

Received 7/14/2008

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TOWN OF WINTHROP



Office of the
Department of Public Works
100 Kennedy Drive
Winthrop, MA 02152
David J Hickey, Jr, Director
Phone: (617) 846-1341
Fax: (617) 539 1545

Mr. Jason Turgeon
US EPA, Region 1
One Congress Street
Suite 1100 (SEW)
Boston, MA 02114-2023

Re: Town of Winthrop Annual Report
EPA NPDES Permit No. MAR 041084

Dear Mr. Turgeon:

Please find attached the Town of Winthrop's Permit Report for 2008. The report documents the conditions, to the best of my knowledge and belief at this time. The Town continues to maintain implemented programs including street sweeping, storm drain cleaning and catch basin stenciling

If there are any questions, please do not hesitate to contact us.

Respectfully yours,

David J. Hickey Jr., P.E.
Director of Public Works

Cc: Thelma Murphy, MA DEP
Winthrop Conservation Commission
SAC Committee Members

Municipality/Organization: Town of Winthrop

EPA NPDES Permit Number: MAR051085

MaDEP Transmittal Number: W-050721

Annual Report Number

& Reporting Period: No. 5: March 07-March 08

NPDES PII Small MS5 General Permit Annual Report

Part I. General Information

Contact Person: David J. Hickey, PE

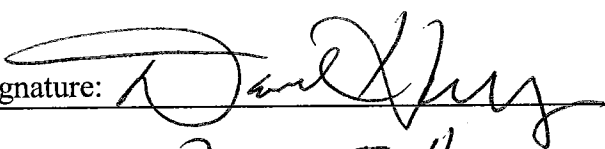
Title: Director of Public Works

Telephone #: 617 856 1351

Email: dhickey@town.winthrop.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: 

Printed Name: David J. Hickey

Title: Public Works Director

Date: July 7, 2008

Part II. Self-Assessment

NOI section 2c – Catch Basin Stenciling, after conducting some research we have decided to purchase seals which will be placed on streets with high pedestrian volume and near resource areas. After experiencing little interest in volunteer stenciling, the Town continued with the seal program.

NOI section 5 a thru e and 5 a thru 3 – Under a new government structure (Town Council) all bylaws and site regulations are being updated and re-codified. This has delayed implementation of new regulations.

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 Action 2008 and beyond
1a Revised	Nonpoint Source Pollution Posters	DPW Director		Winthrop cable access TV (WCAT) is rotating 5 public service announcements.	Continue to use cable access TV for public service announcements.
1b Revised	Local Cable Messages	DPW Director	Create/develop PSA's Air PSA's	The Town has completed these goals with the assistance of an outside vendor (Earth911) and the Winthrop Cable Access Television ppt on Stormwater drainage	Continue to use cable access TV for public service announcements.
1c Revised	Auto Repair Shop Brochures	DPW Director	Print and mail letters	The DPW distributed letters to auto repair shops.	Distribute brochures to auto repair shops.
1d Revised	Update Town Web Site	DPW Director And Winthrop GIS Department	Frequent update	quarterly messages	Post annual report on web site.
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 5 (Reliance on non-municipal partners indicated, if any) The SAC has conducted two meetings and is investigating the need for ordinance/by-laws changes.	Planned Activities – 2008 and beyond
2a	Form Stormwater Advisory Committee (SAC)	DPW Director	Form SAC Conduct meetings	Convene SAC	
Revised					
2b	Hazardous Waste Collection	DPW	Collect once per month years 3-5	Continue existing program	Continue existing program
Revised	Household Hazardous Waste Collection	And the Winthrop Recycling Committee	DPW Director Collect once per month during non-winter months		
2c	Implement Catch Basin Stenciling Program	DPW Director	Design & obtain stencil Organize stencils groups –stencil 25% of catch basins	Continuing marking of catch basins	Continue existing program Scaled to replace damaged markers
Revised					
2d	Hold Water Resource Cleanup Days	DPW Director	Collect trash and debris	Continue existing program	Continue existing program
Revised		Conservation Commission			

