



Haverhill

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April 24, 2007

Joy Hilton

Environmental Protection Agency
Water Technical Unit (SEW)
PO Box 8127
Boston, Massachusetts 02114

Nihar Mohanty

Massachusetts Department of Environmental Protection
Northeast Regional Office
One Winter Street, 5th Floor
Boston, MA 02108-4747

Subject: City of Haverhill NPDES Permit # MA0101621
Combine Sewer Overflow Annual Report for Calendar Year 2006

In accordance with the City of Haverhill's NPDES Permit # MA0101621 we are providing this status report as required by item 3 page 10 of 16. Please note the items in *italic* are taken directly from the NPDES permit followed by a response.

- i Activation frequency and discharge volume for each CSO during the previous calendar year. The report shall include this information for each of the CSO discharge outfalls listed on attachment E.*

EPA and DEP have previously Approved the City of Haverhill's SWMM computer model for simulating CSO activations. For details of the model, the reader should consult the report "SWMM Model Calibration and Evaluation of Existing Conditions" prepared by CDM dated July 1998. **Appendix A CSO SUMMARY CALANDER YEAR 2006** was prepared based on output from this SWMM model and includes estimates of CSO activation (including number of events, duration, and volume discharge) during calendar year 2006. Note there were no predicted discharges from many of the CSOs listed in **Appendix A CSO SUMMARY CALANDER YEAR 2006**.

The City submitted the report for catastrophic force main failure experienced from May 13, 2006 to June 19, 2006. See **USEPA Report Number 797-133: Incident Date: 13MAY2006, Report Date: 7 SEPTEMBER 2006**. This report details the activities to repair the force main and the volumes of sewerage released directly into the Merrimack River.

The CSOs statistics for these regulators are predicted based on model changes and not verified from metering or block testing information. In order to accurately reflect the predicted CSO the model was run in the following manner to simulate the construction completion dates as stated above. The SWMM model output for **APPENDIX A CSO SUMMARY CALANDER YEAR 2006** was simulated base upon the following:

- January 1, 2006 to March 31, 2006 was run with no CSO upgrade
- April 1, 2006 to June 30, 2006 was run with 60 MGD being pump to the Wastewater Treatment Plant and all siphon gates fully open.
- July 1, 2006 to December 31, 2006 was run with 60 MGD being pump to the Wastewater Treatment plant, all siphon gates fully open and modifications to Bradford CSO regulators completed.

The SWMM model was run again as if there were no upgrades for the entire year 2006, and as if these upgrades happen January 1, 2006. See **APPENDIX C :CSO SUMMARY CALENDAR YEAR 2006 WITH AND WITHOUT UPGRADES**. From this table the total volume of CSO discharge, **without** upgrades is **206.94 MG**; **with** the upgrades the volume is **70.58 MG**; this represent **65.9%** yearly reduction in CSO volume.

- ii. *Precipitation during the previous year for each day, including total rainfall (expressed in inches), peak intensity (highest 15 minute sample multiplied by four to convert to inches per hour), and average intensity (the total rainfall for the storm event divided by the duration of the storm, expressed in inches per hour.)*

Rain data is collected at the City of Haverhill Wastewater Treatment Plant using a RainWise, Inc , rain gage. The rain is measured in 15-minutes intervals to within 0.01 inches. In order to keep track of each storm, peak and average intensities are recorded and calculated based upon the daily rainfall, rather than from the entire storm duration. This is because most storm durations frequently start and stop more than once in a day. See **Appendix B Calendar Year 2006 Rainfall Statistics**.

- iii. *A certification, which states that the previous calendar's year's monthly inspections were conducted, results recorded, and records maintained.*

I certify that the City of Haverhill inspects and maintains pertinent records from all CSOs at least monthly. The City of Haverhill actively maintains CSO block testing programs. This program consists of placing a small wooden block on each CSO weir attached to a cable. After every significant rainfall event, Collection System Division personnel visually check each block, record results, and notify downstream communities as appropriate

- iv. *A summary of modifications to the approved NMC programs which have been evaluated, and a description of those, which will be implemented during the upcoming year.*

The reader is directed to the first annual report submitted April 30, 2004.

Construction began in May 2004, to treat 60 MGD, with an estimated project cost of \$18-million. Prior to the CSO project the City of Haverhill treated 92.1 percent of their combined Stormwater and wastewater flow prior to discharge to either the Merrimack or Little Rivers. Once the above projects were constructed the combined flow treated increased to approximately 97.3 percent.

