MAR 041064 A.H.

Hand-enter Your Transmittal Number

W 041272
Transmittal Number

Your unique Transmittal Number can be accessed online: http://www.state.ma.us/scripts/dep/trasmfrm.stm or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.
2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.
3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to DEP, P.O. Box 4062, Boston, MA 02211

For DEP Use Only
Permit No._____
Rec'd Date_____
Reviewer

A. Permit Information

BRP WM08A
Permit Code: 7 or 8 character code from permit instructions

NPDES Stormwater General Permit MS4s
Name of Permit Category

NPDES for MS4s
Type of Project or Activity

B. Applicant Information – Firm or Individual

Town of Swampscott
Name of Firm - Or, if party needing this approval is an individual enter name below:

Maylor
Last Name of Individual

Andrew
First Name of Individual

MI

22 Monument Avenue
Street Address

Swampscott
City/Town

MA
State

01907
Zip Code

781-596-8860
Telephone # and extension

Silvio J. Baruzzi
Contact Person

sbaruzzi@town.swampscott.ma.us
e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Town of Swampscott
Name of Facility, Site or Individual

DEP Facility Number (if Known)

Federal I.D. Number (if Known)

22 Monument Aveune
Street Address

e-mail address (optional)

Swampscott
City/Town

MA
State

01907
Zip Code

781-596-8860
Telephone # and extension

D. Application Prepared by (if different from Section B)

Name of Firm Or Individual

Address

City/Town

State

Zip Code

Telephone # and extension

Contact Person

LSP Number (21E only)

E. Permit - Project Coordination

Is this project subject to MEPA review? ☐ yes ☐ no If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit: EOEA file number _____
Is an Environmental Impact Report Required? ☐ yes ☐ no
Is this application part of a larger project for which two or more DEP permits are being or will be sought? ☐ yes ☐ no

List any other DEP permits that apply to this project:

Permit Category	**Date of Submission** (tentative or actual)	**Transmittal #** if application already submitted

JUL 30 2003
MUNICIPAL ASSISTANCE UNIT

F. Amount Due

Special Provisions:

☒ Fee Exempt* (city, town or municipal housing authority)(state agency if fee is $100 or less)
☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c)
☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10)

*There are no fee exemptions for 21E, regardless of applicant status

Check Number _____ Dollar Amount _____ Date _____

Please make check payable to the Commonwealth of Massachusetts and mail check and one copy of this form to:
DEP, P.O. Box 4062, Boston, MA 02211

Notice of Intent for Coverage Under an NPDES General Permit for Storm Water Discharges from SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

A. Small MS4 OperatorlOwner Information

Name:__Silvio J. Baruzzi, Superintendent of Public Works, Town of Swampscott Department of Public Works___ Phone: (781) 596-8860

Mailing Address:

22 Monument Avenue, City Swampscott___ State: __MA__ Zip:__01907-1977

B. Small MS4 Location Information

1. MS4 Name: ____Town of Swampscott, Massachusetts

2.a. City(ies): _____Town of Swampscott, Massachusetts

b. County(ies): Essex_____

c. State: MA

d. Latitade of MS4 centroid: N 42 29'53" e: Longitude of centroid W7O 51' 53"

f. Acreage of land area draining to the M54: 2900_acres

3. a. Permit Applicant: Federal State Tribal Private

b. Is the MS4 located on Indian country Lands? Yes No x

4. Additional MS4 Requirements:

a. Based on the instructions provided in Addendum A of the Small MS4 General Permit, have the eligibility criteria for "listed species" and critical habitat been met? x Yes No

b. Based on the instructions proviede in Addendum B of the Small MS4 General Permit, have the eligibility criteria for protection of historic properties been met? x Yes No

Other public entity x

C. Does the MS4 discharge storm water into receiving water(s) I x Yes No If yes, list the name(s) of the receiving waters.

Names of Receiving Waters (presently known) Listed as Impaired? Impairment

Yes No

1. Nahant Bay NO

2. Massachusetts Bay No

E. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervi

Print Name Silvio J. Baruzzi, Town Engineer

Signature: Silvio J. Baruzzi

Date: 29 July 2003

JUL 30 2003

MUNICIPAL ASSISTANCE UNIT

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

W 041272
Transmittal Number

BRP WM 08A NPDES Stormwater General Permit

Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

Facility ID (if known)

A. Instructions

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

Submission of this Notice of Intent constitutes notice that the entity named at item B1. of this form intends to be authorized by the DEP General Permit issued jointly with EPA for stormwater discharges from the small municipal separate storm sewer system (MS4), in the location identified at item B2. of this form. Submission of the Notice of Intent also constitutes notice that the party identified at item B1. has read, understands and meets the eligibility conditions of Part I.B. of the NPDES Small MS4 General Permit, agrees to comply with all applicable terms and conditions of the NPDES Small MS4 General Permit, and understands that continued authorization to discharge is contingent on maintaining eligibility for coverage. **In order to be granted coverage, all information required on BRP WM 08A, including the Stormwater Management Program Summary and Time Frames form, must be completed. Please read the permit and make sure you comply with all requirements, including the requirement to develop and implement a stormwater management program.**

B. Applicant Information

1. Small MS4 Operator/Owner Information:

Town of Swampscott — SILVIO BARUZZI
Name

22 Monument Avenue
Mailing Address

Swampscott — MA
City/Town — State

781-596-8860
Telephone Number — Email (if available)

2. Municipality Name

Swampscott
City/Town

3. Legal Status:

☐ Federal ☒ City/Town ☐ State ☐ Tribal ☐ Private

☐ Other public entity: _____
Specify Public Entity

4. Other regulated MS4(s) within municipal boundaries:

Unknown

5. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for "listed species" and critical habitat been met?

