

Municipality/Organization: Town of Andover

EPA NPDES Permit Number: MAR041178

MaDEP Transmittal Number: W-041021

Annual Report Number

& Reporting Period: No. 7: May 1, 2009-April 30, 2010

5/7/10
P

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Reginald Stapczynski

Title: Town Manager

Telephone #: (978) 623-8225

Email: rstapczynski@andoverma.gov

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:

Reginald S. Stapczynski

Printed Name: Reginald Stapczynski

Title: Town Manager

Date:

April 30, 2010

Part II. Self-Assessment

The Town of Andover has completed the required self-assessment of the annual compliance review for the Phase II Stormwater Program. In accordance with the NPDES Phase II Stormwater requirements, the following topics were evaluated for the completion of the Annual Report:

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program's Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

The Town 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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
1A	Develop Stormwater Section of Town Website	Dept. of Public Works/Engineering Dept., Water Dept, and Town Website Manager(s)	Measure number of hits over permit term.	The stormwater section of the Town's website was changed to keep information up to date. Information on stormwater management and illicit discharges was provided, as well as links to a number of stormwater websites. There were 2,950 visitors to the stormwater section this period.	Continue to track website hits and update with pertinent information and links.
Revised					
1B	Distribute Brochures and Fact Sheets to Businesses and Residents	Department of Public Works/Engineering Dept., and Water Dept.	Number of articles and copies of materials.	A section on Stormwater Management was published in the "Recycling and Trash Collection Guide for Residents", which was made available to the public on the Town website and for pickup (400 copies) at various public buildings beginning in June 2009. In lieu of mail distribution, two newsletters created by EPA entitled "The Solution to Stormwater Pollution!" and "After the Storm" were posted on the website and made available at various public buildings. Newsletters provide information on stormwater and other pollution prevention measures. The Town participated as a sponsor of the 2009 Greenscapes program and provided the 2009-2010 Yard Care Calendar to all residents. 3 community presentations entitled "Spring is Time for Greenscaping" were given at Memorial Hall Library in May 2009.	Continue mailings as in years past to residents and businesses. Hold the Town Greenscapes program in May 2010 to distribute Greenscapes 2009-10 Yard Care Calendars and distribute additional information. Continue to hold the "Spring is Time for Greenscaping" presentation in May. Use information from brochures and fact sheets to develop additional articles. Direct the public to the Stormwater Management section of the Town website.
Revised					

