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April 27, 2005

United States Environmental Protection Agency  
Water Technical Unit  
P.O. Box 8127  
Boston, Massachusetts 02114

Subject: NPDES Phase II Small MS4 General Permit (MA041027)  
Annual Report  
Arlington, Massachusetts

To Whom It May Concern:

In accordance with the provisions of the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s), please find enclosed the 2004 Annual Report summarizing the status of Arlington's Stormwater Management Program. As required by the NPDES General Permit, a copy of this report has also been submitted to the Massachusetts Department of Environmental Protection, the co-permitting authority for the state of Massachusetts.

Please do not hesitate to contact me with any questions or comments regarding this submission.

Very truly yours,

FAY, SPOFFORD & THORNDIKE, LLC.

By

Dianne E. Velardocchia, PE  
Senior Engineer

Enclosures: NPDES PII Small MS4 General Permit  
Annual Report

Cc: Don McCabe, Jr. (for municipal dist.)  
Assistant Director of Public Works  
Arlington, MA

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**Municipality/Organization:** Arlington, Massachusetts

**EPA NPDES Permit Number:** MA041027

**MaDEP Transmittal Number:** W-040959

**Annual Report Number  
& Reporting Period:** No. 2: May 04-May 05

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Don McCabe, Jr.                      **Title:** Assistant Director of Public Works

**Telephone #:** 781-316-3300                      **Email:** dmccabe@town.arlington.ma.us

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:** *Brian F. Sullivan*

**Printed Name:** Brian Sullivan

**Title:** Town Manager

**Date:** 4/28/05

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

The Town of Arlington has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

**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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1-1	Place Educational Information on the Town's Website	Department of Public Works, Town Webmaster	<p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Post stormwater related information on the Town Hall website.</li> <li>➤ Update website regularly.</li> </ul>	<p>The final Stormwater Management Program (SWMP) was posted on website. Other stormwater related information was posted on Town Hall website.</p>	<p>The Town will continue posting stormwater related information on Town Hall website, including the SWMP Annual Report.</p>
1-2	Conduct Household Hazardous Waste Collection Days	Department of Public Works, Arlington Recycling Committee	<p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Sponsor 8 household hazardous waste collection days/yr.</li> <li>➤ Develop the <u>Arlington Recycling Program</u> brochure and distribute to all Arlington residents via a mass mailing on an annual basis.</li> <li>➤ Track the number and type of informational brochures collected by Arlington residents at the DPW and at the booth at Arlington Town Day.</li> <li>➤ Send 8 press releases advertising the event to the <i>Arlington Advocate</i> and track whether they were published.</li> <li>➤ Advertise the events on the Town's website.</li> </ul>	<p>The DPW sponsored 8 household hazardous waste collection days at the Minutemen Hazardous Product Facility in Lexington, MA. The events were advertised in the <i>Arlington Advocate</i> and on the Town's website. A brochure on Arlington's recycling program was distributed to new residents. The DPW hosted a booth at Arlington Town Day.</p>	<p>The DPW will continue to sponsor 8 household hazardous waste collection days annually and advertise these events in the <i>Arlington Advocate</i> and on the Town's website. The DPW will continue to host a booth at Arlington Town Day. The DPW will continue distributing a brochure on Arlington's recycling program to residents.</p>
1-3	Intensify the Existing Pet Waste and Waterfowl Management Campaign	Board of Health, Animal Control Officer	<p><b>Spring '04/'05/'06/'07</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of brochures distributed.</li> <li>➤ Track the number of violations issued annually.</li> <li>➤ Develop an informational press release on pet waste and waterfowl management for the <i>Arlington Advocate</i> and track whether it was published.</li> </ul>	<p>The brochure was not distributed during Permit Year 2.</p>	<p>The Town will distribute brochures and develop an informational press release on pet waste and waterfowl management for the <i>Arlington Advocate</i>. The Town will track number of violations.</p>
1-4	Place Educational Information on Arlington Cable Television	Department of Public Works, Arlington Cable Television	<p><b>Fall '04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Obtain "Oil Leak" and "Fertilizer" PSAs from the Washington State Department of Ecology Water Quality Consortium.</li> <li>➤ Track how frequently the PSAs are broadcast on ACTV.</li> </ul>	<p>PSA's were not obtained during Permit Year 2.</p>	<p>The DPW will obtain the PSA's and broadcast on ACTV.</p>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1-5	Promote Water Conservation Practices for Homeowners	Department of Public Works	<p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Post water conservation posters at Town Hall and the public libraries.</li> <li>➤ Include water conservation bill inserts with the water bill.</li> <li>➤ Issue an annual press release to the <i>Arlington Advocate</i> to promote water conservation.</li> </ul>	Posters were hung in the Town Hall and public libraries. Educational displays on water conservation were also posted at the libraries. Rain barrels were sold to residents. Tips for water conservation were included in the water bill. Water conservation was promoted in the <i>Arlington Advocate</i> .	The DPW will continue posting water conservation posters at Town Hall and public libraries and including water conservation tips with the water bill. The DPW will issue an annual press release to the <i>Arlington Advocate</i> to promote water conservation. At DPW Day, brochures on water conservation will be distributed and dye tablets for toilets will be made available to residents.
1-6	Develop a Press Release and Flyer Targeting Community Businesses	Department of Public Works, Town Webmaster	<p><b>Fall '05/'07</b></p> <ul style="list-style-type: none"> <li>➤ Submit the press release to the <i>Arlington Advocate</i> and track whether it was published.</li> <li>➤ Submit copies of the informational flyers to the Arlington Chamber of Commerce and track whether it was included in the newsletter.</li> <li>➤ Post the informational flyer on the Town's website.</li> </ul>	No activities were planned for Permit Year 2.	The DPW will develop an educational stormwater press release targeting businesses in community for submission to <i>Arlington Advocate</i> . The press release will be converted to a flyer that will be posted on Town's website and will be given to ACC for inclusion in the bimonthly newsletter.

