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**Municipality/Organization:** Town of Holliston

**EPA NPDES Permit Number:** MAR041122

**MaDEP Transmittal Number:** W-041092

**Annual Report Number & Reporting Period:** March 07-March 08 (Year 5)

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Paul D. Le Beau Title: Town Administrator

Telephone #: 508-429-0608 Email: lebeaup@holliston.k12.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: *Paul D. Le Beau* for Paul Le Beau

Printed Name: Paul D. Le Beau

Title: Town Administrator

Date: 1/20/10

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

The Town of Holliston stormwater management "team" is comprised of representatives in the Highway Department, Water Department, Planning Board, Conservation Commission, Board of Health and Selectmen's office. We continue to meet in order to discuss progress made on the program and establish new goals. Utilizing the MA Smart Growth Toolkit as a model, the Town adopted a by-right Open Space Residential Development by-law at the May 2007 Annual Town Meeting. This by-law became effective in August 2007. The Planning Board adopted implementing regulations in August as well. Provisions require all residential subdivisions to dedicate 50% of the total land area for open space. Additionally, as a result of draft materials circulated to the stormwater group as well as a public workshop on March 13, 2008 and public hearing on March 27<sup>th</sup>, a stormwater management and land disturbance by-law, earth removal by-law, illicit discharge by-law and village residential zoning district were presented for action at the annual town meeting.

Over the past year, we have made a lot of progress in the areas of self and public education as well as improving the physical plants at town owned buildings. Plans were finalized for the reconstruction of the Police Station and installation of a stormwater management system there. We have completed a many of our original goals and continue to look towards ways of improving implementation of our plan.

**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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
1A	Establish a classroom education program.	ConCom, Water		Continue Program. Added cable access TV educational programming (Safety and Environment).	Continue Program. Continue cable access TV educational programming.
1B	Distribute brochures and fact sheets to residents and businesses	ConCom, Selectmen		Continue distribution at meetings and via town mailings and at 'Celebrate Holliston' annual community event.	Update website as appropriate.
1C	Publish articles on stormwater protection in local papers.	ConCom/ Planning Board	Ongoing	The Planning Board held a workshop and public hearings on stormwater regulation amendments.	Legal notices and local press received for by-law amendments described above in Self-Assessment.
1D	Develop stormwater section on town website	Selectmen	Ongoing	Town Website has an established general stormwater management area as well as specific regulations and applications under various town departments. It can be accessed by going to <a href="http://www.townofholliston.us">www.townofholliston.us</a>	Update website as necessary, including new regulations and application forms.
1E	Create stormwater educational display	Water Department/ BOH	Ongoing	Ongoing. Posters placed in land use section of Town Hall.	

**1a. Additions - none**

**2. Public Involvement and Participation**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
2A	Establish a stormwater hotline	ConCom	Record number of calls	Covanta Energy has established its own Holliston Transfer Station hotline.	Depts. working together to field calls and respond to complaints.
2B	Distribute stormwater educational material during public meetings	Selectmen/ Planning Board	Ongoing	Stormwater information available on town website.	Update website as necessary.

2C	Conduct river and pond cleanups	ConCom	Holliston Conservation Associates undertaking cleanups of all waterways in the town	The Lake Winthrop Watershed Association filed an NOI to lower the lake to clean weeds. The project is still under review due to the discovery of endangered mussels.	The Conservation Commission is investigating EPA funding for long-term solution to Lake Winthrop water quality issues.
2D	Mark storm drains	Highway	50% of drains marked by year 5	Completed this year.	Will inspect stencils for clarity and re-paint as necessary
2E	Native Tree/shrub planting program.	ConCom	Tree replacement	The Commission requires that native trees be used in wetland replication or remediation. The Conservation Associates continue to plant native species on conservation lands.	Planning Board site plan review regulations and subdivision regulations now have native species preferences for private site development.

**2a. Additions** – The Town will evaluate the feasibility of installing “No dumping” signs in areas prone to bulky item dumping. Dog Officers have been active in issuing non-criminal disposition fines with regard to dog waste and education regarding same (Town by-law provisions adopted in May 2005).

