

Municipality/Organization: Town of Oxford

EPA NPDES Permit Number: MAR041147

MaDEP Transmittal Number: W-041061

**Annual Report Number
& Reporting Period:** No. 11: March 2013-March 2014

NPDES PII Small MS4 General Permit Annual Report


Part I. General Information

Contact Person: Sean M. Divoll, P.E. **Title:** Director of Public Works

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Joseph M. Zeneski

Title: Town Manager

Date: April 29, 2014

Part II. Self-Assessment

The Town of Oxford has successfully conducted activities addressing the Minimum Control Measures of the NPDES Phase II Stormwater Permit during Year 11 of the permitting period. Specific activities and goals achieved are outlined in the following paragraphs and in Part III of this Annual Report.

In addition to meeting requirements set out in the Town of Oxford's Best Management Practices Plan, the Town of Oxford continued to be an active participant in the Central Massachusetts Regional Stormwater Coalition (the Coalition). The Coalition's work in Year 11 was funded by a \$115,000 fiscal year 2013 (FY2013) Community Innovation Challenge (CIC) grant from the Massachusetts Executive Office of Administration and Finance. This grant was supplemented by a contribution of approximately \$2,800 from each of the 30 Towns, including Oxford. The following is an outline of the Coalition structure and activities.

Central Massachusetts Regional Stormwater Coalition Overview

The FY2013 Coalition communities included 13 communities that formed the Coalition during the previous year (Auburn, Charlton, Dudley, Holden, Leicester, Millbury, Oxford, Paxton, Shrewsbury, Spencer, Sturbridge, Webster, and West Boylston) plus 17 new "Expansion" Towns (including Boylston, Grafton, Hardwick, Hopkinton, Monson, Northbridge, Northborough, North Brookfield, Palmer, Rutland, Southbridge, Sterling, Upton, Uxbridge, Ware, Westborough, and Wilbraham).

The FY2013 work included numerous technical tasks focused on compliance with the 2003 Massachusetts MS4 Permit, although much of the Coalition's work prepares the communities to comply with requirements anticipated in the pending 2014 Massachusetts MS4 Permit.

The FY2013 effort included monthly meetings of the Coalition Steering Committee, four formal training workshops, and other presentations. Oxford participated in one of the training workshops, reviewed deliverables, and served other key roles as described in this Annual Report.

The Coalition's Partnerships in Central Massachusetts

The Coalition is actively engaged with many water quality agencies and organizations and is committed to sharing the knowledge it has developed for the benefit of other communities.

The Coalition expanded its partnership with the Massachusetts Department of Environmental Protection (MassDEP) in FY2013, formally including a budget in its FY2014 CIC Grant Application to support and assist in development of the stormwater-focused Interactive Qualifying Project (IQP) with four students at the Worcester Polytechnic Institute (WPI). The IQP will provide two products highly useful to Coalition communities:

1. A Compliance Checklist, evaluating the 2003 Massachusetts MS4 Permit and looking forward to the pending 2014 Massachusetts MS4 Permit (based on the Draft 2013 New Hampshire MS4 Permit). This serves as a tool for Coalition communities to identify their most critical priorities in preparation of the new MS4 permit and fully compliments the Coalition's other tasks.

2. A Catchment Ranking tool, which processes user input including water quality screening data, land use and development, history of illicit discharges, and other criteria to suggest ranking into one of the four catchment categories defined in the Draft 2013 New Hampshire MS4 Permit.

