Municipality/Organization: Town of East Bridgewater

EPA NPDES Permit Number: MAR041109

MaDEP Transmittal Number: W- 041043

Annual Report Number & Reporting Period: **No. 2: March 04-March 05**

Received 8-23-05

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Title:

Telephone #: (508) 378-1601 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: George G. Samia

Printed Name: George G. SAMIA

Title: Town Administrator

Date: 8/18/2005

Part II. Self-Assessment

The Town of East Bridgewater has successfully implemented or begun implementation of several Measurable Goals noted in East Bridgewater's Notice of Intent. Prior to the development of East Bridgewater's Comprehensive Stormwater Management Program, including Measurable Goals, the Town had an assessment performed of current activities, programs, and regulations that could support the NPDES Phase II Stormwater program. This assessment became the basis for modifying current activities, recommending new programs, and informing town boards and departments of their obligation toward successful implementation of East Bridgewater's Comprehensive Stormwater Program.

East Bridgewater is pleased to present the following summary describing the Town's success at implementing the second year of the Town's Comprehensive Stormwater Management Program.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1	Create a Stormwater Program	Department of Public Works Planning Board Conservation Commission Board of Health Board of Selectmen	East Bridgewater will present to the public at a public meeting East Bridgewater's draft Comprehensive Stormwater Management Program.	East Bridgewater has completed *Stormwater Management Phase II Assessment Report*. Copies are available for review by town departments and the public (Y1). Town Department representatives have reviewed the requirements of East Bridgewater's IDDE program. This review included the utilization of GIS base maps, development of a storm sewer tracing application, and using the storm sewer system map to support outfall inspections and the identification of illicit or illegal discharges.	East Bridgewater will schedule a public meeting to review the progress of East Bridgewater's Comprehensive Stormwater Program.
2	Create a Stormwater Program	Department of Public Works	East Bridgewater will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of East Bridgewater's Comprehensive Stormwater Management Program, including public education and outreach.	See BMP #13	This year the Town has met with Julie Conroy of the Commonwealth Capital Program (CCP) and is going to participate in the (CCP) which has grants that are specifically aimed at stormwater activities. The Town is also considering applying for SRF funding of its Stormwater Program.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3	Address specific groups	Department of Public Works	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town Hall, Library, and Transfer Station.	The Town of East Bridgewater is in receipt of EPA educational material on disc for easy printing and distribution. Information/brochures available from the Town include: o East Bridgewater Household Hazardous Waste Day"; o Massachusetts River Restore Program"; and o "Find Out More, Riverways Program."	Brochures have been printed and made available at Town buildings.
4	Target groups likely to impact storm water	Department of Public Works	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste, and pet maintenance.	See BMP #3. The Town sends out Hazardous Waste Day Brochures for the annual Hazardous Waste Collection Day.	See BMP #3. The Town will continue to send out Hazardous Waste Day Brochures for the annual Hazardous Waste Collection Day.
5	Identify alternative information sources	Department of Public Works MIS Department	East Bridgewater will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website. www.eastbridgewaterma.org	The Town of East Bridgewater is in the beginning phase of its website and will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website.	The Town of East Bridgewater will post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website.
6	Identify alternative information sources	Department of Public Works MIS Department	East Bridgewater will also post links on its website to the Taunton River Watershed Council http://www.tauntonriver.org/	The Town of East Bridgewater has not posted links on its website to the Taunton River Watershed Council yet.	The Town of East Bridgewater will post links on its website to the Taunton River Watershed Council.

