

Municipality/Organization: Littleton, MA

EPA NPDES Permit Number: MA041204

MassDEP Transmittal Number: W-035458

**Annual Report Number
& Reporting Period:**

No.4: March 06-March 07

P
05-01-07

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2007)

Part I. General Information

Contact Person: Donald Armstrong

Title: Acting Town Administrator

Telephone #: 978 - 952 - 2311

Email: armstrong@littletonma.org

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:

Kenneth P. Eldridge

Printed Name:

Kenneth P. Eldridge

Title: Chairman of the Board of Selectmen

Date:

4/23/2007

Part II. Self-Assessment

The Town of Littleton has completed the required self-assessment and has determined that
Our municipality is in compliance with all permit conditions except for the following provisions:

BMP ID

COMMENT

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
A	REQUIRED: Annual Report to EPA	Highway / Selectmen	Annual report due on May 1, 2007	Report submitted.	Submit report as required.
Revised					
1D	Stormwater Media Campaign	Water Dept	Media Info Package delivered to Media	Continued campaign including newsletter articles in LELWD Watts and Drop and newspaper, and information to Watershed Associations through Clean Lakes Committee.	Continued Public Relations including town wide program for rain gardens and rain barrel purchase/installation.
Revised					
1-G	Community Education: Hazardous Waste Day and Recycling advertised	Highway / Water Dept.	Continue to write At Least One Article Per Year in the Local Paper and post announcements elsewhere	On going hazardous materials collection at Transfer Station. Conducted Hazardous Waste Day	On going hazardous materials collection at Transfer Station. Conduct hazardous waste day subject to approval of proposed funding.
Revised					
1-H	Business Education	Water Dept	Expand Commending Businesses for Environmental Practices	New LID/BMP Stormwater Manual to environmental consulting firms and companies looking to move in to town and/or expand business in town.	Newsletter to all businesses through LELWD Watts and Drops quarterly newsletter
Revised					

1-K	Education via the Internet	Water Dept	Provide storm water links by year 2; provide Littleton specific information by year 4	LELWD Web Site has link to all materials published for Clean Lakes Committee and stormwater management programs over last 4 years.	Continued use of Internet for publication of programs and stormwater improvements.
Revised					
1-J	Education by media	Water Dept	Write at least one article in Watts and Drops news letter and newspaper per year	Numerous articles in local paper on stormwater management program in various watersheds of town. Large front page article on stormwater retrofits at Long Lake in Late Summer Independent	On going
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2-A	Stormwater Traveling Display	Water Dept.	Display circulates for a min of 3 months per year; Display is posted at a min of 3 locations per year	Kiosks on display at Boat Launch Area/Town Beach and Wetland Park Area of Long Lake outlining strategies being utilized to manage stormwater intrusion.	Continued use of Kiosks and new pamphlet on watershed management of stormwater
Revised					
2-D	Stormwater Summit Special Event	Water Dept	Hold Local or multi community stormwater summit year 4	Clean Lakes Committee has annual meeting on strategies being utilized for stormwater management and in lake restoration efforts. Planning Board Public Hearing on LID/BMP Stormwater Manual	Town Meeting, Spring 2007 to approve LID/BMP Stormwater Manual as part of zoning change.
Revised					
2-F	Annual Public Meeting/Hearing Regarding Plan Status and Reports to EPA	Selectmen	Hold meeting in April prior to May 1 submission of report	Public Hearing held by Selectmen on use of LID/BMP Manual with Planning Board.	Additional Meetings Planned
Revised					
2-G	Involve Watershed Groups: Clean Lakes Committee, Spectacle, Mill, Long, & Forge Ponds	Water Dept. & Local Groups	Continue meetings at least 4 times/yr; Continue annual cleanup days; Educational Information Shared by Town;	Ongoing – Clean Lakes Committee composed of 5 watershed associations of Town and very much involved with stormwater management issues. Monthly Meetings	Same
Revised					

2-H	Involve Children's groups (such as 4H, scouts)	Water Dept	Children's groups at least once per year help distribute or display educational information	Undertaken through Clean Lakes Committee – Watersheds have received stormwater identification kits that will be used this spring to educate public as to how stormwater flows towards lakes and ponds and "not to dump"	Same
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3-A	REQUIRED: Illicit Discharge Bylaw / Regulatory Mechanism	Water Dept / Highway	Develop draft bylaw; involve and educate public, municipal officials etc	Changes made to bylaws include: LID/BMP Stormwater Manual to maximize the attenuation and infiltration of stormwater.	Possible additional bylaw changes to promote better stormwater management
Revised		Water Dept has assumed lead role in this activity.		Board of Health Reg. on floor drains in manufacturing facilities and containment areas.	
3-B	REQUIRED: Storm Drain Map	Highway	Compile existing record plans and surveyed data. Find and locate drainage outfalls in the field.	Continued to compile plans and map additional areas of Town. Mapped approximately 60% of town drainage system using as built plans and field GPS locations	Continue to compile plans and map additional areas of Town. Continue GPS locations of outfalls/drain system and “catch up” with proposed 20% / yr mapping schedule.
Revised					
3-C	REQUIRED: Illicit Discharge Detection and Elimination Plan	Highway	Determine Priority Areas and Discuss Plan Visually Screen Outfalls During Dry Weather (at least 20% each year)	Visually screened drain structures for illicit discharges during annual cleaning. None reported. 35-40 outfalls inspected during routine maintenance; no illicit discharge observed.	Continue visual screening and awareness for illicit discharges. Continue ongoing hazardous materials collection at transfer station.

