

## Water-Monitoring Report, September 15, 2006

Below is a copy of the sampling report update for Hempstead Harbor through September 14 for the 2006 water-monitoring season. The narrative and data are provided by:



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The water-monitoring season for 2006 began on April 21, 2006, with a survey of all of the monitoring stations in Hempstead Harbor that have been established since the inception of the Coalition to Save Hempstead Harbor's Water-Monitoring Program in 1992. Weekly monitoring began on June 1. This year, the Hempstead Harbor Protection Committee (HHPC) took over responsibility for fully funding the program, and the Coalition to Save Hempstead Harbor will continue to coordinate the program as the HHPC's subcontractor.

### SEPTEMBER 14

A light rain began a few hours before sampling and continued throughout the day, becoming heavier at times. A full survey was conducted at CSHH #1, 2, 3, and 8, and bacteria samples were collected at those stations as well as at #9, 10, 11, and 12. An unusually high level of chlorine (3 ppm free and available and total residual) was recorded at CSHH #8 and reported to the STP plant manager and NCDH. The plant's tests for samples collected before and after our samples were recorded at 1.8 ppm and 1.9 ppm total residual.

#### Temperature and DO

Air temperature was cooler than recorded the preceding week, ranging from about 19°C to 20°C during the period of water sampling, and water temperature was about 21°C at both the surface and bottom at the upper-harbor stations, similar to last week's readings. DO levels were also similar to last week's readings—ranging from 6.6 to 8.4 ppm at the surface and from about 6.5 to 7.4 ppm at the bottom.

#### Color and Clarity

The harbor water was an abnormal brown in areas, particularly at the Tappen Marina. Last evening, Hempstead Harbor angler Michael Marchese reported that the water at Brewer's Marina (Glen Cove Creek) was abnormally brown—he described it as a "chocolate brown" and said that "some of the brown color looked suspended in the water." No odor was noted. Turbidity during sampling was noted as high, and Secchi depth ranged from 0.5 m to 1.3 m.

#### Observations

##### *Wildlife*

Bird activity was light—4 swans, 11 ducks, and 2 egrets.

##### *Fishing Report*

Pete Emmerich reported hearing from other anglers about a "fantastic porgy bite" and "schoolie bass" in the harbor. The Hempstead Harbor Anglers Club held its annual snapper derby on Saturday, September 9, and recorded a total catch of 275 snappers, 4 shad, and a "good size Atlantic needle fish" off the beach at Tappen Beach Park. Pete provided a picture of a striped bass he caught earlier in the season (see attached photo).

##### *Human Activities*

About 22 barges were tied up by the gravel operation, and a tug and barge were noted close by.

##### *Floatables*

No floatables noted yesterday.



*Fish tales? The camera angle here makes a big fish look even bigger! Pete Emmerich caught this 35-pound bass at the mouth of Hempstead Harbor in June, at approximately a midpoint between Prospect Point and Mattinecock Point—in the about the same spot where he caught the 36-pounder noted in the August 22 water-monitoring report.*



# CSHH Water-Monitoring Program 2006

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
<b>CSHH #1 - Beacon 11</b>										
6/1/06	16.63	15.36	25.02	25.17	8.17	8.48	7.01	23	2.2	9:11
6/8/06	17.52	17.5	24.00	24.74	8.00	7.00	7.35	18.9	4.3	9:05
6/15/06	18.48	18.38	24.22	24.39	9.36	8.78	7.70	21.0	2.2	9:35
6/22/06	20.1	16.67	25.22	25.97	7.69	5.09	8.22	25.2	4.6	9:15
6/29/06	19.16	18.84	25.72	25.84	5.03	4.71	7.90	24.0	2.3	8:35
7/7/06	22.04	20.56	24.39	25.27	10.03	4.79	8.00	21.6	4.7	9:06
7/13/06	21.10	20.35	24.99	25.11	4.40	4.22	8.00	25.6	1.1	8:40
7/20/06	23.26	19.84	25.58	26.52	7.48	3.77	7.80	23.8	4.8	8:50
7/27/06	23.40	22.36	25.94	26.25	4.27	2.30	N/A	25.7	1.7	8:40
8/2/06	26.14	24.62	25.03	25.33	6.28	3.32	8.00	32.1	3.3	8:45
8/10/06	24.89	23.54	25.47	25.86	4.28	2.48	7.00	25.5	2.9	8:50
8/17/06	24.95	23.35	25.62	26.19	5.23	4.21	7.38	24.0	4.1	9:10
8/24/06	25.06	24.58	25.71	26.10	5.22	3.47	7.40	21.1	2.9	8:30
8/31/06	22.16	22.12	25.53	25.56	3.56	2.97	7.50	16.2	3.6	8:44
9/7/06	21.46	21.12	25.26	25.78	7.89	6.05	7.60	21.3	4.1	8:48
9/14/06	20.68	20.66	25.25	25.43	6.60	6.46	7.60	20.0	2.3	9:20