The City of Haverhill has diligently moved this project forward, to date all in accordance with the Administrative Order (AO) and all in accordance with the EPA and DEP agreed upon schedule. The following are the completed major system components that pertain to the AO, with completion dates in accordance with the AO:

- Pump station upgrades to pump 60 MGD and modulating gate structure completed March 2006, which includes SCADA controls AO Completion date April 21, 2006
- Aerated grit tanks completed and on line March 2006, which includes SCADA controls. AO Completion date April 21, 2006
- Secondary by-pass completion and on line March 2006, which includes SCADA controls. AO Completion date April 21, 2006
- Bradford CSO modification June 2006, AO Completion date July 30, 2006.

The City of Haverhill is committed to moving forward with programs that will clearly have a positive impact on water quality and use of the Merrimack and Little Rivers. This has already been demonstrated by our commitment to fund the design and construction of the WWTP expansion program and Bradford-side CSO modifications.

A clear plan for environmental restoration of the river is what is needed through targeted investments. This plan must be based on a full understanding of all the issues facing the river. This way the right investments can be made and the public at large can see the real benefit of these investments.

In the first annual report submitted in accordance with this permit, the permittee shall submit a public notification plan to describe the measures actively being taken to meet NMC #9 (see NMC #9 in part I.C.1a.i.8), and an evaluation of future measures to enhance the public notification program, including the following:

The reader is directed to first annual report submitted April 30, 2004.

- i. *Outfall sign visible from both water and land.*
- ii. *Sign/Notices are where people may be using CSO-impacted waters for recreation such as swimming, boating, fishing, and places where the public may gain access to the water (e.g.*

boat put-in areas). The notice would include information on health risk posed by CSO and links for additional information on CSOs and water quality.

Signs have been installed at each CSO location along the Merrimack River and will be maintained over the coming year. The City's Public Notification Program, (required by the NMC), will consist of public education about CSO discharges and their impacts. "Real-Time" notification of the receiving water impacts or use restrictions during the activation of the CSO discharge is not feasible (due to its transient and intermittent occurrences). Accordingly, the City will rely on a general education programs and the City's official web site <http://www.ci.haverhill.ma.us/> to keep the public aware of the possible health risks. This awareness program will be implemented over the coming year.

iii. Review of the sewer system model to determine the threshold rain events, which normally will cause overflows.

CDM has provided the City an Excel spreadsheet to simulate CSO activations and volumes. The City is working with CDM to refine the formula in the spreadsheet to ensure that accurate results are obtained. This spreadsheet will be refined and pertinent results can be provided in the annual report submitted to EPA.

iv. Quarterly postings on the permittee's website and links to other relevant websites which would give the locations of the CSOs, and associated health risks and estimate of CSO activations and volumes. The permittee shall establish a website within six (6) months of the effective date of the permit.

The City of Haverhill's official web site is <http://www.ci.haverhill.ma.us/>. Under a separate contract with CDM, the City is undertaking a Citywide Geographical Informational System (GIS). Once completed a more detail description and location map for all CSO's will be placed onto the City's web site. The SWMM model statics for 2006 are presented in **Appendix A CSO SUMMARY CALANDER YEAR 2006**, have already been placed on the City web page.

v. Annual press release and notification to interested individuals and groups on the progress of the CSO abatement work, also noting contacts for additional information on CSOs and water quality.

The City has contacted downstream communities and sent the 2006 SWMM model report. When other interested individuals are identified, this notification will be sent to them also

vi. Notice to local health agents and other downstream public officials, including drinking water treatment plants (where appropriate), shellfish wardens, harbor masters, and the Massachusetts Division of Marine Fisheries (via FAX at 978-465-5947) within 24 hours of activation of CSOs. The permittee shall also notify the Massachusetts Divisions of Marine Fisheries by the same method if the treatment plant discharges effluent without disinfection. When City of Haverhill staff are unavailable to confirm an actual discharge from a

CSO during a significant precipitation event, the permittee shall report the probable occurrence of a CSO discharge in the same manner. Subsequently, the occurrence of the CSO discharge event shall be confirmed or dispelled as staff becomes available. The planned notice distribution contact list shall be provided to EPA and DEP. The public notification plan shall include a schedule for implementation of enhanced public notice measures.