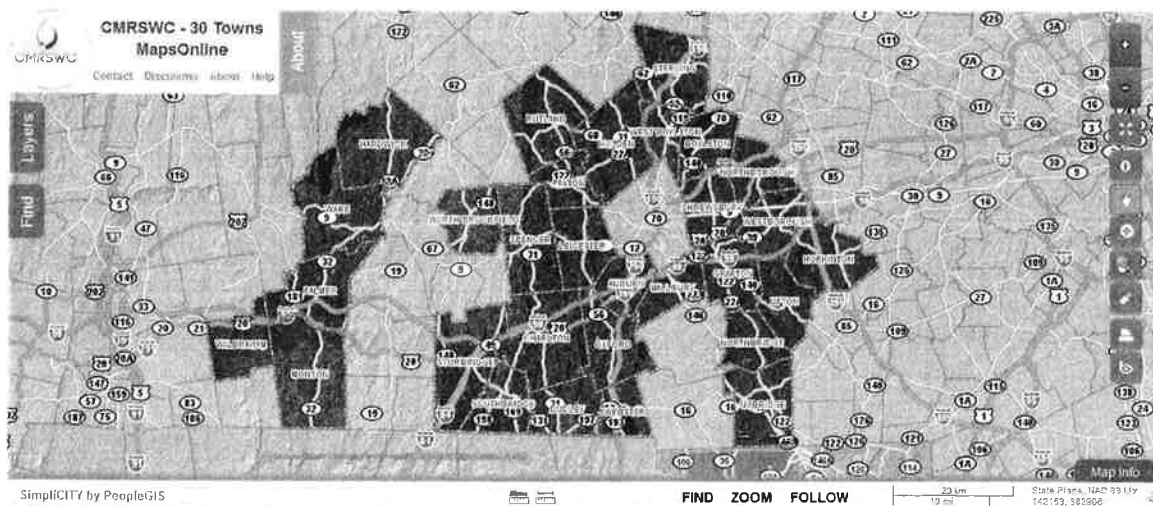
Many Coalition communities, including Oxford, are working in Spring 2014 with the WPI IQP project, benefiting from the students' mapping and inspection services as well as a detailed review of municipal stormwater management programs. For the latter, the WPI IQP will quantify the actual cost of the participants' stormwater programs, which will serve as the foundation for ongoing discussions about how each community will fund future stormwater programs.

Tasks Included in this Annual Report

In Year 11, Oxford continued to utilize the 15 Standard Operating Procedures (SOP's) developed by the Coalition in Year 10, and intended to provide guidance on activities required or encouraged by the 2003 Massachusetts Small MS4 Permit. These SOPs address such diverse activities or needs as outfall inspection (both dry weather and wet weather), catch basin cleaning, erosion and sedimentation control, oil/water separator maintenance, use and storage of pesticides and fertilizers, and many more. The group developed standard forms and methodologies for these procedures, many of which were incorporated into the Integrated Online Mapping and Inspection System, described in following paragraphs.

The following descriptions of the technical tasks and resources made possible by the CIC grant funding have been separated into sections that mirror the six Minimum Control Measures (MCM's) in the 2003 Massachusetts Small MS4 Permit.

One of the more innovative tools developed by the Coalition in Year 10 and expanded in Year 11, supports many MCM's and is noted separately: an integrated online mapping and inspection database. The database is cloud-based, and can be accessed by all 30 member communities through a desktop or tablet computer. Below is a screen shot of the platform showing the extent of Coalition communities.



In Year 11, the online mapping and inspection system was expanded for all 30 communities to include the ability to add pipe between structures, and gather data related to that pipe. Prior to Year 11, the system managed only point geometry, such as outfall, catch basin, drain manhole, and Best Management Practice infrastructure. All 30 Coalition communities will benefit from this new linear infrastructure feature, which is consistent with the requirements anticipated in the pending 2014 Massachusetts MS4 Permit. All 30 communities can see each other's infrastructure, but each maintains full control over their asset information and water quality data. This tool represents the essence of the Coalition project's message, which is that stormwater is regional- it doesn't stop at a community boundary.

Mapped infrastructure is connected to inspection reports that mirror the hard-copy forms developed in Year 10. The developed integrated mapping and inspection system is so comprehensive and flexible that it does not fit into just one of the MCM's. It aids communities with public education and outreach (MCM 1), as surveying is a highly-visible activity that will generate questions, and would make an engaging demonstration to school groups. The integrated mapping and inspection database documents evidence of potential illicit discharges or the absence thereof (MCM 3), aids construction site stormwater control (MCM 4) by allowing for data evaluation of how much sediment is contained in a sump, and makes good housekeeping (MCM 6) easier by collecting data on how often catch basins are cleaned.