Revised					
3-D	REQUIRED: Illicit Discharge Education for General Public & Businesses	Water Dept.	Include illicit discharge education in the community, business, and Littleton specific flyers.	Numerous articles in newspapers and LELWD newsletter on this subject	Ongoing
Revised					
3-E	REQUIRED: Illicit Discharge Education for Municipal Employees	Water Dept.	Include illicit discharge education in training under measure 6	Same as 3-D and Environmental Analyst for Water Dept has developed new spill response/containment plan for LELWD and Highway employees.	ongoing
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4-A	REQUIRED: Construction Site Runoff Bylaw / Regulatory Mechanism	Water Dept / Planning	Initial discussions; Review current local/state regulations; Review proposed samples. Develop draft bylaw, involve and educate public etc. Implement bylaw by year 3.	Bylaws changes to be enacted at Spring 2007 Town Meeting and incorporated in BMP/LID Stormwater Manual	No further activity planned
Revised					
4-B	REQUIRED: BMP's for Construction Site Erosion, Sediment, and Waste Controls	Water Dept / Planning	Assess existing and brainstorm proposed. Prepare draft to include in bylaw. Implement bylaw by year 3.	See 4-A	See 4-A
Revised					
4-C	REQUIRED: Construction Site Plan Review Procedures	Water Dept / Planning	Assess existing and brainstorm proposed Prepare draft to include in bylaw. Implement review by year 3.	See 4-A	See 4-A
Revised					

4-D	REQUIRED: construction Site Inspection and Enforcement Procedures	Water Dept / Planning	Assess existing and brainstorm proposed Prepare draft to include in bylaw. Implement inspections by year 3.	See 4-A	See 4-A
Revised					
4-E	REQUIRED: Response to Public – “Stormwater Hotline	Water Dept	Implement “storm water hotline”. Advertise and test hotline. Implement hotline by year 3.	Stormwater Management issues responsibility of Highway and Water Departments through 7 x 24 hour call center.	ongoing
Revised					
Revised					

4a. Additions

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5-A	REQUIRED: Post-Construction Site Runoff Bylaw / Regulatory Mechanism	Water Dept / Planning	Initial discussion; Review current local/state regulations; Review proposed samples. Develop draft bylaw, involve and educate public. Float new bylaw by year 3 for one year comment period.	Completed – see 4-A	Completed
Revised					
5-B	REQUIRED: Choose Structural and Non-Structural BMP's	Water Dept / Planning	Assess existing and brainstorm proposed. Prepare draft to include in draft bylaw. Implement bylaw in year 3.	Completed – See 4-A	Completed
Revised					

5-C	REQUIRED: Long-Term BMP Operation and Maintenance Procedures	Water Dept / Planning	Assess existing and brainstorm proposed. Prepare draft to include in draft bylaw. Implement bylaw in year 3.	Completed See 4 A	Completed
Revised					
5-D	REQUIRED: Structural BMP Implementation Procedures	Water Dept / Planning	Assess existing and brainstorm proposed. Prepare draft to include in the draft bylaw. Implement bylaw in year 3.	Completed See 4A	
Revised					
Revised					
Revised					

5a. Additions

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6-A	REQUIRED: Employee Training to Prevent/Reduce Stormwater Pollution	Highway / Water Dept.	Assess who, when, and what topics; Create schedule and checklist. Sample/test training.	SPCC identified personnel and subjects for training. No training was conducted.	Schedule and conduct training.
Revised					
6-B	REQUIRED: Maintenance/Inspection of Storm Sewers and Structural/Non Structural Controls	Highway	Develop New/Improved Schedules and Procedures.	Determined existing schedule and procedures for annual cleaning and inspection of storm sewer structures is adequate. Conducted annual sweeping and cleaning of municipal lots and streets. Repairs as necessary. No reported illicit discharges.	Continue to maintain and inspect storm water system under existing schedules and procedures.
Revised			No change to existing operational procedures warranted.		
6-C	REQUIRED: Pollutant Source Reduction/Elimination from Municipal Facilities & Activities	Highway	Fully Implement proposed BMP's	Maintenance and operation of BMP's	Maintenance and operation of BMP's
Revised			This activity was completed in year 1.		
6-D	REQUIRED: Waste Disposal Procedures from Storm Sewers & Municipal Facilities/Activities	Highway	Assess existing waste disposal procedures. Develop draft procedures.	Continue to sweep streets/municipal facilities and clean storm drainage systems in accordance with established procedures	Continue to sweep streets/municipal facilities and clean storm drainage systems in accordance with established procedures.
Revised			This activity was completed in year 3		

Revised	Reduction of Sand in De-icing Operations	Highway	Reduction/elimination of sand in de-icing operations to reduce street sweeping/catch basin waste.	Began using pre-wetting agent, calibrated spreading equipment to reduce application rates, implemented de-icing operation to minimize use of sand.	Continue to refine new de-icing operation though trail and error and additional training.
Revised					

6a. Additions

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n) part-time	
Annual program budget/expenditures	(\$)	50,000 25,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	Y (CLC)
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y N/A
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	100 %
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Y

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control			X	
▪ Post-Development Stormwater Management			X	
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control			X	
▪ Post-Development Stormwater Management			X	

Mapping and Illicit Discharges

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

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

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

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

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

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	