APPENDIX D: NPDES DOWNSTREAM COMMUNITIES represent the list of downstream communities that the City notifies in the event of CSO activation.

If you require additional information, please call me at 978-374-2382.

Sincerely,



Paul J. Jessel

Collection System Supervisor

cc: Robert Ward, Superintendent/Engineer Water/Wastewater
Fred Haffty, WWTP Facility Manager
Don Freeman, CDM
Division of Fisheries
Shellfish Program
84 82nd Street
Newburyport, MA 0195

APPENDIX A: CSO SUMMARY CALANDER YEAR 2006

January 1, 2006 to March 31, 2006						
STRUCNAME	Full Name	NPDES	# Events	Vol	MG	hours
NMDH04W	Winter Street & Hale St		2		0.52	3.00
NMBR02W	Broadway Regulator					
NMHI01W	High Street Regulator					
NLRS28WR	Bates Bridge	001				
NLRS04WR	Boardman Street	010				
NLSIGTOF	Lower Siphon	013	5	2.74		6.75
NLWS09WR	Fire Station	016				
NLWS13OF	Main Street - North	019				
NMESOF-D	Middle Siphon	021	3	1.78		14.99
NMMSE3	Little River East	021	2	0.61		3.00
NMNS01B	Little River West	021	3	0.19		3.01
NUWS09OF	Railroad Bridge	022				
NUWS02WR	River Street	023				
NUSIGTOF	Upper Siphon	024	3	1.88		10.12
NUMN04WR	Beach Street	025				
SUSB02WR	Front Street	031	1	0.33		1.12
SMSB03WR	Bradford Avenue	032	3	0.75		7.13
SMSB01WR	South Prospect Street	033	1	0.04		1.12
SLSB12WR	Middlesex Street	034	1	0.03		2.25
SLSB10WR	South Main Street	035	2	0.60		4.88
SLSB08WR	Ferry Street	036	3	0.39		2.25
NLMI12WR	Mill Street	---				
					9.86	

April 1, 2006 to June 30, 2006						
STRUCNAME	Full Name	NPDES	# Events	Vol	MG	hours
NMDH04W	Winter Street & Hale St		8.00		0.82	24.00
NMBR02W	Broadway Regulator					
NMHI01W	High Street Regulator					
NLRS28WR	Bates Bridge	001				
NLRS04WR	Boardman Street	010				
NLSIGTOF	Lower Siphon	013	3.00	10.54		27.74
NLWS09WR	Fire Station	016				
NLWS13OF	Main Street - North	019				
NMESOF-D	Middle Siphon	021	7.00	4.51		34.50
NMMSE3	Little River East	021	10.00	5.20		68.23
NMNS01B	Little River West	021	13.00	2.29		69.75
NUWS09OF	Railroad Bridge	022				
NUWS02WR	River Street	023				
NUSIGTOF	Upper Siphon	024	4.00	5.35		21.37
NUMN04WR	Beach Street	025				
SUSB02WR	Front Street	031	8.00	2.22		56.25
SMSB03WR	Bradford Avenue	032	12.00	8.62		98.61
SMSB01WR	South Prospect Street	033	6.00	0.10		19.88
SLSB12WR	Middlesex Street	034	9.00	0.22		23.24
SLSB10WR	South Main Street	035	12.00	1.63		69.01
SLSB08WR	Ferry Street	036	15.00	2.12		74.27
NLMI12WR	Mill Street	---				
					43.64	

July 1, 2006 to December 31, 2006

STRUCNAME	Full Name	NPDES	# Events	Vol	MG	hours
NMDH04W	Winter Street & Hale St		14		0.93	18.02
NMBR02W	Broadway Regulator					
NMHI01W	High Street Regulator					
NLRS28WR	Bates Bridge	001				
NLRS04WR	Boardman Street	010				
NLSIGTOF	Lower Siphon	013	3		1.10	3.38
NLWS09WR	Fire Station	016				
NLWS13OF	Main Street - North	019				
NMESOF-D	Middle Siphon	021	9		1.78	12.00
NMMSE3	Little River East	021	13		2.76	25.87
NMNS01B	Little River West	021	13		0.97	23.22
NUWS09OF	Railroad Bridge	022				
NUWS02WR	River Street	023				
NUSIGTOF	Upper Siphon	024	5		2.38	8.62
NUMN04WR	Beach Street	025				
SUSB02WR	Front Street	031	7		0.75	10.49
SMSB03WR	Bradford Avenue	032	15		4.98	51.37
SMSB01WR	South Prospect Street	033	5		0.13	6.38
SLSB12WR	Middlesex Street	034	7		0.13	11.64
SLSB10WR	South Main Street	035	10		0.97	20.60
SLSB08WR	Ferry Street	036	6		0.21	6.77
NLMI12WR	Mill Street	---				
					17.09	