1. Public Education and Outreach (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
7	Utilize local public access channel	Department of Public Works	Public meeting notice and the meeting reviewing East Bridgewater's Comprehensive Stormwater Management Program will be posted on East Bridgewater's local access channel.	The Town of East Bridgewater Recycling Center and Hazardous Waste Day (May 8, 2004) were advertised on the local access channel.	The Town of East Bridgewater Recycling Center and Hazardous Waste Day (May 7, 2005) were advertised on the local access channel. This will be done annually.
8	Develop, conduct and document educational programs	Department of Public Works TRW Liaison	The Town of East Bridgewater will appoint a liaison to the Taunton River Watershed Council to disseminate information to the Town on TRW programs and activities.	The goal for permit year 2 was for the Town of East Bridgewater to identify and acknowledge the liaison. The liaison has not been identified yet.	Within permit year 3 the Town of East Bridgewater will identify and acknowledge the liaison.
9	Promote Household Waste Recycling	Department of Public Works Board of Health	The Town of East Bridgewater will work with the Town's contracted waste hauler and the Board of Health to continue to sponsor Regional Hazardous Waste Collection Days.	The Town of East Bridgewater holds a Hazardous Waste Collection Day annually. The event was broadcasted on local access TV, in fliers, and in the newspaper. The event was held May 8, 2004.	The Town of East Bridgewater will continue hosting this event. The event was broadcasted on local access TV, in fliers, and in the newspaper. The event was held May 7, 2005, and will be held annually.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
10	Storm drain stenciling	Department of Public Works	East Bridgewater will work with local Scout groups to develop a stenciling program. Stenciling will target East Bridgewater's subwatersheds.	The Town of East Bridgewater has considered using the Senior Center Work Program to secure assistance in storm drain stenciling. This program offers seniors a real estate tax break up to $700 in exchange for service to the Town. The program has not started yet.	The Town of East Bridgewater will consider using the Senior Center Work Program and the Eagle Scouts to accomplish this task to secure assistance in storm drain stenciling.
11	Community clean-ups	Department of Public Works East Bridgewater Conservation Commission	Town of East Bridgewater will encourage local stream team cleanups. The Town will provide notice of the event on its local access channel and website.	Permit Year 2 did not have a community clean up. The DPW has encouraged community clean ups and was prepared to assist with garbage removal but the community clean up did not come to fruition.	The Town of East Bridgewater will organize stream teams in memory of a local environmental activist and Conservation Commission member.
12	Community clean-ups	Department of Public Works	Town will provide trucks and other material to support cleanup efforts and disposal of materials.	Local residents have organized neighborhood cleanups. The Town of East Bridgewater DPW has supported by picking up and disposing bags.	The Town of East Bridgewater will continue to support this program.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
13	Inventory and mapping of storm drain system	Department of Public Works	East Bridgewater will identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of East Bridgewater's Comprehensive Stormwater Management Program, including public education and outreach.	The Town of East Bridgewater has set aside $30,000 for GIS stormwater outfall mapping work to be done in Town. The Town is currently looking into the cost of this work with an engineering firm.	The Town of East Bridgewater IDDE Plan will identify water quality issues associated with Title V failures, as well as cross connections to the storm sewer system. The IDDE Plan will identify alternatives for correction. The Town is currently reviewing options for SRF funding of this activity.
14	Mapping and identification of outfalls and receiving waters	Department of Public Works Board of Assessors	East Bridgewater will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Meeting approval of funding.	The Town of East Bridgewater has reviewed IDDE requirements with Town department representatives. This review included the utilization of GIS base maps, development of a storm sewer tracing application, and using the storm sewer system map to support outfall inspections and the identification of illicit or illegal discharges.	The Town of East Bridgewater has requested funding to support GIS mapping of storm sewer system and development of IDDE program. The Town is still discussing the mapping of outfalls and receiving waters with engineering firms.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
15	Identification/description of problem areas	Department of Public Works	East Bridgewater will develop and implement an Illicit Discharge Detection and Elimination (IDDE) plan, contingent on Town Meeting approval of funding.	The Town of East Bridgewater is completing a CWMP, which will identify water quality problem areas and provide the opportunity to develop a plan for corrections.	This activity will be undertaken in year 3, contingent on funding availability.
16	Enforcement procedures addressing illicit discharges	Planning Board Town Counsel Board of Health	East Bridgewater will review whether local authority is appropriate and able to respond to potential illicit discharges. New by-laws, if necessary, will be proposed to Town Meeting.	This BMP was not scheduled for Permit Year 2.	This BMP is scheduled for Permit Year 3 during the Fall season. The Board of Health will review whether local authority is appropriate and able to respond to potential illicit discharges. The Board of Health currently has the ability to fine property owners under non-criminal disposition charges up to $50 regarding sewer connections into the stormwater system.
17	Public information program regarding hazardous wastes and dumping	Department of Public Works Board of Health	East Bridgewater will provide educational brochures to residents within the member communities promoting proper disposal of household hazardous wastes and conditions for regional collections.	The Town of East Bridgewater holds a Hazardous Waste Collection Day annually. The event was broadcast on local access, in fliers, and in the newspaper. The event was held May 8, 2004.	The Town of East Bridgewater holds a Hazardous Waste Collection Day annually. The event was broadcast on local access, in fliers, and in the newspaper. The most recent event was held May 7, 2005.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
18	Initiation of recycling programs	Department of Public Works Board of Health	East Bridgewater will apply for funding assistance from DEP's Recycling Grant Program for assistance in public education and the purchase of recycling materials.	East Bridgewater applied for funding during Permit Year 2. The Town received some funding for labels to be applied to recycling bins and composting bins.	East Bridgewater will apply for funding during Permit Year 3.
19	Watershed assessments and studies	Department of Public Works Conservation Commission Board of Health	East Bridgewater will identify opportunities for funding assistance from DEP's 604(b) and 319 grant programs and the Department of Environmental Management's Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks can include design and installation of stormwater BMPs and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation of stormwater related problems impacting water quality in Plymouth Street Pond, Mattield River from the confluence of Beaver Brook and Salisbury Plain River, Salisbury Plain River from Brockton WWTP to confluence with Matfield River. These waterbodies have been identified as impaired an on DEP's 303d list.	The Town of East Bridgewater has not identified an appropriate funding vehicle for permit year 2.	See BMP #2 The Town of East Bridgewater will continue looking for an appropriate funding vehicle.

