

The Town of Bedford hosted a NPDES meeting on October 6, 2015 with EPA as a guest speaker discussing the changes to the permit. The meeting was well attended by local and state officials.

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 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|---|-------------------------------|--|---|--|
| 1-1 | Maintain storm water Info and links on Town of Bedford website | DPW// M. McLaughlin | Review and update each year; add reference links to NHDES storm water site | Additional Related links under the Public Works portion of the Town web-page have been added. The Town is in the process of implementing a new Website. Once completed additional stormwater sites will be added. | Update links as necessary. |
| Revised | | | | | |
| 1-2 | Publish info on storm-water program and practices in local newspapers | DPW// M. McLaughlin | Publish articles each year in town bulletin and local newspapers | Quarterly Newsletter has discontinued service in town and therefore we were unable to include articles in this format. | Work on multi-community information campaign. |
| Revised | | | | | |
| 1-3 | Broadcast Public meetings (see BMP 2-2) | DPW// M. McLaughlin | 1 meeting per year | The group meets every 2 months to share information, but these meetings have not been broadcasted. | Continue discussions during Planning Board meetings: Include BMP 1-5 |
| Revised | | | | | |
| | | | | | |

1a. Additions

| | | | | | |
|-----|--|---|---|--|---|
| 1-4 | Annual Town Fair (Springfest) – display maintenance equipment and handout stormwater related materials | DPW// M. McLaughlin | 1 time each year in late spring | Equipment was on display and publications and handouts were available for distribution. | Continue with display – distribute materials. |
| 1-5 | Earth Day Scavenger Hunt | DPW// M. McLaughlin Bedford Middle School | Scavenger Hunt began in permit year 8 and continued into permit year 9 for 2 weeks. | Scavenger Hunt did not occur in permit Year 13, but expect to resume next year. | Participate in the activity each year. Expand the display to include additional literature. |
| 1-6 | McQuesten Brook Watershed Brook Clean-up – Website and postings | DPW/ M. McLaughlin | Team has a Public Kiosk and outreach advertisements. | Team has a Public Kiosk and outreach advertising for the June 6, 2016 clean-up. | Maintenance of site Kiosk board and continue with public participation in the brook clean-up. |
| 1-7 | Youth Group Presentations- Recycling Topics | DPW/M. McLaughlin | Conduct 1 outreach Presentation per year | Conducted site visit and presentation on Recycling to local Girl Scout group on Importance of recycling. | Continue to offer presentation to Youth groups. |

2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|--|-------------------------------|---|---|--|
| 2-1 | Conduct public meetings on storm water program and solicit public feedback | DPW/ J. Stanford | Conduct 4 meetings over the 5-year permit term | Stormwater and NPDES permit update was discussed at Town Council meeting broadcasted through BCTV. | Continue to solicit public input for Town-wide drainage system upgrades. |
| Revised | | | Conduct 2 meetings between year 4 and 5 | | |
| 2-2 | Establish a storm water management group to oversee the storm water management program | DPW/ J. Stanford | Establish group of volunteers during the first 2 years – include residents on group | The Stormwater group has been established with several other communities in Southern NH. We met approx. once every two months to discuss storm water issues and share ideas on the program. | Continue active participation with group. |
| Revised | | | Residents have not been included in the group as of yet. | | |
| | | | | | |

2a. Additions

| | | | | | |
|-----|--|--------------------|--|--|--|
| 2-3 | Purchase hybrid vehicles | DPW/ J. Stanford | Replace old gas vehicles with new electric hybrids | Maintained hybrid vehicles. | Continue maintenance of vehicles. |
| 2-4 | Help with local groups in trash pick-up program | DPW/E. Lacerte | Provide bags and pickup of trash for town clean-up days | Provided bags and trash pick-up with community groups. Also provided Merrimack River – Heritage Trail pickup with town staff. | Continue participation with local groups. |
| 2-5 | Implement Single Stream Recycling at Transfer Station | DPW/ J. Stanford | Reduce municipal solid waste. | Continued operation of single-stream recycling. | Continue with program. |
| 2-6 | Destination Imagination project participation – recycling. | DPW/ M. McLaughlin | Educate School Children/Town on importance of recycling. | Review educational campaign including new signage at Transfer Station (sign designed by elementary students). | Complete recycling sign/campaign at Transfer Station |

