Municipality/Organization: City of Revere

EPA NPDES Permit Number: MA 041057

MaDEP Transmittal Number: W- 035316

Annual Report Number
& Reporting Period: No. 4: March 2006 – March 2007

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Frank Stringi Title: City Planner

Telephone #: 781-286-8183 Email: fstringi@revere.org

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: Thomas G. Ambrosino

Title: Mayor

Date: 3/21/07

Part II. Self-Assessment

The City of Revere has completed the required self assessment and has determined that the City is in compliance with all permit conditions, except for the following provisions:

Part II. B.1 Brochures and fact sheets have not been distributed to residents and businesses. Only dog waste brochures have been mailed to pet owners. This effort has been delayed due to lack of city personnel and volunteers to help execute.

Part II. B.2 Web site must be updated to include information on storm water quality efforts that can be undertaken by residents. This effort has been delayed due to lack of personnel to initiate. This effort is planned to be on line in 2007 with the help of the MIS Director.

Part II. B.3 Storm drain stenciling program must be initiated with help from volunteers. Working with the school department to have students complete this work as part of community service requirement.

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
PE-1	Partnership program	Planning	Education and outreach program developed by summer 04	Established partnership with school dept and Saugus River Watershed Council	Continue partnership for developing new outreach programs
Revised					
PE-2	Web site creation	MIS	Create web site by 04	Meeting with MIS Director to initiate web site. Creation of web site has been delayed due to lack of city personnel to institute	Have web site on line
Revised			Create web site in 07		
PE-3	Household brochures and fact sheets	DPW	Develop and distributed to residents by summer 04	Review sample brochures for development	Finalize brochures and fact sheets
Revised			Develop and distribute to residents in 07 and 08 water and sewer bills		
PE-4	Commercial brochures and fact sheets	DPW	Distributed by summer 04	Review sample brochures for development	Finalize brochures and fact sheets
Revised			Develop and distribute to businesses in 07 and 08 water and sewer bills		
PE-5	Classroom education on storm water	Saugus River Watershed Council and School Dept.	50% of K-12 by end of 06 school year	Program initiated with school dept. and Saugus river watershed council	Continue education effort and field trips with school dept.
Revised			50% of K-12 by end of 07 school year		

Revised					

1a. Additions

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
PP-1	Watershed organizations	ConComm	Organize watershed committee within one year	Watershed committees organized for Mystic River watershed, Saugus River, and Belle Isle Marsh	Continue watershed action committees for Mystic River, Saugus River, and Belle Isle Marsh
Revised					
PP-2	Stakeholder meetings	ConComm	Hold at least two stakeholder meetings	Stakeholder meetings held with separate watershed committees for Mystic River, Saugus River, and Belle Isle marsh	Continue stakeholder meetings
Revised					
PP-3	Stream cleaning campaign	DPW/Saugus River watershed council	Hold at least two stream clean up campaigns every year	Clean up campaigns held for Town Line Brook and Eastern County Ditch	Continue clean up campaign efforts (at least two)
Revised					
PP-4	Volunteer monitoring	Saugus River and Mystic River Watershed	Complete water quality monitoring in 05	Water quality monitoring efforts undertaken for Town Line Brook, Sales Creek and Belle Isle Marsh	Continue water quality monitoring efforts
Revised					
PP-5	Storm drain stenciling	ConComm	Complete storm drain stenciling by 06	No progress made due to lack of staff	Attempt to set up volunteers
Revised			Complete storm drain stenciling by 08		
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 21 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
IDDE -1	Storm drain map	Engineering	Update storm drain map by 06	Storm drain map complete	Continue updates
Revised					
IDDE -2	Non storm water discharge ordinance	Planning	Adopt non storm water discharge ordinance by 06	Non storm water discharge ordinance adopted in 05	
Revised					
IDDE -3	Industrial/Business connections	Plumbing Inspector	Establish industrial/business connection monitoring program by summer 04	Cross connection inspection program initiated through Building Dept.	Continue cross connection inspection program through the Building Dept. and Plumbing Inspector
Revised					
IDDE -4	Illicit discharge and elimination	DPW	Establish illicit discharge and elimination program by summer 04	Illicit discharge and elimination program undertaken by DPW sewer and drain crews.	Continue illicit discharge and elimination program. The City has an rfp in place for engineering services to continue this work in 07
Revised					
IDDE -5	Illegal dumping task force	ConComm	Form an illegal dumping task force by spring 04	ConComm holding monthly inspection meetings on Saturday mornings	Continue monthly schedule
Revised					
Revised					

3a. Additions

4. Construction Site Storm water 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 3
CSRC -1	Site Plan Review	Planning	Establish site plan review standards by 04	Site plan review in place. Meetings held every Tuesday	Continue site plan review meetings every Tuesday
Revised					
CSRC -2	Sediment control ordinance	Planning	Develop erosion control ordinance by 06	Erosion control ordinance adopted in 05	
Revised					
CSRC -3	Storm water pollution prevention plan	DPW	Require storm water pollution prevention plan for all projects by 04	DPW meets every Tuesday with site plan review to discuss storm water pollution prevention measures with developers and contractors	Continue DPW participation in site plan review committee meetings
Revised					
CSRC -4	Inspection program guidelines	Building Dept.	Set up guidelines for inspection by 04	Building Inspector, City Engineer and City Planner coordinate inspection of development sites on a weekly basis	Continue weekly inspection of development sites to ensure sediment control measures are in place
Revised					
CSRC -5	BMP measures for sediment/erosion	DPW	Establish BMP measures for construction sites by 04	Site plan review conditions are being placed on new construction projects for BMP's	Continue site plan review efforts to condition BMP measures for new developments. Place conditions on building permits
Revised					
Revised					