1C	Submit Advertisements/Articles on Stormwater Protection for Local Newspaper	Department of Public Works/Engineering Dept., and Water Dept.	Clippings of articles and advertisements printed in local newspaper.	Press releases were provided to the Eagle Tribune and Andover Townsmen to publicize the program in April 2010 entitled "Keep Your Yard Green and Healthy", and "Andover Brings Greenscapes Program to Residents" as outlined in BMP 1B in April 2010. An article discussing an Eagle Scout project to install stormdrain markers along 500 catch basins was published on August 27, 2009 in the Andover Townsman.	Continue to inform residents of upcoming activities in conjunction with Minimum Measures 1 and 2 by publishing articles in the newspaper. Continue to issue press releases and articles in the Andover Townsman and Eagle Tribune to publicize the Greenscapes program and other town programs as they become available.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2A	Establish a Pesticide Reduction Task Force (PRTF)	Committee of Town Staff, League of Women Voters, and Residents	Copies of mailers, meeting minutes, list of attendees.	The Pesticide Reduction Task Force was joined with the Fish Brook Initiative, which is now known as the Fish Brook Watershed Advisory Committee (FBWAC). The Pesticide Use Policy is in effect and continues to be posted on the town website.	Continue holding meetings and workshops. Continue to encourage residents and business owners to attend. Explore ways to improve advertising and attendance.
Revised					
2B	Establish a Stormwater Telephone Hotline	Department of Public Works/Engineering Dept., Water Dept., and Town Website Manager(s)	Record number of phone calls to hotline, copies of articles.	19 calls were received and logged as part of the Stormwater Telephone Hotline as outlined in BMP 4B, set up through the DPW Engineering Division and advertised on the Town website. The bulk of calls pertained to flooding and excess runoff complaints. Appropriate actions were taken and documented in the complaint log as part of the process. The log also includes investigation findings, actions taken, and follow-up actions.	Continue to receive complaints and take corrective actions based on calls to the Stormwater Telephone Hotline. Continue to document the complaint in the log including investigation findings, actions taken, and follow-up actions.
Revised	Establish a Procedure to Receive Calls		Record number of calls to each Department		
2C	Establish Classroom Education/Field Trip Program	Department of Public Works/Engineering Dept., Water Dept., and Education Department	Field Trip Curriculum, # of field trips organized each year.	Educational tours of the Water Treatment Plant are given year round where stormwater issues are incorporated. A tour was given to Andover Middle School Green Team and stormwater pollution was a key theme.	Continue to visit classrooms and hold annual field trips for science classes to visit the Town's water treatment plant. Encourage class projects and activities related to stormwater issues.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2D	Install Storm Drain Markers or Stencils	Department of Public Works/Engineering Dept, Water Dept., and Volunteers	50% of storm drains marked by year 5 with door hangers placed in associated neighborhoods.	Storm drain markers were installed at 5 catch basins by Town personnel. An Eagle Scout project installed an additional 500 catch basin markers and distributed approximately 900 door hangers throughout Town. An informational article was published in August 2009 as outlined in BMP 1C. Approximately 75% of catch basins have been marked to date.	Continue marking storm drains throughout the watersheds and refresh markers as needed through the use of Town personnel and volunteers. Distribute door hangers as time and people are available.
Revised					
2E	Work With Watershed Organizations to Incorporate Stormwater Information into Their Programs	Department of Public Works/Engineering Dept, Water Dept., and Conservation Commission	Document quarterly meeting topics. Agenda, meeting notes, and attendance sheets.	The Fish Brook Watershed Advisory Committee (FBWAC) meets regularly to oversee protection of the Fish Brook Priority sub basin. They also discuss stormwater and other watershed initiatives. Town staff works regularly	Continue working with local watershed groups and residents to discuss stormwater concerns. Encourage additional projects like that undertaken by Brickstone Square properties to improve water

Revised				with the committee and helped prepare a report intended to preserve the water quality in the Fish Brook subbasin, including a study relative to sodium levels caused by deicing practices within the subbasin. The Conservation Director has partnered with the Shawsheen River Watershed Association (SRWA) to locate outfalls with excessive sediment flow. Both the director and SRWA met periodically to discuss the overall health of the river and restoration strategies. As part of this project, Brickstone Square properties has voluntarily undertaken a \$1,000,000 renovation project to protect the Shawsheen River from sediment-laden runoff from its parking lots consisting of the removal of sand and grit from the river and the installation of a Stormceptor unit. The Town also participated as a sponsor community for the 2009 Greenscapes program as outlined in BMP 1B.	quality.
---------	--	--	--	--	----------

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
3A	Develop Primary Town Storm Drain System Map	Department of Public Works/Engineering Dept., Consultant	90% of system mapped on GIS.	90% of the drainage system was mapped during permit year 1 using existing plans. Through subsequent mapping efforts, 99.5% of the drainage system has now been mapped.	No further activity is required for this task.
3B	Complete Storm Drain System Map	Department of Public Works/Engineering Dept., Consultant	Outfalls map completed.	An additional 36 outfalls were located, inspected and mapped during this Permit Year; 7 showed dry weather flow, 4 were sampled, and 1 was not flowing upon reinspection. None showed evidence of illicit discharges. Approximately 13 outfalls remain to be located and inspected, however all are buried, submerged, or obscured. Additional stormwater infrastructure has been added through research of existing records and through field inspections with GPS equipment during Permit Year 7 as follows: 30,660 l.f. of pipe, 146 catch basins, 133 manholes, 27 inlets, and 4 grit/oil separators.	Continue verifying the location of the drainage system as mapped under BMP 3A and incorporate changes as needed. The Town will also update the map as new drainage systems and new developments are constructed.
3C	Develop Illicit Discharge Prohibition Ordinance	Planning Board, Board of Health, and Selectmen	Obtain authorization to control inputs to the municipal drainage system.	Illicit Discharge Rules and Regulations were adopted by the Board of Health on July 9, 2007.	Completed.