3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|---|-------------------------------|--|--|--|
| 3-1 | Map storm water drainage system and outfalls | DPW/ M. McLaughlin | Complete mapping by end of 5 year permit term | Outfalls mapped in previous years. Continued review of outfalls. Conversion of paper outfall data to GIS completed and is expanding to include entire drainage system. | Continue with GIS conversion as part of the next permit. |
| Revised | | | | | |
| 3-2 | Maintain map database on GIS system | DPW/ M. McLaughlin | Complete with system mapping (BMP 3-1) | GIS system in place. | Maintenance will be ongoing as data is received. |
| Revised | | | | | |
| 3-3 | Visually inspect outfalls for dry weather flows | DPW/E. Lacerte | Inspect a representative number of outfalls each year. Complete inspection of all outfalls by the end of 5 year permit term. | DPW continued to inspect outfalls this past year. To date only 1 illicit connection has been detected and eliminated. | Continue updating inventory as new developments come in and perform inspections. |
| Revised | | | | | |
| 3-4 | Implement a sampling and analysis program for dry weather flows | DPW/ M. McLaughlin | Sample any outfalls identified with dry weather flows under BMP 3-3 above. Complete sampling at identified outfalls as budget permits. | No sampling was done during permit Year 14. | Monitor outfalls and test any flows that are detected. |
| Revised | | | | | |
| 3-5 | Train DPW personnel to recognize illicit discharge | DPW/E. Lacerte | Annual training to include information on recognizing and reducing illicit discharges | Public Works did not attend any training seminars specific to stormwater in 2016. Other seminars on road maintenance were attended. | Continue training with additional storm water topics. |
| Revised | | | Training through T2 | | |
| 3-6 | Review and update Town bylaws and regulations to include illicit discharge ordinances | DPW/ J. Stanford | Years 1 and 2 – review existing ordinances | Existing policies are already in place. Review of projects includes stormwater maintenance and incorporation of BMPs. | Continue with comprehensive review process. |
| Revised | | | Conduct numerous discussions with Planning Board | | |

3a. Additions - Illicit Discharge Detection and Elimination

| | | | | | |
|-----|--|--------------------------|---|---|---|
| 3-7 | GIS mapping of drainage system for new permit | DPW/ M. McLaughlin | GPS locate and map remaining drainage system as expected in the new permit. | Funding approved in 2011 for entire drainage system GIS and management system – work continued on GIS conversion of data. | Continue collecting data on catch basins and drain manholes |
| 3-8 | Participate with McQuesten Brook Watershed - Canine Sniffing Services to investigate watershed | DPW/ M. McLaughlin | Incorporate these services into IDDE program. | Work with McQuesten Brook Team to schedule canine sniffing services to investigate commercial areas around the brook – also incorporate education campaign with these services. Program did not take place. | Participate in program. Reschedule program 2017 |
| 3-9 | Hire new in-house engineering technician for Town's Stormwater program including IDDE | DPW/ J. Stanford | In-house technician for Stormwater program. | Full Time position funded and filled for the Stormwater program. | Continue funding engineering technician position. |

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|---|-------------------------------|--|--|--|
| 4-1 | Storm water impact and design review process | Planning Board/R. Hebert | Continue current new-construction review process involving all appropriate departments | Reviewed new subdivision and site plans for storm water impact. Requested major and minor design changes to control development storm water discharge. | Continue design review process |
| Revised | | | | | |
| 4-2 | Visually inspect construction sites for proper erosion control measures | Planning Board/R. Hebert | Continue to inspect sites, record inspections and track violations | Inspected construction sites. Submitted information to owners and contractors about design storm water control measures. Planning staff along with contracted inspectors were very aggressive in ensuring compliance. | Continue with inspection process |
| Revised | | | | | |
| 4-3 | Construction Site Runoff Control | Planning Board/J. Stanford | Review existing regulations to require sediment and erosion control measures on construction sites | Existing regulations are in place. Developments were not allowed to proceed with construction until control measures were satisfactorily in place. Contracted inspectors monitored sites for routine maintenance of erosion control. | Continue with updating regulations/policies as needed. |
| Revised | | | | | |

