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Municipality/Organization: Town of Swampscott, Massachusetts

EPA NPDES Permit Number: 1064

MaDEP Transmittal Number: W-041272

Annual Report Number & Reporting Period: **No. 3: March 05-March 06**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Gino Cresta, Jr. Title: Superintendent of Public Works

Telephone #: 781.596.8860 Email: gcresta@town.swampscott.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: Andrew Maylor

Title: Town Manager

Date:

Part II. Self-Assessment

The Town of Swampscott, Massachusetts has completed the required self-assessment and has determined that, based on available information, the town is in compliance with the conditions of the permit, with the minor exception of where implementation of our minimum control measures did not meet our stated schedule documented as part of the Notice of Intent. In these instances, alternative BMPs have been performed or proposed as described below:

- BMP 1-1 – The town will continue to post stormwater information and brochure in public buildings in place of having speakers in two schools per year due to staffing shortages.
- BMP 1-2 – The town will air a stormwater video on local access television in place of having two 5-minute spots on local access cable.
- BMP 3-4 – The town has inspected 15,000 linear feet (lf) of storm drains and is looking into less expensive methods to complete the entire system.
- BMP 6-5 – The town is waiting for a response from the US Forestry regarding the tree survey and will set up a training session in the near future.
- BMP 6-7 – The town will obtain stormwater training videos for presentation to DPW staff as a component of routine operation and maintenance training.

Part IV. Summary of Information Collected and Analyzed

Storm Drain Outfall Inspections

The town located 24 stormwater outfalls discharging to Swampscott's coastal waters during permit Year 2. Overall, most of the outfalls seem to be in good condition.

Smoke Testing

Smoke testing was performed on approximately 41,150 LF of storm drain during June 2004.

Through dye testing it was confirmed that suspected connections actually discharge to the proper location and are not considered illicit connections.

Television Inspection

Approximately 15,000 LF of storm drains were television inspected between July and August 2004.

Dry Weather Sampling

Dry weather sampling was completed in December 2003 and July 2004. The samples were analyzed for fecal coliform at a state-certified laboratory.

The Board of Health samples waters off from local beaches on a regular basis during the summer.

Dry weather samples were obtained by DEP in Spring 2006. We are awaiting the results.

Manhole Inspections

A select group of sewer manholes with underdrains were inspected in 2005 to identify the status of underdrain connections. A total of 41 manholes in subareas 2, 3A, 3B, 4 and 5A were inspected.

Part III. Summary of Minimum Control Measures

TOWN OF SWAMPSCOTT, MASSACHUSETTS
NPDES Stormwater General Permit

Stormwater Management Program Summary

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Duration	Progress on Goal(s) - Permit Year Three	Planned Activities - Permit Year Four
1. Public Education						
1-1	Speakers	Superintendent of Public Works	Call two schools per year	Spring and Fall for the permit term	Posted 10 stormwater posters in public buildings (library, schools, Town Hall and DPW yard). Will continue through permit term.	Stormwater posters posted throughout term.
1-2	Local cable access spots	Superintendent of Public Works	Produce two 5-minute spots	Year 2 and 4	Obtained stormwater education video from EPA.	Will air video on local cable access channel.
2. Public Participation						
2-1	Public notification	Superintendent of Public Works	Posting of all appropriate meetings	Permit term	All DPW meetings (twice per month) are posted at Town Hall and advertised in local newspaper.	Continue to post notice of appropriate meetings.
2-2	Household hazardous waste collection	Health Director	One collection per year	Permit term	Household hazardous waste collection day was held June 25, 2005 in conjunction with Town of Marblehead.	Household hazardous waste collection day June 10, 2006,
2-3	Stencil catch basins that drain to sensitive areas	Superintendent of Public Works	Stencil fifty (50) basins per year	Spring of year 2 and 4	Catch basin stenciling performed by local Eagle Scout Troop on July 23, 2005. Approximately 60 catch basins stenciled.	Coordinate one catch basin stenciling day with a volunteer group. Approximately 50 catch basins to be stenciled.
2-4	Seedlings for Arbor Day	Superintendent of Public Works / Tree Warden	Ten (10) seedlings per year for two (2) years	Spring of year 2 and 5	Twenty seedlings in Nursery, Planted one ceremonial tree on Arbor Day, April 28, 2005.	Plant on Arbor Day 2007.
3. Illicit Discharge Detection and Elimination						
3-1	Map outfalls and receiving waters	Superintendent of Public Works	Updated map by the end of the second year	Year 1 and 2	In compliance	No activity planned.
3-2	Stormwater bylaw	Superintendent of Public Works	Draft completed in time to submit to town meeting	Winter Year 1, Spring Year 2, 3, 4, and 5	Presented bylaw to town officials for review and modification.	Make edits based on town officials' reviews and present for enactment in Fall 2006.
3-3	Dry weather screening of outfalls	Superintendent of Public Works	Two rounds of sampling in 2004	Summer and Fall of Year 1, 4, and 5. Spring and Summer Year 3	The Board of Health takes samples from beach areas during the Summer.	Continue to investigate sources of high bacterial counts.
3-4	Illicit discharge elimination	Superintendent of Public Works	Televise the entire system by the end of the term	Permit term	Continued inspection of remaining storm drains is cost prohibitive. Currently investigating less expensive options.	Evaluating other options for evaluating storm drains using Aqua Zoom/Inframetrix.