Revised			An additional 15 outfall locations that were found previously were sampled during Permit Year 7; 6 of which previously had inconsistent dry weather flow; 9 of these showed no high bacteria counts, 3 showed inconsistent results, 3 showed high bacteria, one of which is private and the owner was notified of the results. The 3 remaining homes identified in Permit Year 6 that had not responded to requests to do dye testing were successfully contacted and responded. Dye testing was performed at 74 Haverhill Street, 24 William Street, and 21 William Street. Results showed no illicit connections from these 3 residences. During Permit Year 7, a contractor was hired to investigate the drainage system for possible illicit connections in 2 of the suspect locations in the Stratford Road and William Street area by using a remote camera unit. The results of the inspection were received in mid-April 2010 and will be incorporated into the next permit term. A second contractor was hired to clean the storm drain lines.	Road and William Street area for possible illicit discharge points. Evaluate connections for future dye testing or additional inspection. Areas that had excessive sediment and prevented the exploration with a camera will be cleaned and reinspected.
---------	--	--	---	---

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
3E	Incorporate Information on Illicit Discharges into Public Education and Outreach Topics	Department of Public Works/ Engineering Dept., Water Dept., and Board of Health	Copies of materials.	General information on illicit discharges is posted on the Stormwater Management section of the Town website as outlined in BMP 1A. A link to an interactive Illicit Discharge informational demonstration was also included. The Fish Brook Watershed Advisory Committee completed changes to the Fish Brook Watershed Bylaw and was amended at Town Meeting in May 2009. The amended bylaw is now in effect and has been approved by the state Attorney General's office.	Continue incorporating information on illicit discharge into public education and outreach topics.
Revised					
3F	Setup and Advertise a Hotline for Illicit Discharges	Department of Public Works/ Engineering Dept., and Board of Health	Log of complaints and actions taken.	No calls were received involving illicit discharges during Permit Year 7.	Continue to receive complaints and take corrective actions based on calls to the Stormwater Telephone Hotline outlined in BMP 2B.
Revised	Establish a Procedure to Receive Calls				Continue to document the complaint in the log including investigation findings, actions taken, and follow-up actions.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
4A Revised	Develop Erosion Control Bylaw	Planning Board and Selectmen	Bylaw at Town meeting by year 3.	The Stormwater Management & Erosion Control Bylaw was adopted at the 2008 Annual Town Meeting. The Planning Board adopted the accompanying Stormwater Management Rules and Regulations in February of 2009. No additional work took place during Permit Year 7.	Completed.
4B Revised	Establish a Procedure for the Receipt of Information Submitted by the Public	Planning Board and Department of Public Works/ Engineering Dept.	Record number of phone calls, copies of articles.	19 calls were received and logged as part of the Stormwater Telephone Hotline as outlined in BMP 2B, set up through the DPW Engineering Division and advertised on the Town website. The bulk of calls pertained to flooding and excess runoff complaints. Appropriate actions were taken and documented in the complaint log as part of the process. The log also includes investigation findings, actions taken, and follow-up actions.	Continue to receive complaints and take corrective actions based on calls to the Stormwater Telephone Hotline outlined in BMP 2B. Continue to document the complaint in the log including investigation findings, actions taken, and follow-up actions.
4C Revised	Develop Guidance for Erosion Controls & Conduct Inspections	Planning Board, Dept of Public Works/ Eng Dept., Conservation Commission, & Consultant	Inspection checklist and documented inspections.	The Stormwater Management & Erosion Control Regulations provide specific guidelines of erosion controls and inspections along with annual reporting.	Completed.

