

Municipality/Organization: Lexington

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Annual Report Number

& Reporting Period: No. 9 April 1 2011 to March 2012

NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Carl F. Valente

Title: Town Manager


Telephone #: 781-862-0500 X 275

Email: cvalente@lexingtonma.gov

Mailing Address: Town Office Building, 1625 Massachusetts Ave
Lexington, MA 02420

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: Carl F. Valente

Title: Town Manager

Date: 

Part II. Self-Assessment

During this reporting year the Town of Lexington has taken major forward steps in its program for detection and elimination of illicit discharges. These steps include methodical scheduled sampling of streams, analysis of samples and investigation of storm and sanitary sewers.

The Town's Engineering and Conservation Divisions collaborated to pilot a volunteer-based water quality sampling program. The program addressed water quality in general and illicit discharges in particular. Volunteer water quality monitors located and inventoried 18 outfalls, completed follow-up water quality monitoring, and identified one location of high ammonia. Regular sampling at that location is underway and pipe improvements are scheduled for this summer. The Watershed Stewardship program continued to undertake stream surveys, stream cleaning, and public outreach efforts. Storm drain markers were installed throughout the town center to educate people about the direct connect between storm drains and streams. Educational articles, handouts, and posters were distributed to complement this effort.

Steps taken to remove illicit discharges include establishing proper sewer connections for a public restroom facility, repair of deficient sanitary sewers and lining sections of sewer where exfiltration is possible.

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 – Permit Year 10
1A	Classroom Education	Conservation/ E. Schadler	Design and present elementary-school level session explaining stormwater system	May 12, 2011 and September 22, 2011 workshops were offered to elementary students in Lexington. The two workshops were given at Parker Meadow, a local pond in the Shawsheen River Watershed. The workshops covered water quality and its relationships to the stormwater that flows to Parker Meadow.	Continue education efforts by offering educational programs to students or other groups of young people.
1A	Classroom Education	Conservation/ E. Schadler	Design and present elementary-school level session explaining stormwater system	“The Water Cycle” is part of the 3 rd grade curriculum in the Lexington public elementary schools. This is a teachers’ guide developed by Town Conservation and School staff.	Support use of the curriculum and keep it current.
1A	Classroom Education	Engineering/ Engineering / J. Livsey, D. Pavlik and T. Malatesta	Design and present elementary-school level session explaining stormwater system	May 19, 2011 - Presented stormwater demonstration using Enviroscope® to elementary school students during DPW open house. May 23, 2011- Presented stormwater tour and presentation of BMP’s at DPW facility to Brownie Troop 71659.	Present stormwater demonstration to elementary school students at open house. Continue stormwater education during DPW classroom tours of stormwater BMP’s installed at LEED certified facility.

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1A CONT.	Classroom Education	Engineering/ Engineering / J. Livsey, D. Pavlik and T. Malatesta	Design and present elementary-school level session explaining stormwater system	November 15, 2011 - Presented stormwater tour and presentation of BMP's at DPW facility to Municipal group in the Mystic River Water Shed. March 9, 2012 - Presented stormwater tour and presentation of BMP's at DPW facility to Tufts University graduate students and faculty.	Present stormwater demonstration to elementary school students at open house. Continue stormwater education during DPW classroom tours of stormwater BMP's installed at LEED certified facility.
1B	Create and Maintain Stormwater Web Site	Engineering/ Dave Pavlik	Maintained and updated stormwater web page	Posted stream study workshops and ongoing stormwater activities. Received emails from stakeholders pertaining to stormwater.	Continue to maintain and update web page during the year.
1C	Household hazardous waste collection days	DPW/ R. Beaudoin	Published brochure with Recycling and Disposal Guidelines describing hazardous household waste products publishing hazardous waste drop dates and times	Completed 8 drop collection days at DPW Recycling Facility.	Continue program.

