

Municipality/Organization: Swansea

EPA NPDES Permit Number:

MaDEP Transmittal Number: W-

**Annual Report Number
& Reporting Period:** **No. 4: March 06-March 07**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: James A. Kern Title: Town Administrator

Telephone #: 508-678-2981 Email:

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: James A. Kern

Title: Town Administrator

Date:

Part II. Self-Assessment

The Town of Swansea has made progress in its review of stormwater issues within the Town. All new construction projects over 1 acre are reviewed for compliance with Massachusetts' DEP Stormwater Policy before approval by the Swansea Planning Boards and Conservation Commission. This includes subdivisions and commercial building projects.

The Swansea Highway Department has instituted a program of an annual review of each outfall and drainage structure on all public roadways. Any structure which is not functioning properly is cleaned and restored to proper working order. All detention ponds are checked annually to ensure proper function and storage capacity for all storms. During this review, any illicit discharges into any structure are ordered removed.

The Town of Swansea continues to develop a solid waste program which includes the bi-annual collection of household hazardous waste. This program has expanded to include tires, propane tanks, and car batteries. Our next event in April of 2008 is planned to include electronics such as monitors, computers, and televisions.

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
1 Revised	Add stormwater information and links to the Town’s website	Conservation Agent/Planner	Post information by the end of year 5 provided the town has Developed an official website	Storm water information being developed in a form which will allow inclusion on web site if one is ever developed	Continue to develop the information in a form which will allow the inclusion on the web site.
2 Revised	Develop informational brochure on storm water program	Conservation Agent/Planner	Provide and maintain copies at the Library by the end of Year 2 (pending funding availability)	Storm water information being developed in a form which can be included in a brochure.	Continue to develop the information in a form which will allow the inclusion in a brochure.
3 Revised	Distribute informational brochure via bulk mail to Town Residents	Conservation Agent/Planner	One mailing per year over the 5-year permit term (pending funding availability)	Storm water information being developed in a form which can be included in a brochure. No funding for distribution this year at this time.	Continue to develop the information in a form which will allow the inclusion in a brochure.
4 Revised	Broadcast the public meetings described below under BMP ID#5 over the local cable access channel	Board of Selectmen’s Office	Three public meetings over the 5-year permit term	Repeated public broadcast of video on stormwater construction during spring and summer months, 2006	Continue to develop programs for presentation at public meetings.
Revised					
1a. Additions					

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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
5	Conduct public meetings to describe the Town's stormwater program and receive input from the public.	Board of Selectmen's Office	Three public meetings over the 5 year permit term	Informational meeting regarding the stormwater program was held at the public Board of Selectmen's meeting of February 11, 2006 . This meeting was taped and broadcast over the cable network for several weeks. .	Continue to develop programs for presentation at public meetings.
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
6	Map stormwater drainage system and outfalls	Highway Department	Map 20% of the system per year (pending funding availability)	At least 50% of the town's stormwater system has been mapped	Continue program of mapping town's system if funds become available.
Revised					
7	Develop GIS database of the drainage system	Highway Dept	Map 20% of the system per year (pending funding availability)	GIS Stormwater to be integrated into the Town GIS system which is being developed	Continue mapping of town's stormwater system as monies become available for this purpose.
Revised					
8	Visually inspect outfalls for dry weather flows	Board of Health/ Highway Dept	Inspect all outfalls.	All outfalls which have been mapped were inspected. Reports of any illicit discharges are maintained. Property owners contacted to remove pipes.	Outfalls inspected yearly. Continue program of monitoring pipes.
Revised					
9	Develop a sampling and analysis program for sampling outfalls.	Board of Health	Complete by end of year 1	BOH is still developing the sampling program. A program for a limited area has been established. The BOH has had funding limitations.	Continue to develop program and seek funding for the sampling
Revised					
10	Conduct storm water sampling at suspected outfalls.	Board of Health	Years 1 through 2, Investigate Comptons Corner Area – Years 3 –4 Investigate other suspected illicit connections	Comptons Corners investigation has been completed BOH sampled several other outfalls for suspected e-coli over the course of the year.	Board of Health to develop program for other suspected outfalls.
Revised					
11	Train Highway Dept. employees to recognize illicit connections	Highway Department	Conduct Annual training	Trained Highway Department employees using visual and olfactory senses, report potential illicit connections which are jointly re-inspected by Highway Dept Director and Board of Health	Continue with program of trained Highway Department employees to report potential illicit connections which are jointly re-inspected by Highway Dept and Board of Health
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
12	Update Town bylaws and regulations to include storm water ordinances	Conservation Agent/Planner	Year 1 – Review existing by-laws Year 2 Propose changes Year 3 implement changes, subject to Town meeting approval	Reviewed existing by laws and proposed by-laws. Developing Stormwater by-law for town meeting approval	Propose changes for town meeting approval
Revised					
13	Develop an ordinance requiring developers to prepare an Erosion and Sedimentation Control Plan for all sites disturbing more than 1 acre. Require that the plan be reviewed and approved by the Planning Board	Conservation Agent/ Planner	Year 1 – Review existing by-laws Year 2 Propose changes Year 3 implement changes, subject to Town meeting approval	Reviewed existing by laws and proposed by-laws. Developing stormwater/erosion control by-law for town meeting approval.	Propose changes for town meeting approval
Revised					
14	Periodically check erosion control measures and construction material management on-site inspection	Town Planner/Highway Department Conservation Commission	Keep stormwater within boundaries of new construction sites via erosion control system and treatments	Conservation Commission implemented policy of stormwater control for all jurisdictional construction projects. Continues to seek enforcement action against violators. Highway Department inspects all erosion control affecting town roadways. Contracted engineer inspects within new subdivisions	Conservation Commission will continue stormwater policy in Order of Conditions for jurisdictional projects. Highway Department inspects all erosion controls affecting town roadways, notifying responsible party to clean spills and overflows. Contracted engineer inspects within new subdivisions
Revised					
Revised					