☒ yes ☐ pending ☐ no

JUL 30 2003
MUNICIPAL ASSISTANCE UNIT

B. Applicant Information (cont.)

6. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for protection of historic properties been met?

☒ yes ☐ pending ☐ no

Note: Section C may be duplicated to accommodate a larger list of receiving waters

C. Names of (Presently Known) Receiving Waters

Receiving Water:	No. of Outfalls	Listed as Impaired?	Impairment
Nahant Bay (Name)	3 (Number)	☐ Yes ☒ No	Specify
Massachusetts Bay (Name)	4 (Number)	☐ Yes ☒ No	Specify
Stacey Brook (Name)	1 (Number)	☐ Yes ☒ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify
Name	Number	☐ Yes ☐ No	Specify

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

W 041272
Transmittal Number

BRP WM 08A NPDES Stormwater General Permit

Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

Facility ID (if known)

D. Stormwater Management Program Summary

1. Public Education:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
1-1	Speakers	Superintendent of Public Works	Call two schools per year
1-2	Local Cable Access spots	Superintendent of Public Works	See Attached

2. Public Participation:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
2-1	Public Notification	Superintendent of Public Works	Posting of all appropriate meetings
2-2	Household Hazardous Waste Collection	Health Director	One collection per year
2-3	Stencil Catchbasins that drain to sensitive areas	Superintendent of Public Works	Stencil fifty basins per year.
2-4	Seedlings for Arbor Day	Superintendent of Public Works/ Tree Warden	Ten seedlings per year for two years

D. Stormwater Management Program Summary (Cont.)

3. Illicit Discharge Detection and Elimination:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
3-1	Map outfalls and receiving waters	Superintendent of Public Works	Updated map by the end of the second year
3-2	Storm Sewer Bylaw	Superintendent of Public Works	Draft completed in time to submit to town meeting
3-3	Dry weather screening of outfalls	Superintendent of Public Works	Two rounds of sampling in 2004
3-4	Illicit Discharge elimination	Superintendent of Public Works	Televise entire system by the end of the term.

4. Construction Site Runoff Control:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
4-1	Construction site ordinance	Planning Board, Building Inspector, DPW, ERAC	Present draft ordinance to town meeting in 2004
4-2	Public Comment	ZBA, Con.Com., Planning Board, DPW	Receive input at public meetings
4-3	Review Site Plans	Building Inspector, DPW, ZBA, Con.Com.	add storm water quality to scope of review
4-4	Enforcement Procedures	Planning Board, Con.Com.	Notifiacation to the boards about enforcement procedures

D. Stormwater Management Program Summary (Cont.)

5. Post Construction Runoff Control:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
5-1	BMP Manual	DPW/ Con. Com.	BMP Manual selected
5-2	Runoff Controls	Superintendent of Public Works	Draft ordinance to town meeting

6. Municipal Good Housekeeping:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
6-1	Sensitive Areas	Superintendent of Public Works	identify and map sensitive areas
6-2	Clean Catch Basins	Superintendent of Public Works	Clean catch basins every other year- maintain records
6-3	Sweep streets twice per year	Superintendent of Public Works	Sweep each street twice per year
6-4	Continue no pesticide policy	Superintendent of Public Works	No pesticide use on town property
6-5	Tree Survey	Superintendent of Public Works/ Tree Warden	Complete survey and long term forestation plan

D. Stormwater Management Program Summary (cont.)

7. BMPs for Meeting TMDL:

BMP ID #

Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

BMP ID #

Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

BMP ID #

Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

BMP ID #

Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

BMP ID #

Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

E. 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, I certify that 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.