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1D	Education Pamphlets	Engineering / D. Pavlik Conservation/ E. Schadler Engineering / J. Livsey	A stormwater information leaflet inserted into water bills. Pamphlets offered at DPW/Engineering Kiosks. Education material distributed during DPW facility tour.	Pamphlets offered at kiosks in Town buildings: <ul style="list-style-type: none"> • EPA – “Protecting Water Quality from Urban Runoff” • Stormwater Matters “Stormwater where does it go?” • Distributed EPA’s handout “Thirstin’s Water Cycle Adventure” during DPW facility tour. 	Place and maintain leaflets in public kiosks. Continue to offer handouts during DPW facility tours and at national public works week DPW open house.
1E	Make use of available media to disseminate information on stormwater	Conservation/ E. Schadler Engineering/ D. Pavlik	Stormwater volunteer stewards and Town staff write and publish stream and watershed articles Town staff generated posters for display in town buildings and postcards for direct mailings.	October 11, 2011 -Article on protecting our local streams was published in Lexington Minuteman newspaper written by watershed steward Carolyn Levi. May 11, 2011 - Article on storm drain markers written by watershed steward Stew Kennedy.	Submit articles to local newspapers to publicize stormwater events and storm drain marker installation. Place posters in public buildings to announce any storm water volunteer events or workshops. Partner with LexMedia (local cable network) for the presentation of “Reining the Storm” on local cable. “Reining the Storm” is an educational DVD detailing the benefits of Low Impact Development

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1E CONT.	Make use of available media to disseminate information on stormwater	Conservation/ E. Schadler Engineering/ D. Pavlik	Stormwater volunteer stewards and Town staff write and publish stream and watershed articles Town staff generated posters for display in town buildings and postcards for direct mailings.	May 12, 2011 - storm drain marker volunteer project posters announcing upcoming project were placed in 3 Town buildings. Three poster boards were also placed on the sidewalks in the Lexington Center. Volunteers asked local business in Lexington center to display poster of the upcoming volunteer event and distribute fliers about storm drainage.	Submit articles to local newspapers to publicize stormwater events and storm drain marker installation. Place posters in public buildings to announce any storm water volunteer events or workshops. Partner with LexMedia (local cable network) for the presentation of “Reining the Storm” on local cable. “Reining the Storm” is an educational DVD detailing the benefits of Low Impact Development.
1F	Newsletter for watershed stewards program	Conservation/ E. Schadler	Publish newsletter biennially.	Fall 2011 newsletter article on storm drain marker project included in Watershed Stewardship newsletter detailing the project, its goals, and the need for more volunteer involvement.	Continue to recruit new volunteers for next phase of storm drain markers with articles in newsletter. Continue to publish articles to stimulate involvement and education.

2 Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
2A	Stream Cleanup Day	Conservation/ E. Schadler Engineering/ D. Pavlik	Clean streams regularly.	Watershed Stewards and Conservation staff were in the streams regularly to clean trash and excessive culvert blockages. Staff and contractors supplemented volunteers. See entries under BMP 6.	Watershed and Land Stewards continually monitor various streams for trash and stream blockage and notify town employees as needed.
Revised 2010	Public Involvement			Stream cleanup is now an on-going activity of Lexington Watershed Stewards. This BMP is being renamed to more accurately describe the scope of activities that include all interested citizens.	
2A CONT.	Public Involvement	Conservation/ E. Schadler Engineering/ D. Pavlik	Maintained and increased watershed directors program. Group of volunteers and town staff that direct and organize watershed events and activities.	Town Conservation and Engineering Staff maintained monthly meetings with Watershed Stewards to plan and organize program activities. Created sub committees and sub groups to handle specific watershed and stormwater management tasks. Two new permanent Watershed Stewards joined group and attended all watershed directors meeting.	Continue Watershed Steward meetings and organize activities through the volunteer directors.