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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
5A	Develop BMP Bylaws	Planning Board	Bylaw at Town meeting by year 3.	The Stormwater Management & Erosion Control Bylaw was adopted at the 2008 Annual Town Meeting. The Planning Board adopted the accompanying Stormwater Management Rules and Regulations in February of 2009. No additional work took place during Permit Year 7.	Completed.
5B	Develop and Implement Inspection Program	Planning Board, Department of Public Works/ Engineering Dept., Conservation Commission, Selectmen and Consultant	Copies of maintenance reports received annually, plus records of inspections completed and results.	For every Homeowners' Association (HOA) documented by the Planning Division a comprehensive file has been put together to track the inspections and maintenance of HOA BMPs. Inspection reports for three sites were received by Planning for Stirling Woods, High Meadow Rd.	Follow-up meetings and reminder letters to the Homeowners' Associations will be necessary on a yearly basis to ensure that the drainage areas are being inspected and maintained and Operation and Maintenance Plans are being followed. Continue to document

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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6A Revised	Sweep Streets in Town	Department of Public Works/Highway Division	Priority plan of sweeping based on water quality impact.	All streets are swept in Town at least annually. Streets in the downtown area are swept approximately twice a week from May through October.	Continue street sweeping program.
6B Revised	Clean Catch Basins	Department of Public Works/Highway Division and Consultant	Records of cleaning, inspections and maintenance.	Catch basins are cleaned at least every other year, with high priority catch basins cleaned more frequently. 1,495 catch basins were cleaned during Permit Year 7. Remaining catch basins will be cleaned when resources are available.	Continue to clean all catch basins in Town at least once every two years and modify cleaning frequency as needed.
6C Revised	Develop and Implement an Inspection and Maintenance Plan	Department of Public Works/Highway Division, Plant and Facilities Dept., Water/Sewer Dept.	Written policy. Records of inspections and maintenance.	Inspections and maintenance are performed and procedures are modified as necessary. All Plant and Facilities Dept. oil/water separators were inspected during Permit Year 6. 2 structures at the town garage were cleaned on August 31, 2009. A total of 2,100 gallons of liquid and 10.5 tons of sludge were removed and properly disposed of offsite.	Continue to perform inspection and maintenance of BMPs and catch basins and modifying frequency as necessary. Clean additional oil/water separators identified previously as funding is made available.
6D Revised	Berm Sand/Salt Pile and Evaluate Options for Protection	Department of Public Works/Highway Division	Records of modifications, including photos.	Shed was constructed in permit year 1 to store sand/salt pile from runoff. No further action is needed.	No further action is required.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6E Revised	Store Paving Tools and Equipment Indoors	Department of Public Works/Highway Division	Designated indoor storage area. Record of Memo.	All paving tools and equipment are now stored indoors in designated areas.	Continue to store all tools and equipment indoors in designated areas.
6F Revised	Rinse Marking Paint Buckets to the Sanitary Sewer System and Store Buckets Indoors	Department of Public Works/Highway Division	Designated indoor storage area. Record of Memo.	All marking paint buckets are rinsed to the sanitary sewer system and stored indoors.	Continue to rinse all marking paint buckets to the sanitary sewer system and store indoors.
6G Revised	Implement BMP's to Reduce Sediments Entering the Drainage System	Department of Public Works/Highway Division	Records of sweeping and inspection records.	The paved roadway and catch basins at the DPW Yard were swept and cleaned weekly. Catch basins cleaned on a schedule and as needed/able.	Continue to sweep the paved roadway and clean the catch basins at the DPW Yard on a frequent basis.
6H Revised	Bring Floor Drain System at the Water/Sewer Building into Compliance	Department of Public Works/Engineering Dept.	As-built sketches.	Floor drain was brought into compliance in permit year 1.	No further action is required.
6I Revised	Bring Floor Drain System at the Vehicle Maintenance Building into Compliance	Department of Public Works/Engineering Dept.	As-built sketches.	Floor drain was brought into compliance in permit year 1.	No further action is required.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6J Revised	Wash Vehicles in Accordance with DEP Regulations	Department of Public Works/Highway Division	Record of Memo.	Vehicles are washed indoors to floor drains that discharge into an oil/water separator and the sanitary sewer system.	Continue washing vehicles indoors.
6K Revised	Implement Stormwater BMPs at the Fueling Station	Plant and Facilities Dept. and Consultant	Repair Records. Better housekeeping for small spills. As-built sketches or plans. Record of memo.	A fully stocked spill kit and disposal containers are maintained onsite to clean up future leaks. Any waste will be disposed of properly.	Continue to keep fully stocked spill kit and disposal container on-site to clean up any future leaks and to dispose of wastes properly.
6L Revised	Develop an Inspection and Maintenance Program for the Liquid Calcium Chloride (CaCl) ASTs.	Department of Public Works/Highway Division	Inspection and Maintenance Plan. As-built sketches or action taken. Record of memo.	An inspection and maintenance plan and procedures for handling significant leaks and spills were completed in permit year 2. The equipment is maintained as needed and no incidents occurred. Calcium Chloride tanks are inspected weekly and maintained as needed.	Continue program.