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
3A	Develop primary storm drain system map	Highway	100% of system mapped on GIS	Ongoing. As-builts of new residential subdivisions being solicited.	Continue to update as needed.
3B	Complete mapping of stormwater outfalls	Highway	All outfalls mapped by Year 5.	Complete	100% complete.
3C	Illicit discharge prohibition bylaw	Planning Board, Board of Health		Currently under the jurisdiction of the Holliston Board of Health regulations as well as	Additional provisions of zoning amended in May 2008 as described above in Self-Assessment.
3D	Develop illicit discharge detection and elimination plan	Highway, Board of Health	Outfalls examined by year 5. Sources traced and documented	Will start inspections during dry season. Concentrating in priority areas.	On-going, yearly inspections.

**3a. Additions.** Town trash contractors will continue to provide curbside pickup of leaves and yard wastes (ongoing annual). Information made available on local cable access television.

3E	Hold Annual Hazardous Waste Day (HHHW).	Selectmen	Annual event planned	We held a HHHW day last fall and part of a multi-town consortium.	Ongoing annual participation.
3G	Evaluate stormwater discharge to rare or endangered species habitats	ConCom	Locating habitats is an on-going process	MNHESP estimated habitat map shows certified vernal pools and estimated polygons. ConCom Bylaws and regs were created to protect end species habitat. Vernal pools certification is ongoing.	Continue to participate and partner with Massachusetts Natural Heritage Program BioMap Project, especially in site development review.

**4. Construction Site Stormwater Runoff Control**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
4A	Develop erosion control bylaw	Planning Board, Building Inspector	Bylaw at Town Meeting by end of year 2.	Conservation Commission rules and regulations adopted 2005. Planning Board regulations strengthened 2007. By-Law adopted 5/08.	Update BMP preferences and LID practices as necessary.
4B	Establish a procedure for the receipt of information submitted by public	Planning Board, ConCom, Board of Health	Record number of phone calls and complaints	Information regarding all dept. regulations are currently on the town website with links to other resources.	Interdepartmental referrals of land use issues for follow-up (BOH, ConCom, Planning Board and Building)
4C	Develop guidance for erosion controls	ConCom/ Planning Board	Inspection checklist and document inspections	Requirements are cited in Orders of Conditions for ConCom and decisions by Planning Board. Erosion controls are inspected by Agent(s) after installation.	Look to strengthen guidelines within LID by-law.

**4a. Additions** – Consider by-law provisions limiting development on steep slopes. Review 100% of plans and SWPPP for construction projects 1-5 acres. Goal: Inspect 100% of projects within the regulated area that discharge to the MS4. Define procedures for issuing and tracking permits. Accomplished in 2008 adoption of Land Disturbance by-law provisions for areas over 250 s.f. of >10% slopes.

### 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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
5A	Develop stormwater management control bylaw	Planning Board, Building Inspector	Bylaw at Town meeting by end of year 2.	Regulations currently under the jurisdiction of the Planning Board and ConCom. By-law amendments as described above in Self-Assessment.	Waiting for MA DEP amendments to stormwater policy handbook.
5B	Develop and implement inspection program	Planning Board, Highway, ConCom, Building Inspector	Copies of maintenance reports, inspections completed and results	O&M Plans are required for detention basins and stormwater systems for developments.	Inspected during sub-division installation and yearly thereafter. Reports to Highway Dept required for commercial sites. Ongoing.
5C	Develop BMP design standards	Planning Board, Building Inspector	Improved bylaws as adopted	Adopted by Planning Board in June after a series of hearings.	Ongoing as BMP's are field-tested.

**5a. Additions** - In July after a series of public hearings, the Planning Board adopted stormwater regulations that will regulate all residential subdivisions (2 or more lots) as well as commercial site development (multi-family, commercial and industrial development). The Board of Health has rescinded their stormwater regulations as a result. Additional by-law provisions are anticipated. Define procedures for issuing and tracking permits. Additional b-law provisions put forward in May 2008 as a result.