### 1a. Additions

No additions to report at this time.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2-1	Public Access to SWMP and Receipt of Comments	Department of Public Works, Town Webmaster	<p><b>Winter '03/04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Make draft SWMP available to the public for the review and comment period.</li> <li>➤ Finalize SWMP.</li> <li>➤ Make the final SWMP accessible to the public via the Town's public libraries and website.</li> </ul> <p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Develop fertilizer flyer and track the number of volunteers involved in its distribution.</li> <li>➤ Develop door hanger and track the number of volunteers involved in its distribution.</li> <li>➤ Sponsor ecological gardening classes and track the number of participants.</li> <li>➤ Post Spy Pond-related information on the Spy Pond website and update website regularly.</li> <li>➤ Host booths at Arlington Town Day</li> </ul>	<p>Comments on the draft SWMP were received and reviewed. The SWMP was finalized as appropriate and is available at the Town's public libraries and website, as well as the DPW office at Town Hall.</p> <p>Fertilizer flyers were developed and distributed. Ecological gardening classes were sponsored. Spy Pond-related information was posted on Spy Pond website. There were booths at Arlington Town Day.</p>	<p>The DPW will continue to make the final SWMP available to the public via the Town's public libraries and website, as well as the DPW office at Town Hall and the DPW operations center.</p> <p>Educational outreach will continue by distributing fertilizer flyers and hosting booths at Arlington Town Day. Spy Pond-related information will continue to be posted on the Spy Pond website.</p>
2-2	Educational Outreach for Spy Pond	Spy Pond Committee, Friends of Spy Pond Park, Planning and Community Development Department	<p><b>Spring '03/04/'05/'06/'07</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of cleanup volunteers and supporting businesses.</li> <li>➤ Track the quantity and types of waste collected as a result of the cleanup event.</li> </ul>	<p>A clean-up at Spy Pond did not take place during Permit Year 2 because of a lack of volunteers.</p>	<p>A clean-up of Spy Pond is planned for May 14 –15, 2005 along the south side of the pond. As part of this effort, volunteers will repair eroded areas and place riprap along the shoreline to prevent future erosion.</p>
2-3	Sponsor Annual Cleanup at Spy Pond	Spy Pond Committee, Friends of Spy Pond Park, Department of Public Works, Planning and Community Development Dept.	<p><b>Spring '05</b></p> <ul style="list-style-type: none"> <li>➤ Identify areas where marking will take place and establish schedule for the activity.</li> <li>➤ Track the number of storm drains marked each year.</li> <li>➤ Track the number of volunteers assisting in the marking activity.</li> <li>➤ Provide maintenance to previously installed markers as necessary.</li> <li>➤ Publicize storm drain marking event(s) via a press release to the <i>Arlington Advocate</i>.</li> </ul>	<p>Storm drain marking was planned for end of Permit Year 2/beginning of Permit Year 3. No storm drain marking activities took place during Permit Year 2.</p>	<p>As part of a 319 Federal Grant, Arlington and Belmont will jointly mark storm drains to Spy Pond during Permit Year 3. The storm drain marking event will be publicized via a press release to the <i>Arlington Advocate</i>.</p>
2-4	Sponsor Storm Drain Marking Activities at Spy Pond	Spy Pond Committee, Planning and Community Development Department			