Combine YEARLY Totals

STRUCNAME	Full Name	NPDES	# Events	Vol	MG	hours
NMDH04W	Winter street & Hale St		24.00		2.28	45.02
NMBR02W	Broadway regulator					
NMHI01W	High Street Regulator					
NLRS28WR	Bates Bridge	001				
NLRS04WR	Boardman Street	010				
NLSIGTOF	Lower Siphon	013	11		14.38	37.87
NLWS09WR	Fire Station	016				
NLWS13OF	Main Street - North	019				
NMESOF-D	Middle Siphon	021	19		8.07	61.49
NMMSE3	Little River East	021	25		8.57	97.10
NMNS01B	Little River West	021	29		3.45	95.98
NUWS09OF	Railroad Bridge	022				
NUWS02WR	River Street	023	0		0.00	0.00
NUSIGTOF	Upper Siphon	024	12		9.62	40.11
NUMN04WR	Beach Street	025				
SUSB02WR	Front Street	031	16		3.30	67.86
SMSB03WR	Bradford Avenue	032	30		14.35	157.11
SMSB01WR	South Prospect Street	033	12		0.28	27.38
SLSB12WR	Middlesex Street	034	17		0.38	37.13
SLSB10WR	South Main Street	035	24		3.20	94.49
SLSB08WR	Ferry Street	036	24		2.72	83.29
NLMI12WR	Mill Street	---				
			30 Max		70.58	

Appendix B Calendar Year 2006 Rainfall Statistics

Storm Date	Peak Hour Depth (inches)	Storm Depth (inches)	Duration (hours)
1/1/2006	0.08	0.14	3.00
1/3/2006	0.08	0.11	2.50
1/5/2006	0.08	0.17	3.75
1/8/2006	0.04	0.04	1.00
1/9/2006	0.04	0.01	0.25
1/11/2006	0.16	0.10	1.25
1/12/2006	0.16	0.16	1.75
1/14/2006	0.32	0.59	6.50
1/15/2006	0.28	0.38	4.25
1/17/2006	0.08	0.03	0.50
1/18/2006	0.52	0.65	5.75
1/23/2006	0.28	0.77	7.25
1/25/2006	0.16	0.26	3.25
1/26/2006	0.04	0.03	0.75
1/29/2006	0.20	0.33	3.75
1/31/2006	0.04	0.15	3.75
2/1/2006	0.04	0.01	0.25
2/3/2006	0.20	0.58	5.75
2/4/2006	0.12	0.23	2.75
2/5/2006	0.44	0.75	6.25
2/13/2006	0.20	0.22	2.75
2/17/2006	0.12	0.06	1.00
2/23/2006	0.04	0.06	1.50
3/10/2006	0.04	0.01	0.25
3/31/2006	2.80	0.70	0.25
4/1/2006	0.16	0.19	2.25
4/2/2006	0.04	0.01	0.25
4/3/2006	0.08	0.07	1.25
4/4/2006	0.48	1.26	9.50
4/5/2006	0.08	0.28	5.75
4/7/2006	0.08	0.09	2.00
4/8/2006	0.04	0.02	0.50
4/13/2006	0.08	0.05	1.00
4/17/2006	0.04	0.02	0.50