4a. Additions - None

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 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|---|-------------------------------|---|---|---|
| 5-1 | Conduct storm water impact and design review process (in conjunction with BMP 4-1) | Planning Board/R. Hebert | Continue current review process involving all appropriate departments | Continued design review meetings with Town Personnel approx. every two weeks. | Continue review process |
| Revised | | | | | |
| 5-2 | Review and update Town bylaws and regulations regarding post construction storm water management provisions | Planning Board/R. Hebert | Years 1 and 2 – review existing ordinances | Sample ordinances have been proposed in stormwater group communities. Group reviewed proposed regulations and continued to comment on proposed changes. | Continue with regulation /policy update implementation as needed. |
| Revised | | | Continue review and discussions with stormwater group | | |
| Revised | | | | | |

5a. Additions - None

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 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|----------|---|-------------------------------|--|---|--|
| 6-1 | Street Sweeping | DPW/E. Lacerte | Continue to sweep selected streets annually and increase frequency of sweeping as budget allows | Swept approximately 25% of Town owned streets. A new Regenerative Air sweeper purchased July 2014. Additional sweeping is expected for year 2016. | Continue with program. |
| Revised | | | Maintain volume records of material collected. | | |
| 6-2 | Catch Basin cleaning | DPW/E. Lacerte | Continue to clean catch basins annually and as needed in areas of high flooding. | Performed catch basin cleaning on town-owned catch basins in the commercial districts. Also performed street swale maintenance and cleaning. | Continue with program and expand as necessary. |
| Revised | | | Maintain volume records of material cleaned from catch basins and swales. | | |
| 6-3 | Collect household hazardous waste | DPW/J. Spooner | Continue hazardous waste collection days at the Transfer Station | Conducted 1 hazardous Waste collection day (May 7, 2016) at the Town Garage. | Conduct 1 household hazardous waste collection day – Scheduled for May or June in 2017 |
| Revised | | | Funding will only allow conducting 1 special collection day this year | | |
| 6-4 | Collect yard waste | DPW/J. Spooner | Continue yard waste drop off at Transfer Station | Yard waste drop off was in operation throughout the year. | Continue with drop off program. |
| Revised | | | | | |
| 6-5 | Maintain the storm water management program | DPW/ M. McLaughlin | Maintain written program summary; update as necessary; submit reports annually in accordance with the permit | Tracked annual performance. Completed annual update in compliance with Permit. | Continue with tracking and compliance. |
| Revised | | | | | |
| 6-6 | Implement Storm Water Pollution Prevention Plan for DPW garage and transfer station | DPW/ M. McLaughlin | Maintain plan at each facility | Single stream recycling in operation. Continue to clean areas of debris to avoid trash, etc. from uncontrolled runoff. Working on pollution prevention plans for both locations | Continue with keeping sites clean. Make any necessary changes. |
| Revised | | | Inspected each site for any deficiencies. | | |
| 6-7 | Constructed new shed for storage of road salt | DPW/ J. Stanford | Reduce amount of salt that is washed off-site. | Salt shed was in full operation. Winter loading of salt was done under cover of the new shed. Purchased 2 new zero-velocity spreaders. | Continue with operation as discussed. Purchase 1 additional zero velocity spreader. |
| | Revised | | Continue to maintain salt shed. | | |