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
<b>CSHH #2 - Bell Marker 6</b>										
6/1/06	17.09	16.27	25.89	25.95	10.99	10.53	7.47	23.0	6.5	9:45
6/8/06	17.53	17.17	25.26	25.45	8.54	7.43	7.46	18.6	6.2	10:45
6/15/06	18.47	16.48	25.01	25.73	11.02	6.12	7.86	22	6.2	10:05
6/22/06	19.85	16.63	25.59	26.07	9.97	7.23	7.93	26.3	8.6	10:20
6/29/06	18.74	18.10	26.14	26.25	8.50	7.37	7.89	23.7	6.4	9:20
7/7/06	22.25	17.57	24.82	26.12	10.06	4.50	8.00	26.0	7.9	11:26
7/13/06	19.58	17.49	25.89	26.52	6.61	5.87	7.50	26.2	6.9	9:10
7/20/06	21.54	20.03	26.34	26.56	7.90	4.62	7.80	22.6	7.4	10:05
7/27/06	22.32	19.59	26.30	26.83	7.00	0.98	7.80	27.2	7.4	9:10
8/2/06	25.20	19.71	25.49	26.20	8.74	0.14	7.90	32.3	7.5	9:40
8/10/06	23.24	22.98	26.13	26.32	6.96	2.15	7.50	28.7	8.7	10:25
8/17/06	23.80	22.30	26.10	26.48	8.75	2.27	7.95	23.4	7.5	9:50
8/24/06	23.97	22.63	26.39	26.67	6.61	3.06	7.59	21.7	6.0	9:03
8/31/06	No water sampling at this site because of high wind and waves (2-3 foot waves).									
9/7/06	20.90	20.76	25.86	26.11	8.38	5.91	7.90	21.4	8.1	9:20
9/14/06	20.35	20.27	25.04	26.13	7.99	7.39	7.80	19.0	6.7	9:55

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
<b>CSHH #3 - Glen Cove Creek, Red Marker</b>										
6/1/06	18.07	15.16	25.20	25.96	10.66	9.10	7.60	24.0	3.2	10:15
6/8/06	17.67	17.17	24.25	25.22	8.23	8.5	7.46	19.4	4.79	11:10
6/15/06	18.69	18.65	24.74	24.74	9.95	11.94	7.89	23.0	2.6	10:30
6/22/06	19.81	17.00	25.43	25.97	9.23	5.11	7.92	25.1	4.9	10:45
6/29/06	19.18	18.85	25.95	26.09	7.62	7.10	7.88	25.4	2.9	9:55
7/7/06	22.46	20.46	24.34	25.39	10.31	5.72	8.00	25.3	4.2	11:44
7/14/06	21.01	19.87	23.72	25.49	7.48	5.24	7.50	25.7	2.9	9:35
7/20/06	20.56	19.00	26.01	26.69	7.39	2.93	7.80	22.9	5.0	10:30
7/27/06	23.40	21.94	25.90	26.35	7.65	4.14	7.80	27.1	3.4	9:35
8/2/06	26.89	23.31	24.89	25.48	8.64	4.85	7.70	34.7	3.3	10:06
8/10/06	24.23	22.91	25.79	26.21	6.64	3.90	7.00	29.0	4.9	11:45
8/17/06	23.95	23.39	25.50	26.27	7.74	7.44	7.76	25.5	1.8	10:16
8/24/06	24.13	24.38	26.02	26.31	7.53	7.08	7.70	21.9	3.9	9:23
8/31/06	21.71	21.95	25.75	26.38	3.69	2.37	7.50	16.2	3.8	9:30
9/7/06	21.23	21.03	25.46	25.98	9.32	7.08	7.90	21.6	5.1	9:50
9/14/06	20.45	20.61	24.98	26.18	8.40	6.50	7.70	19.0	3.4	10:15