Appendix B Calendar Year 2006 Rainfall Statistics

4/18/2006	0.04	0.02	0.50
4/22/2006	0.04	0.04	1.00
4/23/2006	0.16	0.53	8.25
4/24/2006	0.20	0.22	3.00
5/1/2006	0.04	0.01	0.25
5/2/2006	0.20	1.27	15.50
5/3/2006	0.32	0.44	6.25
5/4/2006	0.04	0.01	0.25
5/9/2006	0.24	1.18	9.00
5/10/2006	0.52	1.30	10.25
5/11/2006	0.04	0.05	1.25
5/12/2006	0.04	0.03	0.75
5/13/2006	0.72	4.22	21.00
5/14/2006	0.72	4.37	23.50
5/15/2006	0.24	0.81	10.50
5/16/2006	0.32	0.55	6.00
5/17/2006	0.04	0.04	1.00
5/19/2006	0.40	0.44	3.25
5/21/2006	0.16	0.14	2.00
5/26/2006	0.08	0.08	1.75
5/27/2006	0.08	0.04	0.75
6/1/2006	1.56	1.26	4.00
6/2/2006	1.04	1.40	8.00
6/3/2006	0.56	1.73	13.50
6/4/2006	0.36	0.62	4.25
6/5/2006	0.04	0.01	0.25
6/7/2006	0.60	2.27	18.50
6/8/2006	0.20	0.56	8.00
6/10/2006	0.40	1.23	14.75
6/14/2006	0.56	0.24	1.50
6/15/2006	0.20	0.37	3.75
6/20/2006	0.92	0.23	0.25
6/23/2006	0.36	0.33	3.00
6/24/2006	1.04	1.14	8.75
6/25/2006	0.08	0.16	3.00
6/26/2006	0.04	0.02	0.50
6/28/2006	0.20	0.15	1.75
6/29/2006	0.20	0.06	0.50
7/11/2006	0.76	0.63	1.50

Appendix B Calendar Year 2006 Rainfall Statistics

7/12/2006	0.56	0.87	6.50
7/13/2006	0.24	0.09	1.00
7/20/2006	0.08	0.02	0.25
7/21/2006	0.20	0.09	0.75
7/22/2006	1.60	0.78	2.00
7/23/2006	1.24	1.02	3.00
7/28/2006	1.04	0.43	1.75
7/29/2006	0.12	0.06	1.00
8/4/2006	1.28	0.60	1.50
8/7/2006	0.16	0.09	1.25
8/15/2006	0.48	0.33	2.75
8/20/2006	0.60	1.01	6.75
8/25/2006	0.16	0.24	3.00
8/27/2006	0.44	0.61	6.75
8/28/2006	0.52	0.36	4.00
8/29/2006	0.04	0.07	1.75
9/3/2006	0.24	0.61	9.00
9/5/2006	0.04	0.01	0.25
9/6/2006	0.04	0.01	0.25
9/9/2006	0.08	0.02	0.25
9/14/2006	0.12	0.32	4.75
9/19/2006	0.52	0.35	2.50
9/20/2006	0.60	0.56	2.25
9/23/2006	0.24	0.30	2.50
9/24/2006	0.12	0.08	1.25
9/29/2006	0.28	0.19	1.75
10/1/2006	0.20	0.46	6.25
10/2/2006	0.04	0.01	0.25
10/4/2006	0.04	0.01	0.25
10/5/2006	0.04	0.02	0.50
10/11/2006	0.04	0.06	1.50
10/12/2006	1.36	1.66	6.25
10/17/2006	0.08	0.21	4.00
10/18/2006	0.08	0.05	0.75
10/20/2006	0.96	0.84	7.00
10/23/2006	0.28	0.22	2.50
10/28/2006	0.44	1.81	14.00
11/1/2006	0.12	0.05	0.75
11/2/2006	0.08	0.19	3.25

Appendix B Calendar Year 2006 Rainfall Statistics

11/7/2006	0.04	0.01	0.25
11/8/2006	0.32	1.24	15.00
11/9/2006	0.24	0.55	4.50
11/12/2006	0.40	0.40	2.75
11/13/2006	0.16	0.50	7.50
11/14/2006	0.16	0.55	8.25
11/16/2006	0.40	0.30	2.00
11/17/2006	0.84	1.20	6.75
11/23/2006	0.16	0.44	5.50
11/24/2006	0.20	0.36	3.25
11/28/2006	0.04	0.05	1.25
11/29/2006	0.04	0.03	0.75
12/1/2006	0.44	0.38	3.00
12/4/2006	0.08	0.05	1.00
12/11/2006	0.04	0.03	0.75
12/12/2006	0.04	0.01	0.25
12/13/2006	0.08	0.06	1.25
12/14/2006	0.04	0.01	0.25
12/18/2006	0.24	0.01	0.25
12/23/2006	0.20	1.04	14.00
12/26/2006	0.24	0.63	9.00
12/31/2006	0.16	0.06	0.75