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2-5	Sponsor Annual Clean-up at Arlington Reservoir	Arlington Reservoir Committee, Department of Public Works	<p><b>Spring '03/'04/'05/'06/'07</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of cleanup volunteers and supporting businesses.</li> <li>➤ Track the quantity and types of waste collected as a result of the cleanup event.</li> </ul>	A clean-up of Arlington Reservoir was conducted.	A clean-up of Arlington Reservoir will not occur during Permit Year 3 because it is currently under construction. Part of the proposed work includes wetland replication.
2-6	Conservation Land Stewards	Arlington Conservation Commission	<p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of Land Steward volunteers.</li> <li>➤ Maintain records of major activities, such as clean-ups, at individual sites.</li> <li>➤ Develop an informational press release on the Land Steward Program for the <i>Arlington Advocate</i> and track whether it was published.</li> <li>➤ Develop an informational brochure on the Land Steward Program and track the number of brochures collected by residents.</li> </ul>	During Permit Year 2, Turkey Hill and Meadowbrook Park had clean ups, trail work and invasive species removal. Also, related to this topic, invasive plants were removed along the Minuteman bikepath by Green Streets, a group organized by Rep. Marzilli. The database of volunteers was updated to include new members. A draft supplemental handbook for invasive species was composed. The Stewardship Manual is available on the Town's website.	The annual meeting will be held on April 26, 2005. This meeting, which was advertised in the <i>Arlington Advocate</i> , will include new areas to adopt, a speaker on tree phenology, and formation of a committee to reissue the <i>Walking the Open Spaces of Arlington</i> book. A trail project and cleanup is currently underway at the Window on the Mystic. Also during Permit Year 3, the Conservation Land Stewards plan to have a Town Day booth and continue to coordinate stewards to inspect and cleanup sites through town.
2-7	A-B-C Stormwater Flooding Board to Address Issues in the Little River and Alewife Brook Areas	Board of Selectmen, Town Webmaster	<p><b>Spring '04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Execute the Environmental Joint Powers Agreement.</li> <li>➤ A-B-C Stormwater Flooding Board to meet throughout the permit term.</li> <li>➤ Information and status of Board's activities to be reported on Town website and in the <i>Arlington Advocate</i>.</li> </ul>	The Joint Powers Agreement was signed by Arlington, Belmont and Cambridge and has been sent to the state for ratification. The board drafted a report on flooding of Alewife Brook, which is posted on Belmont's website, with a link from Arlington's website. There was coordination with state (MWRA, DCR, MEMA) and federal (FEMA) agencies in order to further recommendations for flood storage solutions and to optimize the functions of pumps at the Amelia Earhardt Dam and the pump station at the confluence of Alewife Brook and Mystic River.	State to ratify the JPA. The Board will formalize recommendations for a monitoring system to be installed on the Alewife Brook, such as the number and locations of gauges and meters, costs, and allocations to each town. Information regarding the Board's activities to be posted on the Town's website and in the <i>Arlington Advocate</i> .