Minimum Control Measure 1: Public Education and Outreach

In Year 11, Oxford continued to utilize materials on a variety of topics appropriate for public education and outreach, which were compiled or developed by the Coalition in Year 10. The topics include illicit discharge detection and elimination, management of pet wastes, and appropriate use of fertilizer, among others. These materials are all available on the Coalition's website, www.CentralMAStormwater.org. Oxford also has access to presentations on stormwater management, with content focused on educating the general public, elected officials, and volunteer groups.

Minimum Control Measure 2: Public Involvement and Participation

In Year 11, Oxford continued to utilize several presentations on stormwater management, with content focused on educating elected officials and municipal department heads about the requirements of the 2003 Small MS4 Program, changes likely in the anticipated 2014 Massachusetts MS4 Permit, and the financial impact these potential changes may have on Massachusetts communities.

Minimum Control Measure 3: Illicit Discharge Detection and Elimination

In Year 11, Oxford attended training on "Locating Illicit Discharges", intended to define the types of illicit discharges that may be observed in the Coalition communities and provide guidance on tools that can be used to identify each.

In Year 10, the Coalition purchased several water quality field kits and meters, most of which are focused on identifying illicit discharges and aligned with the field screening parameters expected to be listed in the pending Massachusetts Small MS4 permit. In Year 11, the Coalition began the process of rotating these water quality kits and meters around the 30 Coalition communities. The Coalition provided training on the use of these water

quality kits; this training was professionally recorded so that Towns can review it when they need a refresher.

The Coalition purchased additional water quality field kits in Year 11, based on materials provided by USEPA Region 1 Technical Assistance staff that summarized products recently approved by the agency for this use. The online inspection and mapping database enables any community to add screening-level or full analytical data to any inspection form, for any type of infrastructure, in the field. The online water quality monitoring forms are pre-populated with the specific water quality field kits and meters purchased and used by the Coalition.

In Year 11, the Coalition drafted a Request for Proposals (RFP) for a third-party firm to perform many of the field or inspection services defined in the 15 SOP's, including outfall inspection (dry weather and/or wet weather), water quality monitoring, catch basin inspection, and other related tasks. These services are all vital to the effort to identify illicit discharges in the Coalition communities. It was originally anticipated that the work of the RFP would be funded using FY2013 CIC monies. However, in Year 11, the Coalition Steering Committee voted to postpone putting the RFP out to bid, based on the fact that the new Massachusetts MS4 Permit has not yet been issued. This RFP will be re-evaluated in Year 12.

Minimum Control Measure 4: Construction Site Stormwater Runoff Control

In Year 11, Oxford made use of the Construction Best Management Practices (BMP) included in the Coalition's Stormwater Best Management Practices Toolbox described in the following section. The Construction BMP is a comprehensive tool that covers site planning, erosion control, stormwater pollution prevention, and appropriate management of waste materials. It was written to inform the general public about the importance of managing private construction projects responsibly.

Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment

In Year 11, Oxford made use of the Stormwater Toolbox, developed in Year 10 and finalized in Year 11. This tool compiles the stormwater post-development tools currently permitted and encouraged for small development or redevelopment, specifically single-family homes and limited commercial renovations that have a small development footprint. The Stormwater BMP Toolbox provides technical data, design factors, and construction limitations with these BMPs in non-technical language. The objective was to provide the average property owner with easy-to-understand information that encourages them to select low-impact stormwater management tools for their properties, construct them safely, and maintain them for long-term benefit. The BMPs in the Toolbox are consistent with the requirements of the current Small MS4 Permit, the Massachusetts Stormwater Handbook and other current guidance documents.