6a. Additions - None

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 14 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 15 |
|-----------------|--|--------------------------------------|--|---|---|
| 7-1 | Monitor and sample discharges to impaired water ways | DPW/ M. McLaughlin | Monitor discharges and collect samples of discharges to impaired waters as budget allows | We have not identified any direct discharges into the impaired water ways. But continue to monitor roadside swales. | Continue monitoring of swales near impaired waters and expand the program as necessary. |
| Revised | | | Monitor indirect discharges. | | |
| | | | | | |
| Revised | | | | | |

7a. Additions

| | | | | | |
|---------|--|--------------------|--|--|--|
| 7-2 | Member of McQuesten Brook Stream Team. Grant awarded to study brook. | DPW/ M. McLaughlin | Study Brook restoration. Apply for grant to make improvements. | Attended continuing meetings with stakeholders. Various agencies participating in the project. | Plan on attending brook clean-up scheduled for June 2017 |
| Revised | | | | McQuesten Brook Geomorphic Assessment and Watershed Restoration Plan, Final Report October 1, 2013 | Continue assisting with this project. |

7b. WLA Assessment

We have not identified any direct discharges into the impaired waterways; however there were a few indirect overflow structures that ultimately flow into Riddle Brook. Bond funds were approved in 2011 for two drainage/road projects in adjacent areas to impaired waters. Projects were completed in 2013. We also funded and hired an in-house engineering technician for the stormwater program.

Part IV. Summary of Information Collected and Analyzed

The program continues to benefit by our participation in the storm water group created with other southern New Hampshire communities. Although the permit covers individual municipalities, the group continues to approach stormwater from a regional perspective. In anticipation of the new permit and expected requirement to expand mapping of entire drainage system, work continued on full computer mapping and computer based management system (outfalls have already been converted to GIS). Town representatives are continuing to participate in the McQuesten Brook stream team. The McQuesten Brook Geomorphic Assessment and Watershed Restoration Plan, Final Report was completed in October 1, 2013.

A private house, located on a dead end street, was purchased by the Town with plans to demolish it to allow for the brook to return to a more natural state. The house was demolished and the brook was returned to its more natural state.

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, 2016 through March 31, 2017)

Programmatic

| | (Preferred Units) | Response |
|---|-------------------|-----------------------|
| Stormwater management position created/staffed | (y/n) | yes |
| Annual program budget/expenditures ** | (\$) | 5,000 |
| Total program expenditures since beginning of permit coverage | (\$) | 70,000 |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) | | Bond and General Fund |
| | | |

Education, Involvement, and Training

| | | |
|--|---------------|-----|
| Estimated number of property owners reached by education program(s) | (# or %) | 30% |
| Stormwater management committee established | (y/n) | No |
| Stream teams established or supported | (# or y/n) | Yes |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n or mi.) | No |
| Shoreline cleaned since beginning of permit coverage | (mi.) | 0 |
| Household Hazardous Waste Collection Days | | |
| ▪ days sponsored ** | (#) | 1 |
| ▪ community participation ** | (# or %) | 20% |
| ▪ material collected ** Various types of containers not easily converted into tons or gal | (tons or gal) | |
| School curricula implemented | (y/n) | No |
| | | |

Legal/Regulatory

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

| | | | | | |
|---|---|---|--|--|--|
| ▪ Illicit Discharge Detection & Elimination | | X | | | |
| ▪ Erosion & Sediment Control | X | | | | |
| ▪ Post-Development Stormwater Management | | X | | | |

Mapping and Illicit Discharges

| | (Preferred Units) | Response |
|--|------------------------|----------|
| Outfall mapping complete | (%) | 100 |
| Estimated or actual number of outfalls | (#) | 367 |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%) | 70 |
| Mapping method(s) | | |
| ▪ Paper/Mylar | (%) | 10 |
| ▪ CADD | (%) | 10 |
| ▪ GIS | (%) | 80 |
| Outfalls inspected/screened ** | (# or %) | 20% |
| Outfalls inspected/screened (Since beginning of permit coverage) | (# or %) | 100% |
| Illicit discharges identified ** | (#) | 0 |
| Illicit discharges identified (Since beginning of permit coverage) | (#) | 2 |
| Illicit connections removed ** | (#); and (est. gpd) | 0 |
| Illicit connections removed (Since beginning of permit coverage) | (#); and (est. gpd) | 2 |
| % of population on sewer | (%) | 15 |
| % of population on septic systems | (%) | 85 |