Andrew Maylor, Town Administrator
Printed Name

Signature

29 July 2003
Date

BMP ID#	BMP		
	Public Eductaion	Responsible Dept./Person	Measurable Goal
#1-1	Water&Sewer staff to make speakers available for classroom discussion or tours	Superintendent of Public Works	Call 2 schools per year to notify
#1-2	Five.minute news spot about stormwater produced and broadcast on local television	Superintendent of Public Works	One news spot in year two and four
	Public Participation:		
#2-1	Follow public notification auidelines for public meetings.	Superintendent of Public Works	Post mtgs on bulletin boards and newspaper
#2-2	Annual Household Hazardous Waste Day and Used Oil Collection	Superintendent of Public Works	1 haz waste day/yr
#2-3	Youth group to stencil or install plaques at catchbasins, priority near dog walking areas and sensitive receptors	Superintendent of Public Works	50 catch basins stenciled per year for 2 years
#2-4	Provide seedlings to youth group for planting in conservation areas on Arbor Day	Superintendent of Public Works	10 trees per year for 2 years
		Tree Warden	
	Illicit Discharae Detection & Elimination		
#3-1	Map outfalls & receiving waters	Superintendent of PublicWorks	Map completed.
#3-2	Develop and present draft storm sewer bylaw	Superintendent of Public Works	Draft storm sewer bylaw, present to Town mtg.
#3-3	Dry weather screening of outfalls	Superintendent of Public Works	Two complete rounds during first permit term.
#3-4	Develop and implement system for elimination of illicit discharges	Superintendent of Public Works	TV storm drains, eliminate illicits as found
	Construction Site Runoff Control		
#4-1	Develop and present ordinance to require erosion&sediment control plan and plan review for sites	Superintendent of PublicWorks	Draft ordinance, present to town meeting.
#4-2	Receive and consider public comment	ZBA, ConCom, Planning	Public allowed to comment at public meetins.
#4-3	Continue/Improve review procedures for site plans	ZBA, ConCom, Planning, W&S	Add stormwater quality review to req'd scope.
#4-4	Review and notify local boards and commissions of enforcement procedures.	Planning and ConCom	Review procedures, notify boards/commissions
	Post Construction Runoff Control:		
#5-1	Recommend a BMP manual for use by planners and developers	Planning Dept, ConCom, Town	BMP manual selected
#5-2	Develop ordinance to reguire runoff controls for new and re-develooment. including O&M	Superintendent of PublicWorks	Develop and present ordinance
	Good Housekeeping		
#6-1	Identify sensitive areas of stormwater discharge	Superintendent of PublicWorks	Sensitive areas identified and mapped
#6-2	Continue catchbasin cleaning program, improve record keeping	Superintendent of PublicWorks	Maintain catchbasin cleaning program, maintain records of catchbasi
#6-3	Continue to sweep each street twice each year	Superintendent of PublicWorks	Sweep each street twice per year
#6-4	Continue to use no pesticides on town property	Superintendent of PublicWorks	No pesticides used on town property
#6-5	Complete Tree Survey	Superintendent of PublicWorks	Completion of tree survey and reforestation plan
#6-6	Implement long term forestation plan	Superintendent of PublicWorks	Implementation of long term plan
#6-7	Provide training to DPW and W&S staff (I.e. spill response, vehicle mainten., BMPs)	Superintendent of PublicWorks	Two training days per year
#6-8	Place additional barrels for pet waste collection in parks	Superintendent of PublicWorks	additional barrels placed as needed
#6-9	Maintain covered salt storage; calibrate salt spreaders annually	Superintendent of PublicWorks	Shed maintained, spreaders calibrated.

		PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE				PERMIT YEAR FOUR				PERMIT YEAR FIVE				
		Spring 03	Summer 03	Fall 03	Winter 03-04	Spring 04	Summer 04	Fall 04	Winter 04-05	Spring 05	Summer 05	Fall 05	Winter 05-06	Spring 06	Summer 06	Fall 06	Winter 06-07	Spring 07	Summer 07	Fall 07	Winter 07-08	Next Permit
BMP ID#	BMP																					
#1-1	Class			x		x		x		x		x		x		x		x		x		
#1-2	News					x								x								
#2-1	Notify																					
#2-2	Haz Day																					
#2-3	Stencil						x								x							
#2-4	Trees									x								x				
#3-1	Map																					
#3-2	SS Bylaw				x	x				x				x				x				
#3-3	Screen																					
#3-4	Illicits																					
#4-1	Erosion				x	x				x				x				x				
#4-2	Public																					
#4-3	Plans																					
#4-4	Enforce																					
#5-1	Manual				x																	
#5-2	Runoff				x	x				x				x				x				
#6-1	Sensitive																					
#6-2	CBs																					
#6-3	Sweep																					
#6-4	Pesticides																					
#6-5	Tree Survey																					
#6-6	Reforestation																					
#6-7	Train				x				x				x				x				x	
#6-8	Barrels																					
#6-9	Salt																					

Executive Summary

This document presents the Stormwater Management Plan (SWMP) for the Town of Swampscott. The SWMP was developed to meet requirements of the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Phase II stormwater regulations.

Background on the Phase II Program

In 1987, the Environmental Protection Agency (EPA) amended the Clean Water Act to require a two-phased national program to address water pollution from stormwater. Phase I, promulgated in 1990, addressed stormwater discharges in approximately 900 of the nation's largest cities.

Phase II of the stormwater program was published in the Federal Register on December 8, 1999. The Phase II regulations require operators of municipal separate storm sewer systems (MS4s) located in urbanized areas with populations of fewer than 100,000 people to obtain a NPDES permit for their stormwater discharges. In Massachusetts, permits are issued jointly by EPA - Region I and the Massachusetts Department of Environmental Protection (DEP).

As determined by the 2000 census, the Town of Swampscott is an urbanized area and must obtain a NPDES permit.

Stormwater Management Plans

The central focus of the NPDES Phase II permit is the Stormwater Management Plan (SWMP). Each permittee designs its own SWMP with the goals of reducing the discharge of pollutants from the MS4 to the maximum extent practicable and protecting water quality.

To meet the "maximum extent practicable" standard, the Town must develop and implement best management practices (BMPs) for the following six minimum control measures:

- Public Education and Outreach
- Public Participation/Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-construction Stormwater Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

The BMPs are the core of the SWMP and are described in Sections 1 through 6 of this document

Existing Stormwater Programs in Swampscott

The Town of Swampscott has existing stormwater programs and BMPs that can be used to help fulfill the Phase II requirements. These include:

- Public education and outreach - providing speakers for public schools, periodic news broadcasts about sewer and drain issues.

- Public participation - annual household hazardous waste collection day, periodic tree planting programs

- Illicit discharge detection and elimination - ongoing mapping program; conducting dry weather screening of ocean outfalls during fall 2003; effective illicit connection identification program.

- Construction site runoff control — The Town of Swampscott will develop a policy for implementation and approval by town meeting.

- Pollution prevention/good housekeeping - catchbasins cleaned biannually; streets swept twice a year; pesticides not used on town property.