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2A CONT.	Public Involvement	Conservation/ E. Schadler Engineering/ D. Pavlik	<p>Volunteer projects.</p> <ol style="list-style-type: none"> 1) Stream survey of Lexington streams – April 30, 2011. 2) Installation of storm drain markers – May 22, 2011. 3) Volunteer water quality sampling and stormwater outfall inventory pilot program. 	<p>April 30, 2011 – Approximately 70 hours of volunteer time was spent working on stream survey investigating overall stream health. In addition, the volunteers were directed to look for any illicit discharges into streams and brooks. The stream study was conducted in the Kiln Brook watershed, which is located in the Shawsheen River Watershed.</p> <p>May 22, 2011 - Approximately 45 hours of volunteer time was spent on the installation of 85 storm drain markers in the Town's center. A Silver Award Girl Scout project was conducted to locate storm drain marker locations for future installation locations.</p>	<p>A work day of outfall inventory and water quality monitoring is in the planning stages for late spring 2012.</p> <p>The second phase of the volunteer storm drain marker installation is being planned for summer of 2012.</p>

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2A CONT.	Public Involvement	Conservation/ E. Schadler Engineering/ D. Pavlik	<p>Volunteer projects.</p> <ol style="list-style-type: none"> 1) Steam survey of Lexington streams – April 30, 2011. 2) Installation of storm drain markers – May 22, 2011. 3) Volunteer water quality sampling and stormwater outfall inventory pilot program. 	<p>November 9, 2011- Volunteer outfall inventory and water quality monitoring pilot program was piloted. The program started with a volunteer workshop and field training class. The workshop was presented by Town staff demonstrating water quality sampling and outfall inventory techniques. A volunteer field guide was prepared and presented for the volunteers to use. After the training was completed, the volunteer teams worked for several weeks on outfall inventories and weekly outfall water quality sampling. This is an on going project that is integrated with our IDDE program.</p>	<p>Expand volunteer outfall inventory and water quality sampling program using IDDE in measure 3 of permit to select project locations.</p>

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2B	Public Involvement	Conservation/ E. Schadler	Volunteers wrote and publish articles on stormwater and Lexington streams.	September 2011- Two articles were written by Lexington Conservation Stewards that were presented in the Lexington Conservation news letter. One article written by a volunteer titled “Protecting our Local Steams” was published in the local newspaper the Lexington Minuteman. Handouts and posters were distributed by volunteers during stormwater marking installation work day.	Town to continue work with volunteers on providing information on local stream habitats and Town’s storm water collection systems.
2B	Water quality monitoring Old Res	Recreation Dept/ Karen Simmons	Sample and analyze drain outlets into Old Res Recreation Area.	In summer the Old Res is a public swimming pond. This water body is tested weekly in season for bacteria by the Recreation Department.	Continue sampling and reporting.
2C	Stream Neighbor Notices	Conservation/ E. Schadler Engineering/ D. Pavlik	Inform outfall abutters of water quality and outfall inventory program.	Volunteers communicate with abutters during outfall inventory and water quality sampling. A letter from the Engineering division is part of the volunteer package that is presented to abutters. This letter details the objective and purpose of the work.	Continue to communicate with stream abutters about water quality and outfall inventory efforts when.
2D	Septic Systems Tracking Management	Health Dept/ K. Fox	Transfer data to electronic media, maintain and upgrade data	Maintained database and created GIS layer to record locations.	Maintain the database.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
3A	Locate and map outfalls	Engineering/ D. Pavlik	Maintain data base for GIS mapping of Town's outfalls. Created GIS	<p>July 2011 - Completed GIS labeling of all know outfalls. Created GIS sub watersheds and sub catchment area using GIS contour elevations and GIS drainage maps in the Shawsheen River Watershed.</p> <p>June 2011 to December 2011- Worked with consulting scientists to inspect outfalls located in Shawsheen River watershed.</p> <p>September 2011 -Town staff and volunteers began inspecting, sampling and logging data on stormwater outfalls.</p>	<p>Consultant is currently preparing GIS mapping of sub catchments town wide.</p> <p>Integrate information from consultant's GIS data on outfalls in Shawsheen River Watershed.</p> <p>Continue outfall inventory sampling with Town staff and volunteer program.</p>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
3B	DPW Employee Education	Engineering/ D. Pavlik	Education of Town staff on development of Illicit Discharge Detection and Elimination program. Obtained information education guidance manual.	<p>April 27, 2011 - Town Engineering staff attended General Stormwater Permit and Low Impact Development Training Clinic given by US EPA Region 1.</p> <p>July 20, 2011 - Town Engineering staff attended Mystic River Watershed Municipal Subcommittee meeting.</p> <p>September 22, 2011 - Town Engineering staff attended Mystic River Watershed Municipal Subcommittee meeting.</p> <p>Town staff received and reviewed EPA's NPDES emails during the permit year.</p>	Utilize and distribute EPA's NPDES email and other communication. Continue to meet with local watershed associations and attend EPA trainings.
3C	Stormwater Bylaw	Conservation/ K. Mullins Engineering/ J. Livsey	Implement stormwater bylaw.	Bylaw was passed by Town Meeting in 2008. Bylaw prohibits non-stormwater discharges and pollutants into the MS4 or watercourses in the town and it includes enforcement methods.	Work with Town staff and user groups to continue administration of the bylaw.
3D	Illicit Discharge Recording System	Engineering/ M. Flamang	Record known points of illicit discharge	Maintain data base of points of illicit discharge and sample locations used to investigate.	Maintain the database and add points of discharge, sample locations and sample results.

