

**Municipality/Organization:** Hudson, MA

**EPA NPDES Permit Number:** MA 041198/MaDEP

**MaDEP Transmittal Number:** W-036113

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

JUN 02 2006

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Max Kamel

Title: Assistant DPW Director

Telephone #: (978) 562-9333

Email: [Mkamel@TownofHudson.org](mailto:Mkamel@TownofHudson.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.

**of Minimum Control Measures**

**and Outreach**

n	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
r to ents	DPW and SuAsCo	Flyer distributed to 75% of residents and compile survey results	Surveys was sent back to SuAsCo to compile multi-watershed-wide “survey” results	
on	Hudson School Dept and SuAsCo	Develop & distribute lesson plan to 5 <sup>th</sup> grader teachers	The School Dept. is working to implement the plan for Fall 06	
r to esses	DPW and SuAsCo	Flyer distributed to 50% of businesses & have stormwater logos displayed at business	Presentations were made to both the Rotary Club and Local Chamber of Commerce.	
lia	DPW and SuAsCo	Media info packet delivered to local media and generate 4 press releases for major media outlets	Continue development with the local media outlets.	Develop a media info packet and generate press releases in cooperation with SuAsCo
o	DPW and SuAsCo	Show storm water video @ 1 public meeting and on local cable stations	Developed a slideshow presentation. Coordinate efforts with EPA to obtain Videotape(s) to be aired at local cable stations.	Continue airing stormwater video and slideshow presentation on local cable stations

**it and Participation**

	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 3</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Permit Year 4</b>
eling	DPW and SuAsCo	Circulate display for 3 months in permit year #1	Display was presented at Town Meeting and other public activities such as RiverFest.	Continue to display at Town Meeting and other public activities such as RiverFest.
er ders	SuAsCo & Hudson School Dept	Contest is held and entries are received, judged, & displayed	Contest is postponed till Fall 06	Implementation of the contest for the fall 06
o school	SuAsCo & Hudson School Dept.	Contest is held and entries are received, judged, & displayed	Contest is postponed till September 06	Implementation of the contest for September 06
nit	DPW & SuAsCo	Hold local or multi-community summit & encourage community to attend	SuAsCo sponsored an event to promote stormwater awareness	Continue discussion with SuAsCo to sponsor another event.
r ict an lic ness	DPW & SuAsCo	Municipal participation in Summit, self-test distributed to 75% of residents, compile test results	SuAsCo sponsored an event to promote stormwater awareness	Continue discussion with SuAsCo to sponsor a similar event.

**Detection and Elimination**

n	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
outfalls ers	DPW	Map all outfalls and incorporate into GIS	Approximately 85-90% of the outfalls, CB's, and DMH's have been identified and placed on a paper map	Continue to map and incorporate into our GIS/CAD system.
ng	DPW	Locate all structures and develop rating & maintenance plan	Have started a database on all structures and outfalls identified and develop a module to adapt to the GIS system	Continue compiling the database
ement inance	DPW & Town Boards	Have an ordinance adopted within 12 months	Continued discussions with the newly hired Town Planner and Conservation Agent and work towards adopting an ordinance	Continue discussions and work towards adopting an ordinance
sses of	DPW	To inform who, what, where, and how to detect an illicit discharge	Have started developing a system of how we are going to attack the identification of illicit discharges.	Continue developing our system. Develop an educational document to distribute to employees, businesses to serve as a tool to in the illicit discharge detection.
ent an in	DPW	Review existing mechanisms and determine how to regulate illicit discharges and develop a bylaw	Discussed the implementation of a plan to detect and respond to an illicit discharge	Continue working toward the implementation of the plan.

**Stormwater Runoff Control**

1	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
on	DPW & All Boards	Have an ordinance for erosion control within 12 months	Continued working with the newly hired Town Planner and Conservation Agent and work towards adopting a sediment & Erosion ordinance	Continue working on the ordinance and look to have approved by Town.
es for	DPW & All Boards	All construction activities to submit plan for review prior to start of construction	Continued development and meeting with various boards to discuss implementation of the site plan review requirements	Continue discussion and development to implement the site plan review requirements
e	DPW & All Boards	Develop new procedures and documentation format	Continued to proceed forward with the procedures	Continue the implementation of the procedures
e	DPW & All Boards	To establish fines and penalties for non-compliance	Worked with various departments and boards to explore options.	Continue working with various departments and boards to explore options.
action	DPW & Building Dept.	Develop a Management Plan aimed at recycling	None to date	Start a discussion with the new Conservation Agent in regard the development of the management plan.