TOWN OF SWAMPSCOTT, MASSACHUSETTS
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Stormwater Management Program Summary

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Duration	Progress on Goal(s) - Permit Year Three	Planned Activities - Permit Year Four
4. Construction Site Runoff Control						
4-1	Construction site bylaw and ordinance	Planning Board, Building Inspector, DPW, ERAC	Present draft bylaw to town meeting in 2004	Winter Year 1, Spring Year 2	Presented bylaw to town officials for review and modification.	Make edits based on town officials' reviews and present for enactment in Fall 2006.
4-2	Public Comment	ZBA, ConComm, Planning Board, DPW	Receive input on draft bylaw at public meetings	Permit term	Received input at various public meetings.	Continue to receive input at public meetings.
4-3	Review site plans	Building Inspector, DPW, ZBA, ConComm	Add stormwater management to scope of review	Winter and Spring Year 2	In compliance, continue to review site plans for stormwater program compliance.	Continue to review site plans for stormwater program compliance.
4-4	Enforcement Procedures	Planning Board, ConComm	Notification to the boards about enforcement procedures	Spring and Summer Year 2	Developed draft enforcement procedures and presented to town officials for review.	Make edits based on town officials' reviews and present for enactment in Fall 2006.
5. Post Construction Runoff Control						
5-1	BMP manual	DPW, ConComm	BMP manual selected	Winter Year 2	In compliance, continue to recommend BMP manual to local developers.	Continue to recommend BMP manual to local developers.
5-2	Runoff controls	Superintendent of Public Works	Draft bylaw to town meeting	Winter Year 1, Spring Year 2, 3, 4, and 5	Presented bylaw to town officials for review and modification.	Make edits based on town officials' reviews and present for enactment in Fall 2006.
6. Municipal Good Housekeeping						
6-1	Sensitive areas	Superintendent of Public Works	Identify and map sensitive areas	Fall and Winter Year 1	Received information regarding sensitive areas through stormwater management plan activities. Located areas on drainage map.	No activity planned.
6-2	Clean catch basins	Superintendent of Public Works	Clean catch basins every other year, maintain records	Permit term	Cleaned approximately 85% catch basins townwide in 2005.	Continue to clean catch basins yearly.
6-3	Sweep streets twice per year	Superintendent of Public Works	Sweep each street twice per year	Permit term	All streets were swept twice during permit Year 3 and as needed.	Continue to sweep each street twice per year and as needed.
6-4	Continue no pesticide policy	Superintendent of Public Works	No pesticide use on town property	Permit term	No pesticides were used on town property.	Continue no pesticide policy.
6-5	Tree survey	Superintendent of Public Works / Tree Warden	Complete survey and long term forestation plan	Fall and Winter Year 2	Contacted the US Forestry Service to arrange a Swampscott tree survey.	Will continue to pursue the tree survey through the US Forestry. Complete the survey and develop long term forestation plan.

TOWN OF SWAMPSCOTT, MASSACHUSETTS
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Stormwater Management Program Summary

BMP ID #	Best Management Practice	Responsible Person / Department	Measurable Goal	Duration	Progress on Goal(s) - Permit Year Three	Planned Activities - Permit Year Four
6-6	Implement long-term forestation plan	Superintendent of Public Works / Tree Warden	Implement long-term forestation plan	Permit term	Planted 40 trees throughout town.	Continue to implement long-term forestation plan.
6-7	Provide training to DPW staff	Superintendent of Public Works	Two training days per year	Winter for the permit term	Researched availability of stormwater training videos.	Obtain stormwater training videos and present to DPW staff.
6-8	Place additional barrels for pet waste collection in parks	Superintendent of Public Works	Place additional barrels in parks as needed	Spring and Summer Year 2	Purchased and installed 6 pet waste stations in various public locations.	No activity planned.
6-9	Maintain covered salt storage; calibrate salt spreaders annually	Superintendent of Public Works	Maintain salt storage shed, and calibrate salt spreaders, as needed	Permit term	Calibrated salt spreaders Fall 2004. No maintenance to storage shed.	Improvement to salt storage shed over the next 3-4 years. Calibrate salt spreaders as needed.

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Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

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

Legal/Regulatory

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

Accompanying Regulation Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

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	(%)	
% of population on septic systems	(%)	

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)	