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Municipality/Organization: Plaistow

EPA NPDES Permit Number: NHR41026

MassDEP Transmittal Number: W-

Annual Report Number & Reporting Period: **April 1, 2006 – March 31, 2007**

NPDES PII Small MS4 General Permit Annual Report
(Due: May 1, 2008)

Part I. General Information

Contact Person: Jason Hoch Title: Town Manager

Telephone #: 603.382.5200x13 Email: jhoch@plaistow.com

Mailing Address: 145 Main Street, Plaistow, NH 03865

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: Jason Hoch

Title: Town Manager

Date: 11 April 2008

Part II. Self-Assessment

A spreadsheet detailing Best Management Practices for this permit year is attached as part of this submittal. In general, continued progress was made in the area of regulatory oversight and public awareness. Within the Town, administrative turnover in the position of Town Manager slowed progress on launching new initiatives.

Several areas of note include:

- Other demands on staff led to limited stenciling of storm drains.
- With ordinances adopted in earlier years of this permit, regulatory compliance continues

Major accomplishments during the year included:

- Inspection procedures put in place for regulating construction and post construction erosion and runoff following revisions to Site Plan and Subdivision ordinances
- Two Household hazard Waste Collection Days were held for Plaistow residents with one in Plaistow and one in Danville.
- Continuation of GPS mapping of the drainage map
- Visual inspection of outfall locations.
- Regular inspection, repair and maintenance of catch basins continued with each basin checked at least once every two years.
- Street sweeping program continued.

Part III. Summary of Minimum Control Measures

Attached are copies of the 2006-2007 plan and 2007-2008 plan.

Part IV. Summary of Information Collected and Analyzed

Decrease of 12 yards of screenings removed from storm sewer infrastructure from previous year.
Decrease of 18 yards of sand and debris collected by sweepings from previous year.
These decreases likely due to a milder winter, resulting in less application of product.
Decrease in quantity of batteries collected and 55 gallon drums of waste at household hazardous waste day.
This decrease likely due to decreasing participation in the collection days.

Part V. Program Outputs & Accomplishments (OPTIONAL)
(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures **	($)	Incorporated in other budgets
Total program expenditures since beginning of permit coverage	($)	N/A
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	6000
Stormwater management committee established	(y/n)	Conservation Commission handles
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

Shoreline cleaned since beginning of permit coverage	(mi.)	N/A
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	2
▪ community participation **	(# or %)	Less than 10%
▪ material collected **	(tons or gal)	200 batteries, 26 55 gal drums, other individual items
School curricula implemented	(y/n)	Yes

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	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

	(Preferred Units)	Response
Outfall mapping complete	(%)	50%
Estimated or actual number of outfalls	(#)	9
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	75%
Mapping method(s)		

▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	75%
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	0
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	0
% of population on septic systems	(%)	100%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	1
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 (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/year
Qty of structures cleaned **	(#)	450
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	63 yards
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or per basin contract rate **	($/hr or $ per basin)	
• Disposal cost**	($)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1/year
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	1/year
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	120 yards
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	

• Disposal cost**	($)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	7% 25%
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	Depends on weather

Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	Depends on weather
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	In place and under design
100% of salt/chemical pile(s) covered in storage shed(s) by May 2007	(y/n)	No

STORM WATER MANAGEMENT PROGRAM SUMMARY
TOWN OF PLAISTOW, NEW HAMPSHIRE

NPDES No. NHR04_ _ _ _
Plan for 2006-2007

Name:
Date:

BMP ID.	BMP	Responsible Dept/Person	Measurable Goal
1.0	Public Education & Outreach:		
1.3	Town Storm Water Program in Annual Town Report	Town Manager	2,000 copies distributed annually
1.5	Promoting BMP's on local cable station	Cable Committee	Information on Cable semi annually
1.6	Hazardous Household Waste Collection	Highway Department	Annually with notice in paper, cable, website
2.0	Public Participation:		
2.1	Storm Drain Stenciling	Highway Department	Develop stencil and program by Fall 05 and 50% stenciled by Fall 06
2.2	Conservation Commission promotion of water quality	Conservation Commission	Solicit public participation by news releases and cable annually
2.3	Links on Web-site (for reporting problems and deficiencies)	Town Manager	On Web Site updated annually
3.0	Illicit Discharge Detection & Elimination:		
3.1	Preparation of Master Drainage Map (Delineation of municipal storm sewer system, drainage basins, outfalls & receiving waters)	Town Manager	Delineation of outfalls to receiving waters by Summer 05
3.2	Storm sewer ordinance (Regulatory mechanism to prohibit non-storm water pollutant discharges)	Code Enforcement	Ordinance adopted by Town and reviewed annually
3.3	Qualitative observation of discharge at outfalls	Conservation Commission	Fall of 05 observation of 75% of delineated outfalls
3.4	Dry weather screening of outfalls	Conservation Commission	Fall of 05 observation of 75% of delineated outfalls
3.5	Develop program for the elimination of illicit discharges if any	Conservation Commission	Summer of 06 plan developed
3.6	Implement program for elimination of illicit discharges if any	Conservation Commission	Summer 07 action starting 09
4.0	Construction Site Runoff Control		
4.1	Preparation of Town Ordinance, to address: BMP erosion & sediment controls for all new construction, preparation of SWPP's for land disturbances greater than 1 acre, building setbacks from waters of the State and disposal of discarded building materials	Planning Department	Monitor and enforce
4.2	Develop procedures for Site Plan review of Construction Site Runoff Control	Planning Department	Monitor and enforce
4.3	Develop procedures for: Site inspection, enforcement and penalties for non-compliance	Planning Department	Monitor and enforce
5.0	Post Construction Runoff Control:		
5.1	Preparation of Town Ordinance, to address: Structural BMP's for land disturbances greater than 1 acre, and perpetual maintenance of BMP's	Planning Department	Monitor and enforce
5.2	Develop procedures for Site Plan review and review of SWPP's, including application fees	Planning Department	Monitor and enforce
5.3	Promote open drainage systems and groundwater recharge through infiltration systems	Planning Department	Monitor and enforce
5.4	Develop procedures for Site Inspection, enforcement, inspection fees.	Code Enforcement	Monitor and enforce
6.0	Good Housekeeping		
6.2	Implement Employee Training Program to include: vehicle maintenance, building maintenance, calibration of salt spreaders, hazardous materials storage, spill response and prevention, and new construction BMP's	Highway Department	Winter of 2004/5 review O&M plan and train staff. Review with staff annually.
6.3	Catch Basin and storm system maintenance	Highway Department	Clean and Inspect Catch Basins at least once every year
6.4	Annual sweeping of streets in Town	Highway Department	Sweep at least 100% of streets annually by August 1