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3E	Locate and remediate potential sources of pollution	Engineering/ J Livsey	Direct the work of staff and engineering consultants to repair sanitary sewers.	Weston and Sampson Engineers has been working continuously since 2009 at a high level to clean, survey and repair sewers to stop exfiltration and prevent overflows of sewage into streams. This work has located areas of probable illicit discharges.	Continue work on program of comprehensive sanitary sewer repair and renewal.
	Locate and remediate potential sources of pollution	Engineering/ M. Flamang	Locate and remove illicit connections to storm drains for approximately 10% of town.	Began construction to improve town drainage in one neighborhood with excessive basement water problems. Survey of approximately 20% of town is complete.	Continue work on program of sanitary sewer repair and sump pump disconnection.
3E CONT.	Locate and remediate potential sources of pollution	Engineering/ M. Flamang D. Pavlik	Line aging sanitary sewers to prevent exfiltration of sewage into sewer underdrains that flow to streams.	Awarded contract for repair and lining of sewers in Vine Brook vicinity.	Complete repairs and lining. Carefully inspect during construction to assure that drains are carrying only stormwater.
3E CONT.	Locate and remediate potential sources of pollution	Engineering/ M. Flamang D. Pavlik	Replace aging wastewater system at Town's public bathroom at Center Recreation Fields to eliminate potential for exfiltration to Vine Brook.	Completed installation of sanitary sewer and plugged one overflow into drainage culvert.	Complete. No further action required.

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3E CONT.	Locate and remediate potential sources of pollution	Engineering/ M. Flamang and D. Pavlik	Purchased water quality testing equipment for IDDE sampling. Contracted with environmental services company to provide laboratory testing on as needed schedule. Initiated volunteer water quality monitoring pilot program. Created a “how to guide” for watershed steward volunteers to use in field for sampling and outfall inventory.	<p>March 21, 2011 – Received cost estimate for laboratory testing from environmental services company for water quality analysis.</p> <p>August 16, 2011 – Town purchased SMART 3 colorimeter for water quality testing.</p> <p>September 21, 2011 – Water quality sampling of known hot spot were started. Town staff tests for ammonia concentration, chlorine concentrations, and surfactants concentrations of water samples. In addition, grab samples were taken for laboratory testing for fecal coliform and <i>E. Coli</i> concentrations. Sampling is completed approximately once per week.</p> <p>October 13, 2011 – Town engineering division purchased Hatch Ammonia field kit for testing. Town staff from Engineering and Conservation Divisions compiled “How to Guide” for volunteer water sampling program.</p> <p>November 9, 2011 – Town staff from Engineering and Conservation Divisions presented field work training and water quality sampling workshop for watershed volunteers.</p>	<p>Manage volunteer and staff effort to expand stream and outfall sampling.</p> <p>Expand sample data base to focus investigations on sources of pollution.</p> <p>Remediate sources when found.</p>