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2-8	Conduct Lawn Care/Landscaping Survey in Spy Pond Watershed	Spy Pond Committee, Planning and Community Development Department	<p>Summer '05/'06</p> <ul style="list-style-type: none"> <li>➤ Develop and distribute survey.</li> <li>➤ Send a press release explaining the lawn care/landscaping survey to the <i>Arlington Advocate</i>.</li> <li>➤ Track the number of completed surveys.</li> <li>➤ Compile surveys to develop future educational outreach materials.</li> </ul>	No activities were planned for Permit Year 2.	Under a 319 Federal Grant, this survey will be done jointly with Belmont.

### 2a. Additions

No additions to report at this time.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3-1	Maintain Outfall Location Map	Department of Public Works	<p><b>Spring '03 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Update the outfall location map if there are any changes to the stormwater drainage system during the permit term.</li> </ul>	Updated the outfall location map as required.	Update the outfall location map as required.
3-2	Revision of Existing General and Zoning Bylaws	Planning and Community Development Department, Arlington Conservation Commission, Engineering Division of the Department of Public Works	<p><b>Spring '04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Review Town's existing General and Zoning Bylaws.</li> <li>➤ Draft revised bylaws so that they fulfill the regulatory requirements of NPDES Phase II Minimum Control Measures 3, 4, and 5.</li> <li>➤ Have revised bylaws available for public comment to gauge public acceptance and revise as necessary.</li> <li>➤ Present revised bylaws to Town Meeting for adoption.</li> <li>➤ Post revised bylaws on Town's website.</li> </ul>	Planning and Community Development Department reviewed the Zoning Bylaws, particularly the Environmental Design Review (EDR) standards. A warrant article for 2005 Town Meeting was developed. The article would revise EDR standards to require stormwater BMPs to be applied on-site for new development projects.	The proposed warrant article will be presented at 2005 Town Meeting and if it passes, enforcement of it will begin. In addition, the Planning and Community Development Department will meet with the Conservation Commission and Engineering to develop stormwater-related warrant articles for 2006 Town Meeting.
3-3	Implement an Illicit Discharge Detection and Elimination Plan	Department of Public Works	<p><b>Winter '04/05 – Winter '07/08</b> <b>Revise Date to Spring '05 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Develop an Illicit Discharge Detection and Elimination Plan.</li> <li>➤ Conduct dry-weather field screening of outfalls and track the number of surveys indicating a possible illicit connection.</li> <li>➤ Trace the source of potential illicit discharges.</li> <li>➤ Track the number of illicit connections found.</li> <li>➤ Track the number of illicit connections repaired/replaced.</li> <li>➤ Report on the success of obtaining alternative funding to assist in illicit connection removal.</li> </ul> <p>Implementation schedule revised as shown above.</p>	No activities were performed on this BMP during Permit Year 2.	The existing Illicit Discharge Detection and Elimination Plan will be reviewed and modified as required to be consistent with the NPDES Phase II regulations.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3-4	Rehabilitate and Replace Sanitary Sewer Pipes	Department of Public Works	<p><b>Spring '03 – Fall '05</b></p> <ul style="list-style-type: none"> <li>➤ Rehabilitation/replacement of sanitary sewer pipes exfiltrating wastewater.</li> <li>➤ Maintain documentation of construction activities and re-sampling.</li> </ul>	As part of the redevelopment of the former Symmes Hospital site, the developer conducted a survey of I/I along Hemlock Street, Landsdowne Road, and Dickson Avenue. Near Arlington High School, the sewer mains parallel to Mill Brook were relined and manholes were rehabilitated to eliminate I/I.	Sewer pipes in Landsdowne Road, Hemlock Street, and Pine Street will be rehabilitated. The developer of the Symmes Hospital will perform I/I removal activities based on the results of last year's survey. The State plans to re-line two MWRAs sewer mains (20-inch and 36-inch diameter) along Mill Brook from Lexington town line to Grove Street. In addition, 225 feet of sewer pipe will be replaced along the frontage road to Route 2.