Minimum Control Measure 6: Pollution Prevention and Good Housekeeping in Municipal Operations

In Year 11, Oxford continued to utilize the Salt/Sand Benchmarking tool developed in Year 10 from the guidance of the Oxford DPW Director. The Benchmarking tool calculates the present loading rate of chloride (per lane-mile) presently applied by its salt trucks and other municipal vehicles, regardless of the compound (e.g.: sodium chloride, green salt, calcium chloride) or form (e.g., solid or liquid, mixed with sand), and in

evaluating alternative application methods and materials to current practices. The Benchmarking tool deliverable guides communities through two different equipment calibration processes and suggests a target reduction rate that is coupled to and appropriate for the benchmarked loading rate. The objective of this task is to reduce the overall loading of chlorides to surface waters in the region while maintaining safe conditions on roadways.

In Year 11, Oxford held numerous training sessions and meetings to explain the sand-versus-salt analysis and explain how to properly use deicing materials. For its efforts in developing and sharing the Salt/Sand Benchmarking tool, the Oxford DPW was named Department of the Month in August 2013 by the Public Works Magazine.

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 11 | Planned Activities – Next Permit Period |
|-----------------|--|---|---|--|--|
| 1A Revised | Develop Stormwater Section of Town Website | Highway Department and Town Website Manager (s) | Measure number of hits annually. | The Stormwater Management website continues to be updated with information for Town residents and Town staff. Additionally, the CMRSWC website is continually updated with coalition project information and educational materials. | Continue to update the website as needed. |
| 1B Revised | Develop and Broadcast Stormwater Presentation on Local Cable Network | Highway Department and Conservation Commission | Cable TV tapes of shows. | No progress due to lack of equipment and personnel to develop presentation. | Research other sources for developing a local stormwater presentation. |
| 1C Revised | Distribute Brochures and Fact Sheets to Businesses and Residents <i>In addition to hard copy brochures and fact sheets, provide an online reference tool.</i> | Highway Department and Conservation Commission | Number of articles and copies of materials. | <i>Homeowner Tips for Cleaner Stormwater</i> flyer was developed and distributed to residents during the Annual Bulk Drop-Off Day. Fact sheets and brochures were continued to be handed out at the Land Management Office window at Town Hall. An online Stormwater Toolbox has been made available for businesses and residents. | Continue to develop and distribute fact sheets and information flyers. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|----------|---|--|----------------------------|--|---|
| 1D | Develop Stormwater Management Video | Highway Department and Conservation Commission | Number of rentals. | Additional documentary videos have been obtained for broadcast on the local access channel: <i>Reduce Runoff: Slow it Down, Spread it Out, Soak it In!</i> is a compilation of four videos co-produced by the EPA and The Weather Channel | Periodically broadcast the documentaries on the Oxford Cable Access channel. |
| Revised | Obtain a Stormwater Management Educational Video rather than create our own | | | | |
| 1E | Develop a Poster Display Regarding Stormwater Issues | Highway Department and Conservation Commission | List of display locations. | Oxford Public Schools displayed posters at Earth Day celebrations. | Oxford Public Schools plan to continue displaying posters for Earth Day celebrations. |
| Revised | | | | | |