3. Illicit Discharge Detection and Elimination (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
20	Watershed assessments and studies	Department of Public Works Water Department	The Town of East Bridgewater will encourage the East Bridgewater Water Department to apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zones II.	The Town of East Bridgewater did not look into the availability of funds from the Water Protection Program in Permit Year 2.	The Town of East Bridgewater will ascertain the availability of funds from the Water Protection Program in Permit Year 3.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	East Bridgewater will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Town of East Bridgewater did not schedule a department workshop to review components of the Comprehensive Stormwater Management Program, including stormwater management regulations.	The Town of East Bridgewater will schedule a department workshop to review components of the Comprehensive Stormwater Management Program, including stormwater management regulations.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
22	Bylaw: Require post-construction runoff controls	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	East Bridgewater will review model by-law developed by DEP in consultation with the Attorney General's Office.	The Town of East Bridgewater did not schedule a department workshop to review components of the Comprehensive Stormwater Management Program, including stormwater management regulations.	The Town of East Bridgewater will schedule a department workshop to review components of the Comprehensive Stormwater Management Program, including stormwater management regulations.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
23	Develop a municipal Operations and Maintenance Plan	Department of Public Works	Using regulations and recommendations from DEP and EPA, East Bridgewater will develop and update an operations and maintenance plan to include proper disposal of street sweepings, catchbasin cleanout, snow disposal, roadway de-icing procedures, vehicle washing, and outside storage of materials.	The Town of East Bridgewater maintains a daily work log. An environmental audit was performed at the East Bridgewater highway facility. Audit recommendations included proper labeling and storage of hazardous materials, employee education on the handling of these materials, and closing of floor drains discharging to storm sewer system. East Bridgewater continues to adopt these recommendations. East Bridgewater has not registered the highway facility drain with DEP's UIC program.	The Town of East Bridgewater will continue O&M program. East Bridgewater will register the highway facility drain with DEP's UIC program.

6. Pollution Prevention and Good Housekeeping in Municipal Operations (cont'd)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
24	Develop a municipal Operations and Maintenance Plan	Department of Public Works	East Bridgewater will implement a formal inspection program, including maintenance logs and scheduling, for catchbasin cleaning, repairs, and new installation.	The Town of East Bridgewater inspection program includes road and catchbasin maintenance.	The Town of East Bridgewater will continue to maintain the program.
25	Develop and implement training programs for municipal employees	Department of Public Works	East Bridgewater will send a minimum of 5 public works employees annually to training seminars sponsored by MassHighway, BayState Roads, and other relevant agencies or vendors.	Town of East Bridgewater employees have participated in Bay State Roads education programs. Eight (8) employees were sent to a stormwater program provided by the Plymouth County Highway Commission to educate the workers on detecting illicit discharges to the stormwater system.	Town of East Bridgewater employees will continue to attend relevant education and training programs, including Plymouth County's presentation on components of an IDDE program.
26	Review storm drainage infrastructure needs	Department of Public Works	East Bridgewater will incorporate storm drain infrastructure review in East Bridgewater's Chapter 90 project utilizations.	Three intersection design projects that include drainage improvements have been reviewed and approved by the Conservation Commission. The Town signed a MassHighway Department contract with a contractor in July 2005 to start a contract, which incorporates stormwater infrastructure work within the roadwork.	The Town of East Bridgewater will continue to incorporate stormwater improvements within the roadway programs.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)- *NOT APPLICABLE*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
				No TMDLs in the Town of East Bridgewater	

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Summarize the results of information or data, if any, that was collected and analyzed during Permit Year 1, but was not included elsewhere in the annual report or requires further elaboration. Information and data could include results/trends from any storm or receiving water quality monitoring, assessment of particular BMP performance, or financial impact of program implementation.

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)	