6M Revised	Implement BMPs at the Ledge Road Landfill	Department of Public Works	Complete landfill cap.	A Comprehensive Site Assessment (CSA) was performed during Permit Year 6, as well as the semi-annual groundwater & air sampling. Supplemental human health risk characterization, bioavailability of arsenic in wetlands, sediments and ecological risk assessment of arsenic studies were requested by MADEP and completed. Voters approved a \$7.34M construction bond at the Town Meeting during Permit Year 6.	An extension of Town deadlines has been requested. This BMP is anticipated to continue through at least 2012.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6N Revised	Provide Additional Slope Stabilization at the Snow Dump and Storage Location	Department of Public Works/Engineering Dept. and Highway Division	As-built sketches or plans and photos.	Completed in permit year 1.	No additional work is needed.
6O Revised	Ensure Compliance for Floor Drains and Vehicle Washing Activities at the West Fire Station	Plant and Facilities Dept. and Fire Dept.	Sketches or inspection memos. Record of memo.	Continued washing vehicles indoors.	Continue to prohibit outdoor vehicle washing and wash vehicles indoors.
6P Revised	Ensure Compliance for Floor Drains and Vehicle Washing Activities at the Ballardvale Fire Station	Plant and Facilities Dept. and Fire Dept.	Sketches or inspection memos. Record of memo.	Continued washing vehicles indoors.	Continue to prohibit outdoor vehicle washing and wash vehicles indoors.
6Q Revised	Wash Vehicles at the Approved Vehicle Wash Area at the Police Station (Public Safety Building)	Plant and Facilities Dept. and Police Dept.	Record of memo.	Continued washing vehicles at approved wash areas. Outdoor vehicle washing is prohibited.	Continue to wash all vehicles indoors at approved vehicle wash areas.
6R Revised	Prohibit Vehicle Washing at the Cemetery Buildings	Plant and Facilities Dept. and Fire Dept.	Record of memo.	Continued washing vehicles at approved wash areas. Vehicle washing at the Cemetery Buildings is prohibited.	Continue washing vehicles at approved sites.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6S Revised	Rinse Marking Paint Buckets to the Sanitary Sewer System at the Park Shop	Plant and Facilities Dept. and School Dept.	Record of memo.	Continued rinsing all marking paint buckets to the sanitary sewer system.	Continue rinsing all marking paint buckets to the sanitary sewer system.
6T Revised	Ensure Compliance with SPCC Plans for the West, Shawsheen, and Bancroft Elementary Schools	Plant and Facilities Dept. and School Dept.	Record of inspections and activities in accordance with the plan.	Continued inspecting facilities in accordance with the SPCC Plans.	Continue inspecting facilities in accordance with the SPCC Plans.
6U Revised	Use IPM Program for Application of Pesticides in Town	Plant and Facilities Dept.	Copy of “Chapter 85 of the Acts of 2000”.	Continued Integrated Pest Management (IPM) Program for application of pesticides (herbicides and insecticides) and fertilizers on Town-owned lands. Abided by the rules contained in Commonwealth of Massachusetts Chapter 85 of the Acts of 2000 (an act protecting children and families from harmful pesticides). A previously developed mosquito control plan was followed and involved treating catch basins for larvae in the Spring. No adult mosquito control program was used during Permit Year 7.	Continue Integrated Pest Management (IPM) Program. Survey the mosquito population to identify potential virus outbreaks of West Nile or Eastern Equine Encephalitis. If a virus outbreak is threatening, the Town will spray for adult mosquitoes.
6V Revised	Use Licensed Applicators for Fertilizers and Pesticides in Town	Plant and Facilities Dept	Record quantities of fertilizers and pesticides purchased annually.	Continued to use licensed applicators to apply fertilizers and pesticides in Town.	Continue to use licensed applicators to apply fertilizers and pesticides in Town.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6W Revised	Store Road Salt Under Cover and Clean Loading Area	Department of Public Works/Highway Division	Minimize stormwater contact with salt.	Stored all road salt materials under cover at the DPW Facilities Plant and Yard and cleaned loading area on a regular basis.	Continue to store all road salt materials under cover at the DPW Facilities Plant and Yard and clean loading area on a regular basis.
6X Revised	Use Low Salt Applications at Designated Areas	Department of Public Works/Highway Division	Use less salt within the Haggetts Pond watershed, as demonstrated with application rate.	Deicing practices were modified during Permit Year 6 to reduce salt application within Haggetts Pond watershed for water supply protection. Low salt applications in the Haggetts Pond watershed were continued. Also, Water Dept. and Health Dept. staff continue to work with the FBWAC together with MassDOT and lawmakers to relocate the MassDOT salt storage shed out of the Fish Brook subbasin in an effort to reduce sodium levels and preserve the quality of the subbasin. Microwells continued to be monitored for deicing contaminants and continuous stream gages trend seasonal deicing impacts in Fish Brook	Continue to use low salt applications in the Haggetts Pond watershed for water supply protection. Continue to meet with MassDOT and monitor groundwater and streams until salt storage shed is relocated.
6Y	Ensure Proper Waste Disposal in Town for Hazardous and Special Wastes	Department of Public Works and Consultant	Document quantity of wastes collected annually.	Hazardous household wastes and electronics waste were collected at drop-off events. A Household Hazardous Waste (HHW) collection	Continue to ensure proper waste disposal in Town for hazardous and special wastes as conducted in the past.