Supporting Documentation
EPA requires each Phase II permittee to maintain the data, records, and other documents used to develop the SWMP.

Notice of Intent
The following pages are the Notice of Intent (NOI) that will be filed with DEP and EPA -Region I. The table summarizes the SWMP, and is the only paperwork required by the permitting authorities.

Control Measure 1: Public Education and Outreach
Control Measure 1, Public Education and Outreach, requires the Town to educate its residents about the impacts of their activities on stormwater, and the impacts of polluted stormwater discharges on water quality. Educating the public about the importance of stormwater management can help lead to greater support for and compliance with the Stormwater Management Plan.

The following public education/outreach best management practices (BMPs) will be implemented to fulfill the requirements of Control Measure 1. Certain activities are required by the regulations, and several activities currently underway in the town will meet the intent of the rule.

BMPs in Swampscott's Stormwater Management plan designed to address Control Measure 1 include activities the town is already doing, such as providing speakers for classroom discussions. Additional BMPs have been added to round out the town's program, including the creation/distribution of brochures, and being available for news spots on local television. These BMPs will provide information to the public through print, television, and personal contact with town staff, thus reinforcing the message that residents can protect the quality of

stormwater with their own actions.

BMP #1-1: Water and Sewer Staff to Make Speakers Available for Classroom Discussion or Tours
Description: The Water and Sewer staff is always available for classroom discussion or tours. Staff members often are invited to speak to elementary school students. For this BMP, the staff will notify schools by phone of their availability for talks.

Measurable Goal: Call two schools per year to notify.

Schedule: The Public Works Department will notify science department chairman at the beginning of fall and spring semesters that speakers are available to make in-class presentations to the school children.

Responsible person/department: Superintendent, Swampscott Department of Public Works

BMP #1-2: Five-minute news spots about stormwater produced and broadcast on local television station
Description: Staff from the Swampscott Department of Public Works will prepare a five-minute news spot for broadcast on the local television station, or the local television will interview Water and Sewer staff. The news spot will discuss stormwater issues pertinent to Swampscott, including illegal dumping, and inform residents of the part the public plays in maintaining stormwater quality.

Measurable Goal: Two 5-minute spots during the permit term.

Schedule: During year 2 and year 4.

Responsible person/department: Superintendent, Swampscott Department of Public Works

Cost: Staff time to coordinate with television station, prepare and produce television segment.

Section 2
Control Measure 2: Public Participation

Control Measure 2, Public Participation, requires the Town to promote public involvement in implementing the Stormwater Management Plan. The following public participation best management practices (BMPs) will be implemented to fulfill the requirements of Control Measure 2. Only BMP #2-1 is required by the regulations. Combining this with several activities currently underway in the town and several new activities will meet the intent of the rule.

To address Control Measure 2, Swampscott's Stormwater Management plan includes BMPs the town is already doing, such as following public notification guidelines, holding household hazardous waste and waste oil collections, and providing trees for planting programs. In

addition, the town will coordinate a youth group to stencil or otherwise mark catchbasins in an effort to ask the public not to dump waste in or near catchbasins. Together these BMPs will get the public involved in addressing stormwater quality, and therefore give residents a personal stake in the environmental health of the town.

BMP #2-1: Follow Public Notification Guidelines for Public Meetings
Description: The Town currently follows state guidelines for public notification for public meetings. This will continue, with the Town posting notices regarding public meetings at locations in Town Hall and in local newspapers.

Measurable Goal: Post notification of meetings on bulletin boards.

Schedule: Continuously throughout permit term.

Responsible person/department: Superintendent of Public Works, holding qualifying meeting.

Cost: Minimal staff time, existing program.

BMP #2-2: Annual Household Hazardous Waste Day.
Description: The town will hold a hazardous waste collection day once a year for residents to drop off hazardous waste for proper disposal.

Measurable Goal: One hazardous waste collection day held per year.

Schedule: Hazardous waste collection day to be held in the fall, or as convenient annually.

Responsible person/department: Health Director

Cost: Varies with amounts collected.

BMP #2-3: Youth Group to Stencil or Install Plaques at Catchbasins, Priority Near Dog Walking Areas and Sensitive Receptors
Description: Staff from the Department of Public Works will help a local Boy or Girl Scout Troop, or other youth group stencil catch basins or install small plaques at catch basins informing the public of water quality issues of dumping (i.e. "Don't Dump - Drains to Ocean"). The priority catch basins will be those near high-traffic dog walking areas, Swampscott Harbor and public areas, such as the various beaches.

Measurable Goal: Fifty catch basins per year for two years.

Schedule: In spring of permit years two and four.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Approximately $50 to $100 to stencil/plaque 50 catch basins. Minimal staff time will be required to identify the priority catch basins and train the volunteers. A police detail may be

required for traffic control.

BMP #2-4: Provide Seedlings to Youth Group for Planting in Conservation Areas on Arbor Day

Description: The Town of Swampscott, through the Parks and Forestry Working Foreman, will purchase ten seedlings from the Massachusetts Tree Warden and Foresters Organization, or other qualified supplier. These seedlings will be given to a youth group, such as Boy or Girl Scouts, for planting in Conservation Areas in Town on Arbor Day.

Measurable Goal: Ten seedlings a year for two years.

Schedule: Spring of permit years three and five.

Responsible person/department: Superintendent, Department of Public Works and Tree Warden

Cost: Existing program.