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
15	Develop an Ordinance requiring stormwater controls for all new and redevelopment projects disturbing more than 1 acre	Conservation Agent/Town Planner	Year 1 Review existing by-laws & regulations Year 2 Propose changes Year 3 Implement changes subject to town meeting approval	Reviewed existing by laws and proposed by-laws. Developing stormwater/erosion control by-law for town meeting approval.	Review proposed changes to regulations for presentation to Town Meeting
Revised					
16	Inspect and maintain the storm water controls required under BMP ID #15	Building Inspector, Town Planner, Highway Dept., Home Owner Association Commercial Property Owners	Inspect and maintain storm water controls annually (pending funding)	Inspected as many catch basins, detention ponds, and storm water controls as possible with town funds. Cleaned all catch basins, noted all deficiencies Repaired structurally unsound basins	Continue to inspect as many existing and newly added catch basins, detention ponds and storm water controls as possible with town funds Clean all catch basins, note deficiencies, repair structurally deficient catch basins.
Revised					
Revised					

5a. Additions

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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
17	Street sweeping	Highway Department	Keep ice and snow control sediments from entering drainage structures	Conduct a program of sweeping the streets of the town at least once per year	Continue street sweeping program
Revised					
18	Catch basin cleaning	Highway Department	Remove sediments from stormwater structures	Conduct a program of cleaning the catch basins of the streets of the town at least once per year	Continue a program of cleaning the catch basins of the streets of the town at least once per year
Revised					
19	Purchase new vacuum truck to augment existing mechanical catch basin cleaner	Highway Department	Purchase by end of Year 5 (pending finding availability)	Plan to lease a vacuum truck if funding a purchase not feasible.	Purchase vacuum truck by end of Year 5 (pending finding availability) or lease a unit for use as necessary
Revised					
20	Yard waste Program	Highway Department	Divert yard waste from solid waste stream	Conduct weekly curbside pickup except during winter months	Continue weekly curbside pickup except during winter months
Revised					
21	Household Hazardous Waste program	Solid Waste Committee, Fire, Highway and Conservation	Hold bi-annual collection days	Swansea Household Hazardous Waste Collection Day conducted on April 22, 2006 through Clean Harbors Next HW Collection day scheduled for April 19, 2008.	Publicize plan for Household Hazardous Waste day every other year.
Revised					
22	Animal control program	Animal Control Officer	Track the number of dead animals collected	Number of dead animals collected are tracked in daily logs	Continue to track the number of dead animals collected on a daily basis
Revised					

23	Implement and maintain the Highway Dept's Storm Water Pollution Prevention Plan (SWPPP)	Highway Dept	Maintain SWPPP at Highway garage	Separate all materials held in Dept yard	Continue the program of SWPPP at Highway Garage
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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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
24 Revised	TMDL has been finalized for Kickamuit River in Swansea..			Swansea Wastewater Committee is developing wastewater plan with consultant and seeking funding for same.	Swansea Wastewater Committee will continue to develop a wastewater plan with consultant and seeking funding for same.
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)	N
Annual program budget/expenditures	(\$)	N/A

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	50%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y 2 miles
Household Hazardous Waste Collection Days April 2006 see attached report		
▪ days sponsored	(#)	1
▪ community participation	(%)	10%
▪ material collected	(tons or gal)	4300 gal
School curricula implemented	(y/n)	N

Legal/Regulatory

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

Mapping and Illicit Discharges

Estimated or actual number of outfalls	N/A	
System-Wide mapping complete	65%	
Mapping method(s)		
▪ Paper/Mylar		
▪ CADD		
▪ GIS	X	
Outfalls inspected/screened	All	
Illicit discharges identified	2	
Illicit connections removed	2	
% of population on sewer	0	
% of population on septic systems	100	

Construction

Number of construction starts (>1-acre)	13	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	57	
Site inspections completed	149	
Red Maple, Titania, Ryans Way, Sunnyfield, James Birch, East Meadow, Stephen French, Wilbur Ave., Raymond Allard, Conway, Holiday Inn, Tradesman, White Rock,		
	0	
Complaints/concerns received from public	8	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	100	
Site inspections completed	6	
Estimated volume of stormwater recharged		

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	1	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	1 - 2	
Total number of structures cleaned	1538	
Storm drain cleaned	600 ft	
Qty. of screenings/debris removed from storm sewer infrastructure	8200 tons	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Recycle	
Cost of screenings disposal	0 (Barter)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	1	
Average frequency of street sweeping (commercial/arterial or other critical streets)	2	
Qty. of sand/debris collected by sweeping	960 tons	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Roadway base/shldr	
Cost of sweepings disposal	0 (Barter)	
Vacuum street sweepers purchased/leased	0	
Vacuum street sweepers specified in contracts	0	

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

Anti-/De-Icing products and ratios	33% NaCl 0% CaCl ₂ 0% MgCl ₂ 0% CMA 0% Kac 0% KCl 67% Sand	
Pre-wetting techniques utilized	N	
Manual control spreaders used	Y	
Automatic or Zero-velocity spreaders used	N	
Estimated net reduction in typical year salt application	0%	
Salt pile(s) covered in storage shed(s)	Y	