**1 Stormwater Management in New Development and Redevelopment**

n	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	DPW & All Boards		Continued working towards the implementation of the ordinance	Continued working towards the implementation of the ordinance
of	DPW		Continued the discussion about the maintenance plan	Continue working toward the implementation of the maintenance plan.
MP's	DPW		None to date	Develop database of Town's BMP's



•  
•  
•





	In Place Prior to Phase II	Under Review	Drafted	Adopted
Status (indicate with "X")				
Detection & Elimination	N	Y	N	N
ent Control	Y	Y	Y	Y
t Stormwater Management	N	Y	N	N
In Status (indicate with "X")				
Detection & Elimination	N	Y	N	N
ent Control	Y	Y	Y	Y
t Stormwater Management	N	Y	Y	N

**Charges**

	(%)	85-90
er of outfalls	(#)	100
mplete	(%)	85-90
	(%)	85-90
	(%)	60
	(%)	60
ed	(# or %)	20%
d	(#)	0
d	(#) (est. gpd)	0
	(%)	80
systems	(%)	20

street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
street sweeping (commercial/arterial or other critical streets)	(times/yr)	30
collected by sweeping	(lbs. or tons)	6000
(landfill, POTW, compost, beneficial use, etc.)	(location)	Beneficial use
total cost	(\$)	N/A
units purchased/leased	(#)	0
units specified in contracts	(y/n)	N

Use on public land of: ("N/A" = never used; "100%" = elimination)		
	(lbs. or %)	30%
	(lbs. or %)	30%
	(lbs. or %)	30%

Types and ratios	% NaCl	15%
	% CaCl <sub>2</sub>	
	% MgCl <sub>2</sub>	
	% CMA	
	% Kac	
	% KCl	
	% Sand	85%
utilized	(y/n)	N
tractors used	(y/n)	Y
applicators used	(y/n)	Y
used in typical year salt application	(lbs. or %)	0
storage shed(s)	(y/n)	Y



®Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 6/16/2005  
Date Received 6/14/2005  
Sample ID 0506-00619  
Invoice No. 95934  
Cust # H141  
Cust P.O. #

**Subject TOWN LAKE SAMPLE REC'D 6/14/05**

Sampled By: CLIENT Date 6/14/2005 Time 14:54

Test	Result	Date	Time	Tech	Method
001 Sample Collected	6/14/2005 2:54:00PM				
<b>LAKE SAMPLE</b>					

E. coli	40 per 100ml	6/14/2005	17:00	LBL	SM9213D
Temperature at Lab	16.0 Degrees C	6/14/2005	14:54	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 6/23/2005  
Date Received 6/21/2005  
Sample ID 0506-00981  
Invoice No. 96150  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE REC'D 6/21/05**

Sampled By: CLIENT Date 6/21/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	6/21/2005 9:30:00AM				
<b>CENTENNIAL BEACH</b>					
E. coli	<10 per 100ml	6/21/2005	17:20	LBL	SM9213D
Temperature at Lab	17.0 Degrees C	6/21/2005	9:30	ANR	
Temperature in Field	20.0 Degrees C	6/21/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



® Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 6/30/2005
Date Received 6/28/2005
Sample ID 0506-01310
Invoice No. 96535
Cust # H141
Cust P.O. #

Subject HUDSON CENTENNIAL BEACH SAMPLE REC'D 6/28/05

Sampled By: CLIENT Date 6/28/2005 Time 9:15

Table with columns: Test, Result, Date, Time, Tech, Method. Row 1: 001 Sample Collected 6/28/2005 9:15:00AM HUDSON CENTENNIAL BEACH. Row 2: E. coli <10 per 100ml 6/28/2005 16:35 LBL SM9213D. Row 3: Temperature at Lab N/A 6/28/2005 9:15 ANR. Row 4: Temperature in Field 68.0 Degrees F 6/28/2005 9:15 MAB.

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



® Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 7/7/2005
Date Received 7/5/2005
Sample ID 0507-00070
Invoice No. 96873
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/5/05

Sampled By: CLIENT Date 7/5/2005 Time 9:15

Test Result Date Time Tech Method

001 Sample Collected 7/5/2005 9:15:00AM
CENTENNIAL BEACH HUDSON MA

Table with 5 columns: Test, Result, Date, Time, Tech. Rows include E. coli (10 per 100ml), Temperature at Lab (13.0 Degrees C), and Temperature in Field (67.0 Degrees F).