Control Measure 3: Illicit Discharge Detection and Elimination

Control Measure 3, Illicit Discharge Detection and Elimination, requires the Town to map its storm drain outfalls and eliminate illicit connections from the storm drain system. The following best management practices (BMPs) will be implemented to fulfill the requirements of Control Measure 3. Certain activities are required by the regulations, and several activities currently underway in the town will meet the intent of the rule.

Swampscott's Stormwater Management plan includes activities the town is already doing to address Control Measure 3, such as mapping outfalls and receiving waters and development/implementation of an illicit connection detection and elimination program. In addition, the town will continue dry weather screening of outfalls and draft a storm sewer bylaw to allow town officials to search more effectively for illicit connections. Together these BMPs will provide Swampscott with the methods and means to track and eliminate illicit discharges to the stormwater system.

One of the requirements for cm3 is to develop an implement an information program describing the hazards associated with illegal discharges and improper disposal of wastes to public employees, businesses, and the general public. This requirement for Swampscott is covered under control measure 1, specifically BMP #1-2 (news spots on local television). Therefore, no new BMP covering this requirement is listed here.

BMP #3-1: Map Outfalls and Receiving Waters

Description: The Town of Swampscott will complete an updated map of the storm sewer system. System attributes include outfalls, pipe size and material, flow direction, manholes, and catch basins. Receiving waters are shown.

Measurable Goal: Map completed.

Schedule: The map update will be completed by the end of the second year of the permit term.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: The drainage map is projected to cost less than ten thousand dollars.

BMP #3-2: Develop and Present Draft Storm Sewer Bylaw
Description: The Department of Public Works will develop an effective draft storm sewer bylaw prohibiting illicit connections and allowing town staff to enter houses to check plumbing connections. This draft bylaw will be based upon the Town's Stormwater Policy that has been approved and adopted by the Zoning and Planning Boards. The adopted policy details responsibilities of developers in soil erosion and sediment control measures, but does not have the authority of a bylaw.

The Town Meeting must approve the draft storm sewer bylaw for it to take effect. As such, the draft bylaw will be presented to Town Meeting in the spring of 2004, and each spring thereafter until it is approved.

Measurable Goal: Draft storm sewer bylaw developed and presented to Town Meeting.

Schedule: Draft language completed winter of 2003-2004. Present draft to Town Meeting in spring of 2004, and each spring thereafter until approved.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Minimal staff time to formulate policy into a draft bylaw.

BMP #3-3: Dry Weather Screening of Outfalls
Description: Swampscott has performed dry weather field screening of outfalls that discharge to the ocean. The screening followed the EPA's "Investigation of Inappropriate Pollutant Entries into Storm Drainage Systems" recommended protocol. During the permit term, Swampscott will continue its dry weather-screening program. First, it will screen all outfalls that discharge to wetlands, brooks, and streams ("interior" outfalls). Then, once during the permit term, it will repeat the screening procedure at outfalls that discharge to the ocean and to interior outfalls.

Measurable Goal: Two complete rounds of dry weather field screening of all outfalls by the end of the first permit term.

Schedule:

Interior outfalls, first round: During low groundwater period in late summer to early fall of 2003.

Ocean outfalls, second round: During low groundwater period in late summer to early fall of

2006.

Interior outfalls, second round: During low groundwater period in late summer to early fall of 2007.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Approximately twenty outfall inspections a day can be conducted, varying with access, proximity, etc. With a two-person inspection crew of $175/hour, the cost is $70/outfall. A trained municipal crew, if available, may be less expensive.

BMP #3-4: Develop and Implement System for Elimination of Illicit Discharges
Description: Swampscott has developed a system for detection and elimination of illicit discharges. Town employees look for and notify supervisors of any illicit connections found, as well as televising the drain system looking for illicit connections. Weston and Sampson Engineers is retained to perform Storm Drain System investigation.

Measurable Goal: Televise the entire storm drainage system, removing illicit connections as they are found.

Schedule: Televise the entire storm drainage system within the first permit term, removing illicit connections as they are found.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Minimal staff time to review system already in place. Approximately $260,000 allocated for televising and cleaning projects underway.

Control Measure 4: Construction Site Runoff Control

Control Measure 4, Construction Site Runoff Control, is designed to reduce impacts to stormwater from construction sites greater than one acre in area. The following best management practices (BMPs) for construction sites will be implemented to fulfill the requirements of Control Measure 4. Certain activities are required by the regulations, and several activities currently underway in the town will meet the intent of the rule.

To address Control Measure 4, Swampscott's Stormwater Management plan includes activities the town is already doing, such as receiving public comment on local construction projects and continuing the current review procedures for site plans. In addition, the town will develop bylaws to require sediment control on construction sites greater than one acre, and review enforcement procedures for stormwater policies. Together these BMPs will maintain and improve control of runoff from construction sites in town.

BMP #4-1: Develop and Present Bylaw to Require an Erosion and Sediment Control Plan, Construction Material Management Plan, and Plan Review for Sites Greater than 1-

acre
Description: As part of the NPDES Phase 2 program, EPA requires towns to develop an bylaw requiring that sites greater than one acre have:

• an erosion and sediment control plan, and

• a plan to control other wastes such as discarded building materials, concrete truck washout chemicals, litter, and sanitary waste, and that the plans be reviewed. The bylaw should also include sanctions to ensure compliance. As there is no such bylaw currently, the town needs to develop one. Massachusetts Stormwater Management Policy Standard 8, which states that "Erosion and sediment controls must be implemented to prevent impacts during construction or land disturbance activities", could be applied to the entire town to meet this BMP. In addition, a Town Department will be identified to be responsible for plan review and enforcement of the bylaw.