3E CONT.	Locate and remediate potential sources of pollution	Engineering/ M. Flamang and D. Pavlik	Purchased water quality testing equipment for IDDE sampling. Contracted with environmental services company to provide laboratory testing on as needed schedule. Initiated volunteer water quality monitoring pilot program. Created a "how to guide" for watershed steward volunteers to use in field for sampling and outfall inventory.	November 28, 2011 – Volunteer water quality sampling and outfall inventory program began. Program consists of two teams of volunteers sampling outfalls for ammonia concentrations and chlorine concentrations. Currently the two groups are sampling the same outfall locations for on a weekly basis.	Manage volunteer and staff effort to expand stream and outfall sampling. Expand sample data base to focus investigations on sources of pollution. Remediate sources when found.
3E	Locate and remediate potential sources of pollution	Engineering/ J Livsey and Recreation/ K.Simmons	Improve stormwater system in vicinity of Old Res to reduce wet weather contamination.	Completed study of alternatives for treatment of stormwater runoff into Old Res facility. Finalized selection and design of BMP. Town Meeting has approved funding for completion of design and construction. Completed TV inspection of sewers in this streamshed to look for illicit discharges. Corrected deficiencies found in sewers in this area.	Secure permits and proceed with construction of stormwater treatment for street runoff and other pollution at Old Res.
3F.	Illicit Discharge Detection and Elimination	Engineering/ J. Livsey, M. Flamang and D. Pavlik.	Completion of IDDE plan.	November 7, 2011 – Town of Lexington IDDE plan completed and submitted to EPA.	Work according to the IDDE plan for the year.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
4A	Runoff Control	Conservation/ K. Mullins Engineering/ J. Livsey	Implement stormwater bylaw	Working with town staff and public to implement the bylaw. The bylaw prohibits non-stormwater discharges and pollutants into the MS4 or watercourses in the town and it includes enforcement methods.	Work with town staff and user groups to implement the bylaw.
4A	Runoff Control	Engineering/ J Livsey	Implement stormwater bylaw	Consolidated DPW inspection administration in Engineering Division to insure that all sites are inspected	Manage inspection program to assure complete coverage.
4A	Runoff Control	DPW/M Valenti	Issue notices for construction runoff remediation	Highway superintendent and staff have increased monitoring of construction sites and are issuing notices	Continue to monitor and issue notices.
4B	Inspection Staff Training	Building/ G. Rhodes Engineering/ J Livsey	Train inspection staff to look for and respond to risky construction site practices	Held joint meetings with engineering, public works and building inspection staff to improve communication between departments with respect to construction site runoff	Continue to hold joint meetings to improve interdepartmental communication.
4B CONT.	Inspection Staff Training	Building/ G. Rhodes Engineering/ J Livsey	Train inspection staff to look for and respond to risky construction site practices	Inspection staff of community development and engineering departments has been trained and look for construction site erosion.	Update and deliver training to reflect complete stormwater bylaw and regulations.
4C	Inspection and reporting	Engineering/ M. Flamang Conservation/ K. Mullins	Design and distribute handout for permits	During this year, the town staff consistently referred contractors to the EPA construction permit program. Engineering permits have been annotated to require as-builts of privately owned treatment facilities.	Continue to refer applicants for Building Permits to EPA permit program

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
5A	Inventory Construction Violations	Engineering/ J Livsey	Inspect all construction sites and record findings	Improved communication with Building Department. Inspected construction projects and shared information with Streets Superintendent and Building Commissioner.	Continue to share information on construction sites with other departments.
5B	Develop BMP's list	Engineering/ M. Flamang	Develop list of BMP's that are appropriate for Lexington public and private projects	Used MA Stormwater Handbook for review of plans and permit applications.	Utilize MA Stormwater Handbook.
5C	Post Construction Runoff Control	DPW/M Valenti	Issue notices verbal and in writing for runoff remediation.	Highway superintendent and staff have increased monitoring of sites where construction is complete and are issuing notices	Continue to monitor and issue notices
5D	Runoff Operation and Maintenance Plan	Conservation/ K. Mullins Engineering/ M. Flamang	Require in-house reviewers to screen permit applications for O&M plans	Staff screens permit applications for O&M plans.	Continue to require O&M Plans