Revised				event was held on May 30, 2009 and resulted in the collection of approximately 8 tons of material. A collection event for cathode ray tubes (CRTs), batteries, and electronic equipment were held on June 6, 2009 and resulted in the collection of 28.5 tons of material for safe disposal.	
6Z	Ensure Compliance for Snow Disposal in Town	Department of Public Works/Highway Division	Utilize designated snow disposal location.	Continued existing practices for snow disposal activities in Town to ensure surface water quality protection.	Continue existing practices for snow disposal activities in Town to ensure surface water quality protection.
Revised					
6AA	Conduct Town Employee Stormwater Training	Town Manager, Department of Public Works, Plant and Facilities Dept., Police and Fire Dept. and Consultant	Attendance sheet and copy of program.	A training seminar for DPW employees was held on April 29, 2010 for good housekeeping practices. DPW employees also received training on erosion/sedimentation control at various work sites.	Conduct a formal refresher training as in years past. Also conduct informal training at applicable work sites.
Revised					

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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
7A	Develop a Water Quality Strategy for 303d Waters	Town Engineer & Consultant	Summary of pollution prevention efforts, future needs, and responsible parties. Copy of surface water quality strategic plan.	The Town discussed developing a strategy to meet the TMDL considering existing actions under the Phase II stormwater management program and available resources. The next steps for developing a water quality strategy are pending the reissuance of the Phase II Permit.	Review the pending Phase II Permit and develop an implementation strategy to meet the TMDL that considers the goals of the TMDL, available resources, actions currently being undertaken by Andover and actions by others under the MA DEP RIA Permit.
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.	Progress on this BMP will follow the progress made on BMP 7A.	Progress on this BMP will follow the progress made on BMP 7A.
Revised					