4a. Additions

5. Post-Construction Storm water 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
PCRC -1	Construction runoff ordinance	Planning	Adopt a post construction runoff ordinance by 06	Post construction ordinance adopted in 05	
Revised					
PCRC -2	Site Plan Review	Planning	Adopt site plan review standards for post construction by 06	Site Plan Review standards in place	
Revised					
PCRC -3	Operation and maintenance agreement	DPW	Develop an operation and maintenance model agreement by 05	Site plan review conditions now require operation and maintenance agreements for BMP's developed for private sites	
Revised					
PCRC -4	Inspection program guidelines	Health Dept.	Set up inspection program for post construction runoff control by 05	Meetings held with Health Dept. to discuss inspection program and staffing	Health Inspector to coordinate staff duties and program plan
Revised					
PCRC -5	BMP measures	DPW	Establish BMP measures for post construction by spring 04	BMP measures for post construction have been included within site plan review conditions	Continue to require BMP measures for post construction within the framework of the site plan review process for development sites
Revised					
Revised					

5a. Additions

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
MGH -1	Pet waste collection	Health Dept.	Distribute pet waste brochures to pet owners by spring 04	Pet waste brochures developed and mailed to registered pet owners	
Revised					
MGH -2	Parking lot and street cleaning program	DPW	Implement a parking lot and street cleaning program by spring 04	Street cleaning program implemented in 03 from April to November	Continue street cleaning program from April to November
Revised					
MGH -3	Catch basin cleaning	DPW	Implement catch basin cleaning program by spring 04	Catch basin cleaning program implemented in 03	Continue catch basin cleaning program
Revised					
MGH -4	Road salt storage	DPW	Institute measures for road salt storage by 04	Road salt storage shed installed at DPW facility on Charger Street	Maintain road salt storage shed at DPW facility
Revised					
MGH -5	Spill response and prevention	Fire Dept.	Implement a spill response and prevention plan by 05	Spill response and prevention plan has been instituted by the Fire Dept.	Continue implementation of spill response and prevention plan
Revised					
Revised					

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
TMD L-1	Parking lot and street sweeping	DPW	Program set up by 04	Program implemented in 03	Continue program
Revised					
TMD L-2	Catch basin cleaning	DPW	Program set up by 04	Program implemented in 03	Continue program
Revised					
TMD L-3	Install deep sumps	DPW	Requirement set up for newly constructed catch basins in 04	Program implemented in 03. All new catch basins both public and private require deep sumps	Continue program
Revised					
TMD L-4	Install gas and oil separators	DPW	Requirement set up for newly constructed catch basins by 04	Program implemented in 03. All new catch basins within private parking lots require installation of gas and oil separators	Continue program requirement
Revised					
TMD L-5	Detention areas	DPW	Requirement established for large development sites by 05	Requirement implemented in 03 as part of site plan review for all large development sites	Continue program requirement
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Strict adherence to an operation and maintenance plan is essential for continued success of TMDL reductions.

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Storm water management position created/staffed	(y/n)	No
Annual program budget/expenditures	($)	Unavailable

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	5,000
Storm water management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	12
▪ community participation	(%)	Unavailable
▪ material collected	(tons or gal)	See attached
School curricula implemented	(y/n)	Yes

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	64
System-Wide mapping complete	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	0
▪ GIS	(%)	0
Outfalls inspected/screened	(# or %)	64
Illicit discharges identified	(#)	2
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	99
% of population on septic systems	(%)	1

Construction

Number of construction starts (>1-acre)	(#)	2
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	100
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and $)	0
Complaints/concerns received from public	(#)	0

Post-Development Storm water Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction storm water control	(%)	0
Site inspections completed	(# or %)	0
Estimated volume of storm water recharged	(gpy)	Unavailable

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	304
Storm drain cleaned	(LF or mi.)	16,853 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	50-60 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		RESCO
Cost of screenings disposal	($)	$50,000

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	8

Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	210
Qty. of sand/debris collected by sweeping	(lbs. or tons)	400
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Jayco
Cost of sweepings disposal	($)	$200,000
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	No

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	75%
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	No
Automatic or Zero-velocity spreaders used	(y/n)	Yes
Estimated net reduction in typical year salt application	(lbs. or %)	25%
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	No

REVERE DPW

RESIDENTIAL HAZARDOUS HOUSEHOLD PRODUCTS COLLECTION
(FOR THE CALANDAR YEAR ENDING DECEMBER 31, 2006)

Auto batteries	231 units
Tires	9 tons
CRT's	81,620 lbs
Propane tanks	582 units
Paint	36 cubic yard boxes
Waste oil	900 gallons
Used oil filters	10 – 55 gallon drums
Thermostats	2 units
Thermometers	50 units
Mercury switches	0 units