Underwood Engineers, Inc
25 Vaughn Mall
Portsmouth, NH 03801

STORM WATER MANAGEMENT PROGRAM SUMMARY
TOWN OF PLAISTOW, NEW HAMPSHIRE

NPDES No. NHR04____
Plan for 2006-2007

Name:_____
Date:_____

BMP ID.	BMP	Responsible Dept/Person	Measurable Goal
1.0	Public Education & Outreach:		
1.3	Town Storm Water Program in Annual Town Report	Town Manager	2,000 copies distributed annually
1.5	Promoting BMP's on local cable station	Cable Committee	Information on Cable semi annually
1.6	Hazardous Household Waste Collection	Highway Department	Twice annually with notice in paper, cable, website
2.0	Public Participation:		
2.1	Storm Drain Stenciling	Highway Department	Complete 75% stenciling by Fall 07
2.2	Conservation Committee promotion of water quality	Conservation Commission	Solicit public participation by news releases and cable annually
2.3	Links on Web-site (for reporting problems and deficiencies)	Town Manager	On Web Site updated annually
3.0	Illicit Discharge Detection & Elimination:		
3.1	Preparation of Master Drainage Map	Town Manager	Delineation of outfalls to receiving waters by Summer 05 ; incorporate into GIS summer 07
	(Delineation of municipal storm sewer system, drainage basins, outfalls & receiving waters)		
3.2	Storm sewer ordinance *(Regulatory mechanism to prohibit non-storm water, pollutant discharges)*	Code Enforcement	Ordinance adopted by Town and reviewed annually
3.3	Qualitative observation of discharge at outfalls	Conservation Commission	Fall of 07 observation of 75% of delineated outfalls
3.4	Dry weather screening of outfalls	Conservation Commission	Fall of 07 observation of 75% of delineated outfalls
3.5	Develop program for the elimination of illicit discharges if any	Conservation Commission	Summer of 06 plan developed
3.6	Implement program for elimination of illicit discharges if any	Conservation Commission	Summer 07 action starting 08
4.0	Construction Site Runoff Control		
4.1	Preparation of Town Ordinance, to address:	Planning Department	Monitor and enforce
	BMP erosion & sediment controls for all new construction, preparation of SWPP's for land disturbances greater than 1 acre, building setbacks from waters of the State and disposal of discarded building materials		
4.2	Develop procedures for Site Plan review of Construction Site Runoff Control	Planning Department	Monitor and enforce
4.3	Develop procedures for Site Inspection, enforcement and penalties for non-compliance	Planning Department	Monitor and enforce
5.0	Post Construction Runoff Control:		
5.1	Preparation of Town Ordinance, to address:	Planning Department	Monitor and enforce
	Structural BMP's for land disturbances greater than 1 acre, and perpetual maintenance of BMP's		
5.2	Develop procedures for Site Plan review and review of SWPP's, including application fees	Planning Department	Monitor and enforce
5.3	Promote open drainage systems and groundwater recharge through infiltration systems	Planning Department	Monitor and enforce
5.4	Develop procedures for Site Inspection, enforcement, inspection fees,	Code Enforcement	Monitor and enforce
6.0	Good Housekeeping		
6.2	Implement Employee Training Program to include: vehicle maintenance, building maintenance/ calibration of salt spreaders, hazardous materials storage, spill response and prevention, and new construction BMP's	Highway Department	Review with staff annually.
6.3	Catch Basin and storm system maintenance	Highway Department	Clean and inspect Catch Basins at least once every year
6.4	Annual sweeping of streets in Town	Highway Department	Sweep at least 100% of streets annually by August 1

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