1a. Additions

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2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|---------------|---|---|--|--|---|
| 2A Revised | Mark Storm Drains with Buttons or Stencils | Highway Department, Conservation Commission, and Volunteers | 50% of the storm drains marked by year 5 with door hangers placed in associated neighborhoods. | 100% of catch basins were stenciled in previous permit years. Volunteers re-stenciled approximately 150 catch basins during this reporting period. | Oxford DPW plans to continue with the stenciling program in the next Permit Period |
| 2B Revised | Establish a Storm Water Telephone Hotline We have determined that a separate 'hotline' is not necessary or feasible. Oxford DPW takes all stormwater calls on the main DPW phone number. | Highway Department and Town Website Manager (s) | Record number of phone calls to hotline, copies of articles. | Oxford DPW fielded 23 calls. An automated tracking system has been developed to record stormwater-related issues. | Oxford DPW plans to continue taking stormwater calls on the main DPW phone number. |
| 2C Revised | Conduct River, Stream, and Pond Cleanups | Highway Department, Conservation Commission, and Volunteers | Cleaner streams as documented by before and after photographs. | Several cleanup activities were conducted by volunteers on the French River, Lowes Brook and along Barbers Hollow Brook. | Continue to coordinate/encourage volunteer cleanup projects. |
| 2D Revised | Establish a Native Tree and Shrub Planting Program | Highway Department, Conservation Commission, and Volunteers | Record the number, location and kind of tree or shrub planted. | A Rain Garden was incorporated into the Town Hall parking lot redesign and planted by the Town with native vegetation. | Oxford DPW will continue to work with local organizations to identify opportunities to continue planting native trees and shrubs in town. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|---------------|---|--|--|--|--|
| 2E Revised | Establish a Classroom Education Program | Conservation Commission | Classroom education program implemented by Year 5. | An Educational Section of the CMRSWC website includes Classroom Educational Programs addressing stormwater management, water quality issues and monitoring activities. | Work with the School Department to incorporate Stormwater Educational Programs into the school's curriculum. |
| 2F Revised | Prepare Press Releases | Highway Department and Conservation Commission | Copies of press articles. | No press releases were issued. | Press releases will be issued on an as-needed basis. |

2a. Additions

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3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|---------------|---|---|--|---|---|
| 3A Revised | Develop Town Storm Drain Outfall Map | Highway Department, Planner/Engineer, Outside Resources (possibly Worcester Polytech) | All outfalls mapped by Year 5. | The DPW has completed mapping the entire storm drain system. The inventory has been incorporated into an integrated stormwater mapping and inspection system. | Continue fine-tuning the GIS mapping system |
| 3B Revised | Develop Illicit Discharge Prohibition Ordinance | Planning Board and Board of Health | Obtain authorization to control inputs to the municipal drainage system. Bylaw at Town meeting by end of Year 2. | Illicit Discharge By-law was adopted in 2005. | Continue enforcement of by-law. |
| 3C Revised | Develop Illicit Discharge Detection and Elimination Plan and Implement Activities | Highway Department, Planning Board, and Board of Health | All outfalls examined by Year 4. Sources traced and conclusion documented within one year of discovery. | Sub-watersheds have been identified and prioritized. Several Illicit discharges have been noted and investigated utilizing the Illicit Discharge Standard Operating Procedure. | Oxford DPW will continue to follow up on all illicit connections in the following permit period |
| 3D Revised | Incorporate Information on Illicit Discharges into Public Education and Outreach Topics | DPW | Copies of materials. | Information on Illicit Discharge has been made available on the Town's website and the CMRSWC website and includes a Resource Toolbox for homeowners. Illicit Discharge hand-outs have been made available at the Town Hall for the public and were handed out at Bulk Item Drop Off Days. | Oxford DPW plans to continue to update the website with additional information and resources. New informational brochures will be created and distributed. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|----------|--|--|--------------------------------------|--|--|
| 3E | Identify Department to Take Stormwater Calls | Highway Department and Board of Health | Log of complaints and actions taken. | The Oxford DPW and Board of Health continue to take illicit discharge calls. An automated tracking system has been developed to record stormwater-related issues. | Continue coordination effort among Oxford DPW and BOH. |
| Revised | | | | | |

3a. Additions

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4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|----------|--|--|--|--|---|
| 4A | Develop Erosion Control Regulation | Planning Board, Board of Health, and Conservation Commission | Bylaw at Town meeting by end of Year 3. | A Stormwater Management and Land Disturbance By-law was adopted in 2005. | Continue enforcement of by-law. |
| Revised | | | | | |
| 4B | Conduct Inspections for Erosion Controls | Planning Board, Highway Department, and Consultant | Inspection checklist and documented inspections. | Erosion Control Inspections have been conducted by DPW personnel and the Conservation Commission. | Continue inspections. |
| Revised | | | | | |
| 4C | Identify Department to Take Stormwater Calls | Planning Board and Highway Department | Record number of phone. | The Oxford DPW and Planning Board continue to take stormwater-related calls. An automated tracking system has been developed to record stormwater-related issues. | Continue coordination effort among Oxford DPW and Planning Board. |
| Revised | | | | | |