Revised					

2a. Additions

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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 – 2008 and beyond
3a	Map Outfalls and Receiving Waters	DPW Director	Update Existing Maps Field verify information	Continue to Update CADD file, Field investigate outfalls, Create Digital Maps from Existing Records, Update Existing Record	
Revised					
3b	Review Existing Bylaws and Regulations	Planning Department Planning Board & DPW Director	Draft & Pass storm water Bylaws	Town hired a consultant and drafted Bylaws. Present to Town Manager & Town Council for adoption as new Bylaws	Present proposed Bylaw to Town Manager & Council
Revised					
3c	Develop Illicit Discharge Detection & Elimination Plan	Planning Department	Draft & Pass storm water Bylaws	Town hired a consultant and drafted Bylaws. Present to Town Manager & Town Council for adoption as new Bylaws	Present proposed Bylaw to Town Manager & Council
Revised		Planning Board & DPW Director			
3d	Develop/Modify General Illicit Discharge Bylaw	Planning Department	Draft & Pass storm water Bylaws	Town hired a consultant and drafted Bylaws. Present to Town Manager & Town Council for adoption as new Bylaws	Present proposed Bylaw to Town Manager & Council
Revised		Planning Board & DPW Director			
3e	Present Bylaw for Town Meeting Action	Planning Department	Town Council to adopt		

Revised	<i>Present to Town Council</i>	Planning Board & DPW Director			
Revised					

3a. Additions

4. Construction Site Storm water 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 – 2008 and beyond
4a	Review Existing Site Inspection Practices	Planning Department	Develop regulatory compliance analysis Develop site inspection checklists	Examine EPA & DEP requirements 1. Developed site plan submittal ordinances, implementing storm water checklist	Continue site plan submittal process
Revised		Planning Board & DPW Director			
4b	Develop/Modify Site Inspection Program	Planning Department	Draft program and review with SAC		Modify checklist based on experience Estimate costs and examine applicability of fees Develop program
Revised		Planning Board & DPW Director			
4c	Review Existing Bylaws and Regulations	Planning Department	SAC adequacy report on existing practices and field controls		Document costs Documents results
Revised		Planning Board & DPW Director			
4d	Develop/Modify Bylaws for Construction Site Runoff	Planning Department	Develop bylaw based on 4a thru c		Research similar bylaws Meet with local contractors Develop sample bylaw Conduct hearings
Revised		Planning Board & DPW Director			
4e	Present Bylaw to Town Council	Planning Department	Submit Town Meeting Article		Prepare cost estimate Prepare Town Meeting Article Prepare for presentation in permit year 3
Revised		Planning Board & DPW Director			

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – 2008 and beyond
5a	Review Existing Site Inspection Practices	Planning Department	Develop regulatory compliance analysis Develop site inspection checklists	Trained key members of inspection staff. Meet regularly with building inspection and Con Com staff	
Revised		Planning Board & DPW Director			
5b	Develop/Modify Inspection & Maintenance Practices	Planning Department	Draft program and review with SAC	Modify checklist based on experience Estimate costs and examine applicability of fees Develop program – In development	
Revised		Planning Board & DPW Director			
5c	Review Existing Bylaws and Regulations	Planning Department	SAC adequacy report on existing practices and field controls	Document costs Documents results In development	
Revised					
5d	Develop/Modify Bylaws for Post Construction Site Runoff	Planning Department	Develop bylaw based on 5a thru c	Research similar bylaws Meet with local contractors Develop sample bylaw Conduct hearings In development	
Revised		Planning Board & DPW Director			