Measurable Goal: Draft language for bylaw. Present draft bylaw to town meeting for approval.

Schedule: Draft bylaw in winter 2003. Present bylaw in spring 2004, and each spring thereafter until passed.

Responsible person/department: Superintendent of Swampscott Department of Public Works, Earth Removal Committee, Conservation Commission, Planning Board, Bylaw Committee, and Zoning Board of Appeals.

Cost: Staff time to tailor recommended draft bylaw language to Swampscott's specific needs, prepare and present bylaw to Town Meeting.

BMP #4-2: Receive and Consider Public Comment
Description: The public has the opportunity to comment at Town Meeting and at public hearings for activities presented to the Zoning Board of Appeals, Conservation Commission and the Planning Board. This procedure will continue. If there are any construction projects in town disturbing more than 1 acre, but not under the jurisdiction of the ZBA, Conservation Commission or the Planning Board, public comment procedures will be developed and implemented.

Measurable Goal: Procedure developed and maintained, public allowed to comment at public hearings.

Schedule: Throughout permit term

Responsible person/department: Zoning Board of Appeals, Conservation Commission and Planning Board.

Cost: Minimal cost to maintain existing procedure.

BMP #4-3: Continue/Improve Review Procedures for Site Plans

Description: Swampscott currently requires developers to hire a review engineer on behalf of the Town to ensure that all town regulations are being followed. In addition to this, the Town will require the review engineer to provide stormwater quality review and make sure Phase II issues are adequately addressed. To coordinate this work, the town could prepare a checklist of stormwater issues for developers and contractors, including proper installation, inspection and sequencing of erosion controls and management of construction materials.

Measurable Goal: Add stormwater quality review to required scope.

Schedule: Winter and Spring 2004.

Responsible person/department: Zoning Board of Appeals, Conservation Commission, Planning Boar, Building Inspector, and Department of Public Works.

Cost: Staff time to review and summarize

BMP #4-4: Review and Notify Local Boards and Commissions of Enforcement Procedures

Description: Although site inspection violation enforcement procedures exist, they are rarely implemented in Swampscott. Therefore, the procedures will be reviewed and the boards and commissions dealing with them notified of the procedures.

Measurable Goal: Notify Swampscott Boards and Commissions of site inspection violation enforcement procedures.

Schedule: Spring to Summer of 2004.

Responsible person/department: Planning Board and Conservation Commission

Cost: Staff time to review, summarize (brief summary memo or copy of relevant pages from bylaws) and distribute information.

Control Measure 5: Post-construction Stormwater Management in New Development and Redevelopment

Control Measure 5, Post-construction Stormwater Management in New Development and Redevelopment, is designed to protect stormwater quality from new development and redevelopment disturbing more than one acre of land. The following best management practices (BMPs) for new development and redevelopment will be implemented to fulfill the requirements of Control Measure 5. Certain activities are required by the regulations, and several activities currently underway in the town will meet the intent of the rule.

To address Control Measure 5, Swampscott's Stormwater Management plan includes development of an bylaw to require runoff controls and selection/recommendation of a BMP manual for developers. Although Swampscott has very limited opportunity for new

development, these BMPs will allow the town to better control stormwater runoff from redevelopment projects.

BMP #5-1: Recommend a BMP Manual for Use by Planners and Developers Description: The Town will select a manual to recommend for planners and developers to use. Examples of appropriate manuals include the **US EPA's Menu of BMPs www.epa/gov/npdes/menuofbmps) and MA DEP's**

Stormwater Technical Handbook

Measurable Goal: BMP manual selected.

Schedule: Winter 2004.

Responsible person/department: Department of Public Works and Conservation Commission

Cost: Minimal staff time to review available manuals and select one for recommendation.

BMP #5-2: Develop Bylaw to Require Runoff Controls for New and Re-Development, including Requirements for Long Term Operations and Maintenance
Description: The regulations require stormwater runoff controls in new developments and in re-development projects disturbing more than one acre of land. As Swampscott does not currently have such an bylaw, draft language will be developed. The bylaw will include requirements for long-term operation and maintenance of installed BMPs.

The Massachusetts Stormwater Management Policy can serve as a good guideline for managing post-construction stormwater. The draft Phase II permit recommends that Standards 1,2,3,4, and 7 of the policy be used to help fulfill the requirements of Control Measure 5. The permit requires those four standards be applied in areas within the jurisdiction of the Wetlands Protection Act. Extending this requirement to the rest of Swampscott is one potential way the Town may meet this BMP.

Measurable Goal: Draft bylaw developed and presented to Town Meeting for consideration.

Schedule: Draft bylaw developed winter 2003-2004. Bylaw presented to Town Meeting Spring 2004, and each spring thereafter until passed.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Minimal staff time to tailor recommended draft bylaw language to Swampscott's specific needs, and present to Town Meeting.

1. The Massachusetts Stormwater Management Policy, implemented as an amendment to the Wetlands Protection Act, includes nine performance standards for stormwater management, including:
2. Stormwater management systems must be designed so that post-development peak

discharge rates do not exceed pre-development rates.
3. Loss of annual recharge to groundwater should be minimized through the use of infiltration measures to the maximum extent practicable. The annual recharge from the post-development site should approximate the annual recharge from the pre-development or existing site conditions, based on soil type.
4. For new development, stormwater management systems must be designed to remove 80% of the average annual load (post-development conditions) of total suspended solids (TSS).
7. Redevelopment of previously developed sites must meet the stormwater management standards to the maximum extent practicable. However, if it is not practicable to meet all the standards, new (retrofitted or expanded) stormwater management systems must be designed to improve existing conditions.
Note that implementation of Standard 8 of the MA SMP was recommended in BMP #4-1.

Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations

Control Measure 6, Pollution Prevention/Good Housekeeping for Municipal Operations, requires the Town to develop and implement a program to prevent or reduce pollution in stormwater from municipal operations. The following pollution prevention/good housekeeping best management practices (BMPs) will be implemented to fulfill the requirements of Control Measure 6. Certain activities are required by the regulations, and several activities currently underway in the town will meet the intent of the rule.

BMPs in Swampscott's Stormwater Management plan designed to address Control Measure 1 include activities the town is already doing, such as street sweeping, catchbasin cleaning, minimizing pesticide use, and providing training for public employees. Additional BMPs have been added to round out the Town's program, including identifying sensitive areas, installing a stormwater treatment unit at the Department of Public Works, completing/implementing a reforestation plan, and installing additional waste barrels in public parks. Together these BMPs will help minimize pollution from everyday municipal operations.

BMP #6-1: Identify Sensitive Areas of Stormwater Discharge
Description: Water bodies, or sections of water bodies, that are sensitive to stormwater discharge will be identified and mapped. This might include areas near swimming beaches or sensitive habitats.

Measurable Goal: Sensitive areas identified and mapped.

Schedule: Fall to Winter 2003.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Minimal staff time to identify sensitive areas.

BMP #6-2: Continue to Clean Each Catchbasin at Least Once Every Other Year, Improve Record Keeping

Description: Swampscott's current cleaning program reaches about half of the catchbasins annually. The catchbasins that are prone to collect more debris are cleaned out more frequently. This schedule will be maintained throughout the 5-year permit term. In addition, record keeping related to catchbasin cleaning will be improved so that basins without sumps, with insufficient sumps, or in poor repair are identified. Basins requiring more frequent cleaning should also be tracked.

Measurable Goal: Maintain current catchbasin cleaning program; maintain records of catchbasin repair and cleaning requirements.

Schedule: Maintain current cleaning program throughout permit term.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: No additional costs anticipated.

BMP #6-3: Continue to Sweep Each Street Twice a Year
Description: Swampscott currently sweeps every street in the town twice a year, sweeping year-round as long as it is above freezing. Downtown streets and major arterials are swept more often. The frequent street sweeping helps remove sand in the spring and leaves in the fall. The town will continue this practice.

Measurable Goal: Sweep each street twice a year.

Schedule: Sweep each street twice a year. Sweep year-round as long as it is above freezing.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: No additional costs anticipated.

BMP #6-4: Continue to Use No Pesticides on Town Property
Description: The Town does not currently use any pesticides on town property. This will continue to be the standard operating procedure through the end of the permit term.

Measurable Goal: No pesticide use on Town Property.

Schedule: Throughout 5-year permit term.

Responsible person/department: Superintendent, Swampscott Department of Public Works

Cost: No additional costs anticipated.

BMP #6-5: Complete Tree Survey, Including Development of Long-Term Forestation Plan
Description: The Town will attempt to commission a tree survey from the United States Department of Agriculture (USDA) Forest Service and the University of Massachusetts. The

survey is to include current conditions, locations and genus of trees in the town, as well as potential locations for new trees (i.e. long-term forestation plan). As the planting of new trees can be an effective stormwater management practice, completion of the plan will benefit stormwater management in the town.

Measurable Goal: Completion of the tree survey and long-term forestation plan.

Schedule: Winter to Fall 2004.

Responsible person/department: Superintendent Swampscott Department of Public Works, and Tree Warden.

Cost: Unidentified at this time.

BMP #6-6: Implement Long-term Forestation Plan
Description: Once the long-term forestation plan is-developed, implementation of the plan is the next step. The town will begin implementation upon plan completion in fall 2003.

Measurable Goal: Implementation of Long-term Forestation Plan.

Schedule: Fall 2003 through end of permit term in Winter 2007-2008.

Responsible person/department: Superintendent Swampscott Department of Public Works, Tree Warden

Cost: Dependent upon recommendations - expected to be close to current forestation costs, and the Department of Public Works will continue to pursue grant funding through any appropriate source.

BMP #6-7: Provide Training to DPW Staff
Description: This BMP will extend training to staff in the Department of Public Works (DPW) in topics relevant to their work and stormwater management (i.e. spill response, vehicle maintenance and BMP maintenance).

Measurable Goal: Two training days per year for staff.

Schedule: Winter of years 1 through 5 of permit term.

Responsible person/department: Superintendent of Swampscott Department of Public Works;

Cost: Two days of staff time annually.

BMP #6-8: Place Additional Barrels for Pet Waste Collection in Parks
Description: Swampscott has a $50 fine for failing to pick up after one's pet Although this fine is regularly levied, proper disposal of the collected waste is occasionally found to be a problem (i.e. bags of waste in woods and in catchbasins). Stenciling of catchbasins, a BMP to be

completed as part of compliance with Control Measure 1, is expected to help with this. To support this effort, additional barrels for pet waste collection will be placed in parks.

Measurable Goal: additional barrels placed in parks as needed

Schedule: Spring - Summer 2004.

Responsible person/department: Superintendent Swampscott Department of Public Works.