### 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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
6A	Comply with DEP policy for vehicle washing at town owned facilities	Highway	Vehicle wash unit	The Highway Department has installed a vehicle wash point that incorporates a water recycling and filtration system. This facility is open to all town departments.	Done
6B	Ensure compliance for floor drain systems	Highway	Modification of floor drain systems	All town buildings with floor drain discharges have been plugged and are no longer used.	Done

6C	Evaluate and implement stormwater BMP for police station parking lot runoff	Police, Highway	Police station retrofit.	Renovations designed	Under construction.
6D	Clean catch basins	Highway	Clean basins	On going program. All basins cleaned annually. Continue practice in place.	Yearly
6E	Sweep streets	Highway	Sweep Streets	On going program. All streets swept yearly and additionally as necessary. Continue practice in place.	Yearly
6F	Develop an inspection and maintenance plan	Highway	Records of inspections and maintenance.	Schedule posted at the Highway garage. Done routinely. Continue practice in place.	Yearly

**6a. Additions**

6I	Prevent stormwater contact with fueling station	Highway		Fuel blanket at the site and ongoing preventative measures in place.	Spill kits available
6J	Evaluate sediment loading to wetlands	Highway		Corrected with new washdown system which has been installed.	

**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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
7A	Develop a water quality strategy for 303d waters	Highway, Selectmen	Strategy developed	Still in progress. Not yet started.	Not done
7B	Implement BMPs from Water quality strategies	Highway, Selectmen		Still in progress. Not yet started.	Not done

**7b. WLA Assessment**

Through improvements at the Highway Department and with the addition of a new washdown unit all town vehicles are now washed at the Highway Department. This will decrease the waste load allocation on many wetland areas in town including ones adjacent to the Highway Department, Fire Station, Police Department. Water Department foundry and Golf Course. Additionally, the Water Department has removed the stored material behind the foundry eliminating the migration of silt into neighboring sensitive wetland areas.

**Part IV. Summary of Information Collected and Analyzed**

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

**Programmatic**

Stormwater management position created/staffed	(y/n)	No (contract services).
Annual program budget/expenditures	(\$)	0 (Developer escrow accounts funds contractors)

**Education, Involvement, and Training**

Estimated number of residents reached by education program(s)	(# or %)	100+
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	N/A
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> <li>▪ days sponsored</li> </ul>	(#)1	One scheduled for July. Plus participation in consortium
<ul style="list-style-type: none"> <li>▪ community participation</li> </ul>	(%)	Varies
<ul style="list-style-type: none"> <li>▪ material collected</li> </ul>	(tons or gal)	Varies (annual report available)
School curricula implemented	(y/n)	Yes



**Legal/Regulatory**

	In Place Prior to Phase II	Under Review	Drafted	Adopted
<b>Regulatory Mechanism Status (indicate with "X")</b>				
▪ Illicit Discharge Detection & Elimination	BOH regs for subdiv.			X
▪ Erosion & Sediment Control	BOH regs for subdiv.	X		X (May 2008)
▪ Post-Development Stormwater Management	Planning Board regs for subdiv.			X
<b>Accompanying Regulation Status (indicate with "X")</b>				
▪ Illicit Discharge Detection & Elimination	BOH regs for subdiv.		X	X (May 2008)
▪ Erosion & Sediment Control	BOH regs for subdiv.		X	X (May 2008)
▪ Post-Development Stormwater Management	BOH			X

**Mapping and Illicit Discharges**

Outfall mapping complete		(%)	100
Estimated or actual number of outfalls		(#)	300
System-Wide mapping complete		(%)	100
<b>Mapping method(s)</b>			
▪ Paper/Mylar		(%)	
▪ CADD		(%)	100
▪ GIS		(%)	100
Outfalls inspected/screened		(# or %)	100%
Illicit discharges identified		(#)	0
Illicit connections removed		(#)	0
% of population on sewer		(est. gpd)	
% of population on septic systems		(%)	0
		(%)	100

### 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 %)	1
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	1

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
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)	1/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1/yr
Total number of structures cleaned	(#)	2,600
Storm drain cleaned	(LF or mi.)	89 miles
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	240 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Compost recycling
Cost of screenings disposal – Compost Screening	(\$)	\$7,400
Grinding brush and stumps -3,400 cubic yards	(\$)	\$4,000
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	602 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Recycling Ctr.
Cost of sweepings disposal	(\$)	0
Vacuum street sweepers purchased/leased	(#)	0 (1 – mech.)
Vacuum street sweepers specified in contracts	(y/n)	No

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	50 %
▪ Herbicides	(lbs. or %)	100 %
▪ Pesticides	(lbs. or %)	100 %

Anti-/De-Icing products and ratios	NaCl, CaCl <sub>2</sub> , MgCl <sub>2</sub> CMA Kac, KCl, Sand	State bid specs.
Pre-wetting techniques utilized	(y/n)	No
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 %)	15%
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	No. In place.