5e	Present Bylaw to Town Council	Planning Department	Submit Town Meeting Article	Prepare cost estimate Prepare Town Meeting Article	
Revised		Planning Board & DPW Director		Prepare for presentation in Permit Year 5. In development	
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – 2008 and beyond
6a	Maintain Street Sweeping Program	DPW	Sweep all streets twice per year	Town developed town wide once per month sweeping of all streets	Sweep streets 4 times a year minimum
Revised					
6b	Maintain Catch Basin Cleaning Program	DPW	Check basins quarterly Clean basins up to twice per year	Continue current program	Clean catch basins 2 days per week, non-winter months
Revised			Check basins annually Clean basins as required		
6c	Perform Site Visits to Examine Existing Practices at Facilities	DPW Director	Target all applicable municipal facilities by year 3	Site inspections and documentation ongoing	
Revised					

6d	Train Municipal Employees at Each Facility	DPW Director	Target all applicable municipal facilities by year 3	Develop site specific checklist Meet with Housing Department, Police Chief, Fire Chief, School Superintendent and Custodial staff In progress	
Revised					
6e	Perform Follow-ups to ensure Required Practices are Met	DPW Director	Target all applicable municipal facilities by year 5	Develop reports from field inspections and sample check lists Conduct follow-up meeting In development	
Revised					
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – 2008 and beyond
7a	Implement BMPs listed in Section 3	DPW Director	During years 2 & 3	Work with consultants and Town Manager to develop bylaws and obtain approval In progress	
Revised			Quantify sweeping and catch basin volumes Submit 3 bylaw changes/modifications		
7b	Review Winthrop Bay Existing Water Quality Data	DPW Director	Determine Winthrop contribution in year 5	Working with regional group (Mystic River Watershed Association) to conduct two rounds of testing and track results	
Revised					

7c	Review Effect of MWRA CSO on Water Quality	DPW Director	Determine MWRA CSO contribution year 5	Meet with MWRA and Surrounding community DPW's to update current CSO status In progress	
Revised					
7d	Initiate Illicit Connection Detection and Elimination Plan	DPW Director	Begin plan during year 5	None required	None planned
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Mystic River Watershed Association collected stormwater samples in Boston Harbor, Bell Isle Marsh and Lewis Lake. The samples were collected on 10/24/07 & 1/30/08. The winter sample was clean, the October sample indicated above average levels of enterococcus. The report raised some concerns about a possible broken pipe: the DPW is investigating.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	NO
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Annual program budget/expenditures – Town meeting approval for \$10K, fully utilized in catch basin repair/replacement and disposal of debris	(\$) 10,000	None*

Education, Involvement, and Training

Estimated number of residents reached by education program(s) *5-10% by WCAT, 5-10% by posters	(# or %)	10 to 20% estimated*
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.)	Yes
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	8 days
▪ community participation	(%)	
▪ material collected	(tons or gal)	8 tires 8 vehicles batteries 3,500 lbs of CRT's 39 propane tanks 50 gals of paint 400 gals of waste oil
School curricula implemented	(y/n)	No

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination	X occasional self audits and MWRA community assistance programs		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	(%)	90%
Estimated or actual number of outfalls	(#)	106
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	50
▪ GIS	(%)	0
Outfalls inspected/screened	(# or %)	0
Illicit discharges identified	(#)	0

Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	100
% of population on septic systems	(%)	0

Construction

Number of construction starts (>1-acre)	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	6
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
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 %)	0
Estimated volume of stormwater recharged	(gpy)	Approx, 70,000 gals
<i>Comment: Recharge estimate based on two new school sites (Banks and Cummings) where large infiltration structures have been constructed</i>		

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1

Total number of structures cleaned	(#)	200
Storm drain cleaned	(LF or mi.)	150
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	55 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	35,000 \$70 / ton

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	8
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	8
Qty. of sand/debris collected by sweeping	(lbs. or tons)	40 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	(\$)	\$70 / ton
Vacuum street sweepers purchased/leased	(#)	1
Vacuum street sweepers specified in contracts	(y/n)	N

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

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	100
Pre-wetting techniques utilized	(y/n)	Occasionally

Manual control spreaders used	(y/n)	No
Automatic or Zero-velocity spreaders used	(y/n)	No
Estimated net reduction in typical year salt application	(lbs. or %)	5%
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	