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
<b>CSHH #8 - (Glen Cove Sewage Treatment Plant)</b>										



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Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
6/1/06	18.52	17.30	22.89	25.41	9.44	10.16	7.51	26.0	1.4	10:35
6/8/06	17.79	17.43	20.91	24.73	8.22	7.67	7.44	19.6	3.2	11:30
6/15/06	19.83	18.30	22.98	24.94	11.09	10.36	7.96	24.0	1.4	10:50
6/22/06	20.68	18.90	21.49	25.62	8.07	6.62	7.90	26.0	3.2	11:05
6/29/06	19.61	19.12	21.42	25.64	6.19	5.08	7.83	27.0	1.0	10:30
7/7/06	22.76	21.79	22.09	24.79	8.45	7.75	8.00	26.0	2.5	12:06
7/14/06	22.37	20.90	20.58	24.60	7.25	5.17	7.50	25.8	1.4	9:50
7/20/06	22.36	20.41	24.91	26.45	6.64	4.18	8.00	25.2	2.9	10:55
7/27/06	23.83	22.62	23.90	26.21	6.84	3.22	N/A	28.3	2.2	10:00
8/2/06	25.88	25.49	22.39	25.23	10.34	7.90	7.60	34.3	1.6	10:40
8/10/06	23.92	24.15	22.40	25.43	7.08	6.66	7.50	28.0	3.7	11:20
8/17/06	24.26	24.10	24.95	25.96	7.23	6.60	7.65	24.0	2.2	10:45
8/24/06	24.52	24.12	23.23	26.25	7.03	4.92	7.61	22.6	2.7	9:55
8/31/06	21.73	22.15	24.25	25.69	3.81	3.17	7.50	17.0	1.9	10:00
9/7/06	21.37	21.31	23.59	25.07	8.71	8.76	7.70	23.3	3.9	10:25
9/14/06	20.86	20.84	23.64	25.71	7.52	6.98	7.40	18.9	1.6	10:40

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				



## CSHH Water-Monitoring Program 2006

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
<b>CSHH #4 - Bar Beach Spit</b>										
6/8/06	17.75	17.49	23.83	24.59	8.14	7.17	7.36	18.8	3.6	10:30
7/7/06	23.29	18.79	24.67	25.67	7.58	2.90	8.00	24.3	6.6	11:02
8/24/06	24.48	24.28	26.14	26.22	4.93	3.96	7.49	24.9	2.9	10:38
<b>CSHH #5 - Mott's Cove</b>										
6/8/06	17.60	17.50	23.69	24.00	7.87	7.43	7.39	20.0	1.7	9:40
7/7/06	22.55	22.52	24.12	24.32	7.12	7.11	8.00	23.6	1.5	9:43
8/24/06	25.27	25.05	25.60	25.90	4.48	4.10	7.36	24.8	1.6	10:52
<b>CSHH #6 - East of Former Incinerator Site</b>										
6/8/06	17.71	17.46	23.02	23.75	7.42	7.17	7.37	19.5	2.0	9:55
7/7/06	22.65	22.67	23.80	24.09	7.88	7.41	8.00	24.4	1.7	10:05
8/24/06	no sampling because of osprey rescue									
<b>CSHH #7 - West of Bryant Landing (formerly site of oil dock)</b>										
6/8/06	16.69	17.42	16.75	22.99	6.85	6.59	7.23	19.0	1.9	10:10
7/7/06	22.70	22.63	23.10	23.93	9.55	5.92	8.00	25.1	1.6	10:30
8/24/06	no sampling because of osprey rescue									