RECEIVED
JUL 11 2005
BOARD OF HEALTH

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 7/18/2005  
Date Received 7/12/2005  
Sample ID 0507-00446  
Invoice No. 97195  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE REC'D 7/12/05**

Sampled By: CLIENT Date 7/12/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	7/12/2005 9:30:00AM				
<b>CENTENNIAL BEACH</b>					

E. coli	<10 per 100ml	7/12/2005	16:50	LBL	SM9213D
Temperature at Lab	18.0 Degrees C	7/12/2005	9:30	ANR	
Temperature in Field	65.0 Degrees F	7/12/2005	9:30	MAB	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



® Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 7/21/2005  
Date Received 7/19/2005  
Sample ID 0507-00774  
Invoice No. 97529  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE REC'D 7/19/05**

Sampled By: CLIENT Date 7/19/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected		7/19/2005	9:30:00AM		
<b>CENTENNIAL BEACH</b>					

E. coli	10 per 100ml	7/19/2005	16:50	LBL	SM9213D
Temperature at Lab	7.0 Degrees C	7/19/2005	9:30	ANR	
Temperature in Field	30.0 Degrees C	7/19/2005	9:30	ANR	

RECEIVED  
**JUL 26 2005**  
BOARD OF HEALTH

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director





® Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 7/28/2005
Date Received 7/26/2005
Sample ID 0507-01143
Invoice No. 97928
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/26/05

Sampled By: CLIENT Date 7/26/2005 Time 9:30

Table with columns: Test, Result, Date, Time, Tech, Method. Row 1: Sample Collected: 7/26/2005 9:30:00AM, HUDSON CENTENNIAL BEACH

Table with columns: Test, Result, Date, Time, Tech, Method. Row 1: E. coli, 20 per 100ml, 7/26/2005, 16:50, LBL, SM9213D. Row 2: Temperature at Lab, 18.0 Degrees C, 7/26/2005, 9:30, ANR. Row 3: Temperature in Field, 76.0 Degrees F, 7/26/2005, 9:30, MAB

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 8/4/2005  
Date Received 8/2/2005  
Sample ID 0508-00189  
Invoice No. 98315  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE REC'D 8/2/05**

Sampled By: CLIENT Date 8/2/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001. Sample Collected:	8/2/2005 9:30:00AM				
<b>HUDSON CENTENNIAL BEACH</b>					
E. coli	<10 per 100ml	8/2/2005	16:35	LBL	SM9213D
Temperature at Lab	15.0 Degrees C	8/2/2005	9:30	ANR	
Temperature in Field	24.0 Degrees C	8/2/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



® Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 8/11/2005  
Date Received 8/9/2005  
Sample ID 0508-00497  
Invoice No. 98679  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE REC'D 8/9/05**

Sampled By: CLIENT Date 8/9/2005 Time 14:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected	8/9/2005 2:30:00PM				
<b>CENTENNIAL BEACH</b>					
E. coli	<10 per 100ml	8/9/2005	17:00	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/9/2005	14:30	ANR	
Temperature in Field	27.0 Degrees C	8/9/2005	14:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION  
148 Bartlett Street  
Marlborough, MA 01752  
(508) 460-7600 Fax (508) 460-7777  
Daniel J. Ste.Marie, Lab Director  
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 8/25/2005  
Date Received 8/23/2005  
Sample ID 0508-01282  
Invoice No. 99380  
Cust # H141  
Cust P.O. #

**Subject CENTENNIAL BEACH SAMPLE 8/23/05**

Sampled By: CLIENT Date 8/23/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	8/23/2005 9:30:00AM				
<b>CENTENNIAL BEACH</b>					

E. coli	<10 per 100ml	8/23/2005	17:50	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/23/2005	9:30	ANR	
Temperature in Field	24.0 Degrees C	8/23/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director



® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

### CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH  
S. SAMUEL WONG  
TOWN HALL  
78 MAIN STREET  
HUDSON,MA 01749

Date Reported 9/2/2005  
Date Received 8/30/2005  
Sample ID 0508-01639  
Invoice No. 99811  
Cust # H141  
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE 8/30/05

Sampled By: CLIENT Date 8/30/2005 Time 13:00

Test	Result	Date	Time	Tech	Method
001 Sample Collected	8/30/2005 1:00:00PM				
<b>HUDSON BEACH</b>					
E. coli	110 per 100ml	8/30/2005	15:45	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/30/2005	13:00	ANR	
Temperature In Field	23.0 Degrees C	8/30/2005	13:00	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie  
Laboratory Director