Construction

| | (Preferred Units) | Response |
|--|-------------------|----------|
| Number of construction starts (>1-acre) ** | (#) | 35 |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%) | 100 |
| Site inspections completed ** | (# or %) | 35 |
| 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 | (%) | Unknown |
| Site inspections (for proper BMP installation & operation) completed ** | (# or %) | Unknown |
| BMP maintenance required through covenants, escrow, deed restrictions, etc. | (y/n) | Yes |
| Low-impact development (LID) practices permitted and encouraged | (y/n) | Yes |
| | | |
| | | |

Operations and Maintenance

| | | |
|--|-------------------------|---------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) ** | (times/yr) | 1 |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr) | 1 |
| Qty of structures cleaned ** | (#) | 239 |
| Qty. of storm drain cleaned ** | (%, LF or mi.) | 120 |
| Qty. of screenings/debris removed from storm sewer infrastructure ** | (lbs. or tons) | 64 yards |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Crush/recycle |
| Basin Cleaning Costs | | |
| • Annual budget/expenditure (labor & equipment)** | (\$) | \$15,000 |
| • Hourly or per basin contract rate ** | (\$/hr or \$ per basin) | 120/Hr |
| • Disposal cost** | (\$) | Unknown |
| Cleaning Equipment | | |
| • Clam shell truck(s) owned/leased | (#) | 0 |
| • Vacuum truck(s) owned/leased | (#) | 0 |
| • Vacuum trucks specified in contracts | (y/n) | Yes |
| • % Structures cleaned with clam shells ** | (%) | 0 |
| • % Structures cleaned with vacor ** | (%) | 100 |

| | (Preferred Units) | Response |
|---|-----------------------|----------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) ** | (times/yr) | 1 |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr) | 4 |
| Qty. of sand/debris collected by sweeping ** | (lbs. or tons) | 192 yds. |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Recycle |
| Annual Sweeping Costs | | |
| • Annual budget/expenditure (labor & equipment)** | (\$) | \$20,000 |
| • Hourly or lane mile contract rate ** | (\$/hr. or ln mi.) | In-house |
| • Disposal cost** | (\$) | unknown |
| Sweeping Equipment | | |
| • Rotary brush street sweepers owned/leased | (#) | 0 |
| • Vacuum street sweepers owned/leased | (#) | 1 |
| • Vacuum street sweepers specified in contracts | (y/n) | No |
| • % Roads swept with rotary brush sweepers ** | % | 0 |
| • % Roads swept with vacuum sweepers ** | % | 30 |

| Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination) | | |
|--|-------------|---------|
| ▪ Fertilizers | (lbs. or %) | Unknown |
| ▪ Herbicides | (lbs. or %) | Unknown |
| ▪ Pesticides | (lbs. or %) | N/A |
| Integrated Pest Management (IPM) Practices Implemented | (y/n) | No |
| | | |

(Preferred Units) Response

| | | |
|--|---|-----------------------------------|
| Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand | 50 0 0 0 0 0 50 |
| Pre-wetting techniques utilized ** | (y/n or %) | No |
| Manual control spreaders used ** | (y/n or %) | Yes |
| Zero-velocity spreaders used ** | (y/n or %) | Yes |
| Estimated net reduction or increase in typical year salt/chemical application rate | (±lbs/l _n mi. or %) | Unknown |
| Estimated net reduction or increase in typical year sand application rate ** | (±lbs/l _n mi. or %) | Unknown |
| % of salt/chemical pile(s) covered in storage shed(s) | (%) | 100 |
| Storage shed(s) in design or under construction | (y/n or #) | No |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008 | (y/n) | Yes |
| | | |
| | | |