4a. Additions

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

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|-----------------|--|--|--|---|--|
| 5A Revised | Develop BMP Regulation | Planning Board and Selectmen | Bylaw at Town meeting by end of Year 2. | A Stormwater Management By-law was adopted in 2005. | Continue enforcement of by-law. |
| 5B Revised | Develop and Implement Inspection Program | Planning Board, Highway Department, and Consultant | Retain copies of maintenance reports received annually, plus records of inspections completed and results. | Inspection program on-going. | Continue inspection program. |

5a. Additions

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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 11 | Planned Activities – Next Permit Period |
|---------------|--|-----------------------------------|---|--|---|
| 6A Revised | Clean Catch Basins | Highway Department | Clean all catch basins. | 100% of all catch basins were cleaned | Continue to clean 100% of all catch basins. |
| 6B Revised | Sweep Streets in Town | Highway Department | Priority plan of sweeping based on water quality impact. Volume of sweepings collected. | 100% of streets swept | Continue to sweep 100% of all streets. |
| 6C Revised | Develop an Inspection and Maintenance Plan | Highway Department | Written schedule and records of inspections and maintenance. | Inspections and repair are noted in a log by the Operations Manager. An electronic inspection system has been developed using mobile devices. | Oxford DPW will continue with its inspection and maintenance plan in the next permit period. DPW personnel will be trained for mobile device use in the next permit period. |
| 6D Revised | Continue Existing Pollution Prevention and Good Housekeeping Practices at the Highway Garage | Highway Department | Ensure existing practices are continued. | Good Housekeeping on-going. | Continue on-going good housekeeping. |
| 6E Revised | Evaluate Alternative Vehicle Washing Options at the Highway Garage | Highway Department and Consultant | New method for handling vehicle wash water at the site by the end of Year 2. | Request for a new DPW building feasibility study has been submitted to the Finance Committee for review. Funding remains a challenge. | Meet with Finance Committee for recommendation for funding at a future Town Meeting. |
| 6F Revised | Evaluate Pollution Prevention BMPs for the Fueling Station at the Highway Garage | Highway Department and Consultant | As-built sketches or plans and photos. | A Fuel and Oil Handling Standard Operation Procedure has been developed. | Continue evaluation process. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 | Planned Activities – Next Permit Period |
|---------------|--|---|---|--|--|
| 6G Revised | Evaluate Municipal Facilities Throughout Town for Potential Stormwater Impacts | Highway Department and Consultant | As-built sketches or plans and photos. | Complete. | Re-evaluate on an as-needed basis. |
| 6H Revised | Ensure Proper Waste Disposal in Town for Hazardous and Special Wastes | Highway Department and Board of Health | Document quantity of wastes collected annually. | On-going | Continue hazardous and special waste disposal vigilance. |
| 6I Revised | Ensure Water Quality Improvements are Considered for Flood Projects | Highway Department | Records of Flood Control Projects | N/A. | N/A. |
| 6J Revised | Conduct Town Employee Stormwater Training | Town Administrator, Highway Department, Police and Fire Departments, and Consultant | Attendance sheet and copy of program. | Town staff attended a training workshop presented by the CMRSWC addressing Illicit Discharges and Snow & Ice Control training. A Stormwater Management education presentation for Town employees has been developed. | Conduct training program. |

6a. Additions

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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|----------|--|--|--|---|---|
| 7A | Develop a Water Quality Strategy for 303d Waters | Town Engineer & Consultant | Summary of existing pollution prevention efforts, future needs, and responsible parties. Copy of surface water quality strategic plan. | All roadways scheduled for reconstruction are now constructed with deep sump catch basins and cleanable outfalls. | Continue drainage improvements. |
| | Revised | | | | |
| 7B | Implement BMPs from Water Quality Strategy | Town Engineer, Consultant, & Town Departments (to be determined) | Photographs, logs, and BMP descriptions for completed efforts and water quality improvements. | No progress. | See BMP 7A |
| | Revised | | | | |

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

None.