Total: 59.55 inches

APPENDIX C: CSO SUMMARY CALANDER YEAR 2006 WITH AND WITHOUT UPGRADES

City of Haverhill CSO Summary					
From January 2006 to December 2006					
NO UPGRADES					
STRUCNAME	Full Name	NPDES	# of Events	vol MG	hours
NMDH04W	Winter Street & Hale St		24	2.28	45.02
NMBR02W	Broadway Regulator				
NMHI01W	High Street Regulator				
NLRS28WR	Bates Bridge	001			
NLRS04WR	Boardman Street	010			
NLSIGTOF	Lower Siphon	013	35	85.25	514.86
NLWS09WR	Fire Station	016			
NLWS13OF	Main Street - North	019			
NMESOF-D	Middle Siphon	021	38	40.74	291.02
NMMSE3	Little River East	021	25	8.58	96.72
NMNS01B	Little River West	021	29	3.51	95.60
NUWS09OF	Railroad Bridge	022			
NUWS02WR	River Street	023			
NUSIGTOF	Upper Siphon	024	35	42.63	172.86
NUMN04WR	Beach Street	025			
SUSB02WR	Front Street	031	19	3.46	75.35
SMSB03WR	Bradford Avenue	032	31	13.85	158.23
SMSB01WR	South Prospect Street	033	14	0.20	19.14
SLSB12WR	Middlesex Street	034	21	0.38	55.48
SLSB10WR	South Main Street	035	26	4.05	111.01
SLSB08WR	Ferry Street	036	33	4.28	105.76
			38 Max	206.94 Total	

City of Haverhill CSO Summary

From January 2006 to December 2006

WITH UPGRADES

STRUCNAME	Full Name	NPDES	# Events	Vol MG	hours
NMDH04W	Winter street & Hale St		24.00	2.28	45.02
NMBR02W	Broadway regulator				
NMHI01W	High Street Regulator				
NLRS28WR	Bates Bridge	001			
NLRS04WR	Boardman Street	010			
NLSIGTOF	Lower Siphon	013	11	14.38	37.87
NLWS09WR	Fire Station	016			
NLWS13OF	Main Street - North	019			
NMESOF-D	Middle Siphon	021	19	8.07	61.49
NMMSE3	Little River East	021	25	8.57	97.10
NMNS01B	Little River West	021	29	3.45	95.98
NUWS09OF	Railroad Bridge	022			
NUWS02WR	River Street	023	0	0.00	0.00
NUSIGTOF	Upper Siphon	024	12	9.62	40.11
NUMN04WR	Beach Street	025			
SUSB02WR	Front Street	031	16	3.30	67.86
SMSB03WR	Bradford Avenue	032	30	14.35	157.11
SMSB01WR	South Prospect Street	033	12	0.28	27.38
SLSB12WR	Middlesex Street	034	17	0.38	37.13
SLSB10WR	South Main Street	035	24	3.20	94.49
SLSB08WR	Ferry Street	036	24	2.72	83.29
NLMI12WR	Mill Street	---			
			30 Max	70.58	
	Combine Totals From Appendix A			70.58 MG	

Volume reduction 65.89%

APPENDIX: D NPDES DOWNSTREAM COMMUNITIES

First Name	Last Name	Address	City	State	Postal Code	Tele #	DEPT	E-mail
Horace	Baxter	P.O. Box 5072	Salisbury	MA	01952	(978) 462-3430	Board of Health	healthagent@salisburyma.gov
Robert	Desmaris	62 Friend Street	Amesbury	MA	01913	1-978-388-8127	Engineering	rob@ci.amesbury.ma.us
Bonnie	Dufresne	4 Summer Street	Haverhill	MA	01830	(978) 374-2325	Board of Health	bdufresne@cityofhaverhill.com
Dan	Folding	10 W Main St	Merrimac	MA	01860	(978) 346-8311	Light & Water	danfolding@merrimaclightwater.com
Edward	Gallagher	183 Main Street	Groveland	MA	01834	(978) 372-3942	Board of Health	itevald@grovelandma.com
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Ray	Pike	5 Beach Road	Salisbury	MA	01952	978 499 0740	Harbor Master	harbormaster@salisburyma.gov
David	Roach	84 82 nd Street	Newburyport	MA	01950	(978) 465-3553	Shellfish Division	dave.roach@state.ma.us
Paul	Sevigny	381 Main Street	West Newbury	MA	01985	(978) 363-1109	Board of Health	psevigny@town.westnewbury.ma.us
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Michael	Vets	72 Coffin Avenue	Haverhill	MA	01830	(978) 374-2100	Harbor Master	vetsm@comcast.net

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