### 3a. Additions

3-5	Replacement and Maintenance of Mill Brook Culvert	Department of Public Works	<p><b>Summer '05 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Replace Mill Brook Culvert near Grove Street.</li> <li>➤ Maintain culvert as required.</li> </ul>	The Mill Brook Culvert was replaced from the Arlington Town Yard (at Grove Street) to the parking lot at Arlington High School (approx. within 200 ft of Mill Brook Drive).	The existing section of the culvert will be maintained and repaired as necessary.
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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 2 (Reliance on non-municipal partners indicated, if any) See Section 3: Illicit Discharge Detection and Elimination	Planned Activities – Permit Year 3
3-2	Revision of Existing General and Zoning Bylaws				
4-1	Develop a Site Inspection Form and Conduct Site Inspections	Department of Public Works (Engineering Section)	<p><b>Spring '05 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Develop an ESC Site Inspection Form.</li> <li>➤ Track the frequency of inspections conducted for each site.</li> <li>➤ Track the completion of inspection forms.</li> <li>➤ Track the number of failed ESC BMPs discovered on each site.</li> </ul> <p>An ESC Site Inspection Form will not be developed. If passed during Town Meeting 2005, revisions to Environmental Design Review Standards (see BMP 3-2) will require developers to show ESC best management practices on proposed plans. Consequently, inspections of ESC BMPs will be part of the routine inspections that are performed by the Building Inspector and/or Engineering Department during construction.</p> <p><b>Fall '05 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Establish the Citizen Tip Line.</li> <li>➤ Advertise the Citizen Tip Line.</li> <li>➤ Track the number of complaints received via the Citizen Tip Line.</li> <li>➤ Track the problems/incidents remedied as a result of the Citizen Tip Line.</li> </ul>	No activities were planned for Permit Year 2.	Site inspections of ESC best management practices at construction sites will be performed for projects that fall under the Environmental Design Review Standards. Records of these inspections will be maintained.
Revised					
4-2	Develop and Implement a Citizen Tip Line	Department of Public Works, Town Webmaster		No activities were planned for Permit Year 2.	The Town currently has a software program, Trackwise, to receive and route calls from citizens. The program will be modified to accept calls regarding stormwater issues.

#### 4a. Additions

No additions to report at this time.

### 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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3-2	Revision of Existing General and Zoning Bylaws			See Section 3: Illicit Discharge Detection and Elimination	
5-1	Arlington Redevelopment Board Stormwater Design Guidelines	Planning and Community Development Department Arlington Redevelopment Board	<p><b>Spring '04</b></p> <ul style="list-style-type: none"> <li>➤ Obtain approval of the handbook by the Arlington Redevelopment Board.</li> <li>➤ Track the distribution of handbook to developers.</li> </ul> <p>The Town is currently re-evaluating the need for this BMP in light of the proposed changes to Environmental Design Review Standards (Sec BMP 3-2) and possible future stormwater management related warrant articles. The Town believes that developers and their consultants should be familiar with stormwater BMPs and not require a handbook from the Town.</p>	No activities were performed on this BMP during Permit Year 2.	No activities are planned for Permit Year 3.
Revised					

#### 5a. Additions

No additions to report at this time.