Part V. Program Outputs & Accomplishments (OPTIONAL)

The Town has brought renewed effort to bring Oxford fully into compliance with the NPDES minimum control measures. Programmatic

| | | |
|--|-------|----------|
| Stormwater management position created/staffed | (y/n) | yes |
| Annual program budget/expenditures | (\$) | \$15,000 |
| | | |
| | | |

Education, Involvement, and Training

| | | |
|---|---------------|--------------|
| Estimated number of residents 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.) | Appr. 1 mile |
| Household Hazardous Waste Collection Days | | |
| ▪ days sponsored | (#) | 0 |
| ▪ community participation | (%) | 0 |
| ▪ material collected | (tons or gal) | 0 |
| School curricula implemented | (y/n) | no |
| | | |
| | | |

Legal/Regulatory

| | In Place Prior to Phase II | Under Review | Drafted | 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

| | | |
|--|------------|--------------|
| Outfall mapping complete | (%) | 100% |
| Estimated or actual number of outfalls | (#) | 289 |
| System-Wide mapping complete | (%) | 100% |
| Mapping method(s) | | |
| ▪ Paper/Mylar | (%) | 0% |
| ▪ CADD | (%) | 0% |
| ▪ GIS | (%) | 100% |
| Outfalls inspected/screened | (# or %) | 20 inspected |
| Illicit discharges identified | (#) | 2 |
| Illicit connections removed | (#) | 0 |
| | (est. gpd) | |
| % of population on sewer | (%) | 13% |
| % of population on septic systems | (%) | 87% |
| | | |
| | | |

Construction

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

Post-Development Stormwater Management

| | | |
|--|----------|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 95% |
| Site inspections completed | (# or %) | 100% |
| Estimated volume of stormwater recharged | (gpy) | ? |
| | | |
| | | |

Operations and Maintenance

| | | |
|--|----------------|----------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) | (times/yr) | 2-times |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) | (times/yr) | 2-times |
| Total number of structures cleaned | (#) | 1,882 |
| Storm drain cleaned | (LF or mi.) | 0 |
| Qty. of screenings/debris removed from storm sewer infrastructure | (lbs. or tons) | 900-tons |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) | | landfill |
| Cost of screenings disposal | (\$) | 0 |
| | | |
| | | |

| | | |
|--|----------------|------------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) | (times/yr) | 2-times |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr) | 4-times |
| Qty. of sand/debris collected by sweeping | (lbs. or tons) | 1,500-tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) | (location) | landfill |
| Cost of sweepings disposal | (\$) | 0 |
| Vacuum street sweepers purchased/leased | (#) | 0 |
| Vacuum street sweepers specified in contracts | (y/n) | no |
| | | |
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|--|-------------|-----|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) | | |
| ▪ Fertilizers | (lbs. or %) | 20% |
| ▪ Herbicides | (lbs. or %) | N/A |
| ▪ Pesticides | (lbs. or %) | 20% |
| | | |
| | | |

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|--|---------------------|-----|
| Anti-/De-Icing products and ratios | % NaCl | 95% |
| | % CaCl ₂ | 5% |
| | % MgCl ₂ | |
| | % CMA | |
| | % Kac | |
| | % KCl | |
| | % Sand | |
| Pre-wetting techniques utilized | (y/n) | yes |
| Manual control spreaders used | (y/n) | yes |
| Automatic or Zero-velocity spreaders used | (y/n) | no |
| Estimated net reduction in typical year salt application | (lbs. or %) | 25% |
| Salt pile(s) covered in storage shed(s) | (y/n) | yes |
| Storage shed(s) in design or under construction | (y/n) | N/A |
| | | |