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
6A	Employee training	Public Works/ D. Pavlik & D. Pinsonneault	Employee training for stormwater pollution prevention.	<p>June 3, 2011 - Town Engineer attended Region 1 MS4 General Permits and LID training clinic.</p> <p>September 30, 2011 – Town Engineer attended riverbank stabilization techniques workshop.</p> <p>October 27, 2011 – DPW Director, Town Engineer and staff engineer attended Massachusetts Stormwater Management Training Seminar on Funding Stormwater Management.</p> <p>Fall 2011 – Hazmat training was offered at DPW facility to employees.</p> <p>Fall 2011 – Highway equipment operators and management staff participated in training of sanding equipment calibration.</p>	Continue program.
6B	Municipal pollution prevention	Public Works/ D. Pinsonneault	Street sweeping and catch basin cleaning.	<p>All town roads were swept at least twice during the year. The center business district is swept three times per week.</p> <p>All town-owned catch basins were cleaned once during the year with a clam shell truck. A Vactor @ truck was used in addition on catch basins that required heavy cleaning.</p>	Continue program

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6C	Vehicle washing	Public Works/ D. Pinsonneault	Wash indoors to keep solids from stream	Continued DPW vehicle washing program. All vehicles are washed indoors in a facility that recycles wash water.	Continue program
6D	Used oil recycling	Public Works Operations/ D. Pinsonneault Public Works Solid Waste/ R.Beaudoin	Collect used oil at PW maintenance garage and make used oil recycling available at Town Recycling facility.	Contracted for maintenance garage recycling and offered household waste recycling townwide eight times per year.	Continue program
6E	Stream Cleaning	Public Works Operations/ M. Valenti	Remove debris from stream channel and banks.	February & March 2012 - Work crews removed debris from the main channels of the North and South branches of the Vine Brook, over a 20 day period. Contracted for maintenance garage recycling and offered household waste recycling townwide eight times per year.	Continue program.

7. Best Management Practices for Meeting total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

7A	Pet Waste Pollution Prevention	Conservation/ E Schadler Town Clerk/ D Hooper	Inform the public on the impact of pet waste on the environment	Distributed leaflet to dog owners when owners purchased dog license. Leaflet seeks to inform owners of the effects of improper waste disposal.	Continue program
7A Cont.	Pet Waste Pollution Prevention	Conservation/ E Schadler Town Clerk/ D Hooper	Engage the public to participate in proper disposal of pet waste	Created a "Lexington Green Paw" program. Informs dog owners of proper waste disposal methods and issues a stylish Green Paw tag to dogs when owner commits to dispose of waste properly.	Continue program
7B	Locate and remediate potential sources of pollution	Engineering/ M. Flamang D. Pavlik	Line aging sanitary sewers to prevent exfiltration of sewage into sewer underdrains that flow to streams.	Initiated design of repair and lining project for Vine Brook vicinity.	Complete design and procure construction contractor to complete the repairs.
7B	Stream Restoration	Engineering and Conservation/ J. Livsey and K. Mullins	Develop and Implement a Program of Waterway Maintenance and Restoration	Town has funded for a Stream Restoration Program which includes a study, permitting and program execution.	The effort this year will be to quantify the length and numbers of streams needing restoration and to develop scope for contractors to implement restoration in compliance with applicable regulations.

Part IV. Summary of Information Collected and Analyzed

In response to guidance received from EPA Region I, sampling efforts concentrated on the Vine Brook drainage area. Within the drainage area, seven sub-catchments were investigated and results were submitted to EPA. Sampling was done from September through March of the reporting period. Samples were analyzed for fecal coliform and other indicators. Site investigations and lab data indicate two areas of concentrated polluted inflow in the culverted section of Vine Brook. The first response for elimination of that source is the lining of aging sanitary sewers on critical streets in that area. That work will be done this year. Outside of the problem areas, sampling results seem to be consistently below action levels.