Cost: Capitol costs for new barrels. Staff time for emptying the barrels. The cost will be at least partially offset by savings in time spent picking up pet waste bags from the woods and from catchbasins.

BMP #6-9: Maintain Covered Salt Storage; Calibrate Salt Spreaders Annually
Description: Swampscott has salt storage shed in which stored salt is kept covered. The town will maintain this storage shed. In addition, Swampscott will calibrate salt spreaders annually to ensure that the proper amount of salt is being applied to town streets. In addition to being better for runoff quality, minimizing overuse of salt may save the town money. The Town of Swampscott will endeavor to secure funding for the construction of a new salt shed to improve the ability to prevent contamination.

Measurable Goal: Salt storage shed maintained; Salt spreaders calibrated.

Schedule: Shed - throughout the permit term. Salt spreaders - start of winter in each permit year.

Responsible person/department: Superintendent of Swampscott Department of Public Works

Cost: Capital costs for any required repairs to salt storage shed. Salt shed construction could be about $100,000 but would only be accomplished through a grant. Minimal staff time to prepare a letter request for a grant. Minimal staff time to calibrate spreaders.

Permit Eligibility

This section assesses Swampscott's eligibility to apply for a NPDES Phase II permit with respect to endangered species, historic places, and impaired waters. As the town is eligible, as discussed below, an individual permit is not required, and Swampscott's Notice of Intent for the general permit will be submitted in July of 2003.

The Phase II rule prohibits stormwater discharges (or discharge-related activities) that "are likely to jeopardize the continued existence of any species that are listed as endangered or threatened under the Endangered Species Act (ESA) or result in the adverse modification or destruction of habitat that is designated as critical under the ESA." The rule goes on to prohibit discharges that jeopardize Essential Fish Habitats, adversely affect properties listed (or eligible) on the National Register of Historic Places, or that cause or contribute to instream exceedances of water quality standards. If a municipality does not meet these requirements, it

must apply for the more stringent individual permit, rather than the general permit.

Swampscott meets eligibility requirements for the general permit, as detailed below.

7.1 Endangered Species
[This section will need to be finalized after the final permit wording is issued. EPA and NHDES are making significant changes to the language and the requirements of the draft permit.]

According to the United States Environmental Protection Agency's (USEPA) county atlas, the following federally-listed species are found in Essex County:

• Bald eagle (bird), Haliaeetus Leucocephalus

• Small Whorled Pogonia (plant), Isotria Medeoloides

• Piping plover (bird), Charadius Melodus

Historic Places
The Town of Swampscott has the following properties registered on the National Register of Historic Places:

Sir John Humphrey House at 99 Paradise Road listed as of 1990-03-09

Olmsted Subdivision Historic District listed 2001-07-01

Swampscott Fish House on Humphrey Street listed 1985-05-16

Swampscott Railroad Depot at 10 Railroad Avenue listed 1998-08-28

Elihu Thomson House 33 Elmwood Avenue listed 1976-01-07

None of these places are impacted by Swampscott's stormwater discharges.

Impaired Waters
No water bodies that lie within or border the Town of Swampscott are listed on the Massachusetts 1998 List of Waters (303d list).

TMDLS have not been developed for these water bodies. The town will address these impaired waters through their stormwater BMPs, including

Other BMPs expected to help these impaired resources are:

• Any public education BMP (#1-x);

• Stenciling of catchbasins near dog walking areas and sensitive receptors

• Bylaws for erosion & sediment control plans and plan review (#4-1) and for runoff controls in new and re-development (#5-1);

• Mapping (#3-1) and dry weather screening of outfalls (#3-3) will be performed to ensure that no illicit connections are discharging to the impaired water bodies;

• Catchbasin cleaning (#6-2); and

• Street sweeping (#6-3).

Ocean Discharges
The Phase II rule prohibits discharges to territorial seas, the contiguous zone, and the oceans unless such discharges are in compliance with the ocean discharge criteria of 40 CFR 125 (NPDES regulations), subpart M. Subpart M stipulates the requirements for ocean discharges, and states that discharges in compliance with State water quality standards are presumed not to cause unreasonable degradation of the marine environment No further action is required by the permittee.

As Swampscott is in compliance with state water quality standards by submitting an Notice of Intent for its stormwater discharges, the town is in compliance with the rule.

Conclusions
The Town of Swampscott is in compliance with NPDES Phase II permit eligibility requirements. Application for the general permit is therefore appropriate.

Receiving Waters and Priority Resource Areas

As a part of the NPDES Phase II Notice of Intent, the town must identify receiving waters and priority resource areas. This section summarizes the identified water bodies.

Receiving Waters
Swampscott's MS4 discharges stormwater to the following receiving waters:

• Nahant Bay

• Massachusetts Bay

Priority Resource Areas

The following resource areas should be considered a priority when developing the stormwater management plan:

- Public water supplies
- Public swimming beaches
- Outstanding Resource Waters (ORWs, as designated in 314 CMR 4.00)
- Shellfishing areas
- Rivers, ponds, lakes, and coastal waters that are on the 303(d) list of impaired waters
- Coldwater fishery river segments as identified in 314 CMR 4.00

The town should indicate in the stormwater management program what stormwater controls will be implemented to protect these priority resources.

Priority resource areas in Swampscott include:

Shell Fish beds

Public swimming beaches

As described in Section 7, many Best Management Practices have been included in the stormwater management plan to specifically address the quality of stormwater into these sensitive receptors.