

Water-Monitoring Report, October 13, 2005

Below is a copy of the sampling report update for Hempstead Harbor through **October 6** for the 2005 water-monitoring season. High winds and rain prevented sampling on October 13. The narrative and data are provided by:



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Wind and water conditions were calm at all stations during sampling on October 6.

DO and Salinity

Bottom DO levels continue to rise and in two stations seemed to be abnormally high (at 9.06 ppm and 8 ppm). Over the last few weeks, salinity levels have also been rising (26.60-27.22 at bottom) as water temperatures have cooled (20.78- 21.09°C at bottom). It will be interesting to see whether this week's rainfall (nearly 10 inches and still counting) will have an impact on these levels as well as on pH (which was running between 7.84 and 8.15 at the surface).

Color and Clarity

Secchi depth ranged from 1.0-1.5 m. Water was turbid and brown.

Observations

Fewer birds seen as compared with previous weeks: 3 swans and 30-plus geese. No visible schools of fish as in previous weeks.



CSHH Water-Monitoring Program 2005

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

CSHH #1 - Beacon 11

6/2/2005	16.17	14.65	19.76	20.23	8.89	6.44	8.04	14.1	5.3	8:35
6/9/2005	18.85	18.57	19.81	19.86	6.94	6.70	7.50	25.0	1.3	9:15
6/16/2005	15.78	13.71	24.64	24.98	4.17	2.84	7.45	18.6	5.2	8:40
6/23/2005	19.97	18.00	24.16	24.64	5.61	3.02	7.62	21.3	3.5	9:25
06/30/05	18.73	17.44	24.75	25.01	5.30	3.51	7.51	22.1	3.9	8:40
07/07/05	21.73	21.75	24.31	24.39	7.15	7.09	7.86	20.7	1.8	7:55
07/14/05	22.80	21.75	24.17	24.63	3.02	2.39	7.36	25.0	3.0	8:10
07/21/05	26.40	23.90	23.70	24.29	7.69	2.57	7.80	27.2	3.0	8:05
07/28/05	23.60	23.58	24.74	24.76	4.97	4.84	7.45	24.2	4.3	9:15
08/04/05	23.84	21.96	25.04	25.39	2.95	0.53	7.28	27.2	3.6	8:30
08/11/05	24.53	23.95	25.02	25.22	2.23	1.19	7.20	27.6	2.9	8:15
08/18/05	24.19	23.51	24.89	25.31	2.06	0.11	7.29	22.0	3.6	8:15
08/25/05	23.93	23.95	25.44	25.52	5.68	5.55	7.59	20.8	2.3	8:15
09/01/05	23.17	22.75	26.15	26.73	4.34	2.67	7.40	24.8	3.9	8:15
09/08/05	22.91	22.82	25.99	26.11	7.32	6.62	7.75	22.6	2.5	9:15
09/15/05	Survey cancelled because of wind an rain.									
09/22/05	22.84	22.85	26.01	26.16	4.67	4.37	7.55	23.6	2.3	9:00
09/29/05	21.49	21.51	26.90	26.97	6.45	5.73	7.69	23.4	4.9	10:05
10/06/05	20.76	20.78	25.97	26.61	7.20	6.70	7.84	19.5	2.4	9:20

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

CSHH #2 - Bell Marker 6

6/2/2005	16.15	14.32	20.08	20.45	10.59	7.77	8.29	18.2	8.6	10:55
6/9/2005	19.17	15.10	20.04	20.52	9.79	4.94	7.50	24.3	7.0	9:40
6/16/2005	17.56	13.53	24.6	25.07	8.77	3.94	8.17	20.5	8.3	10:05
06/23/05	19.10	16.69	24.63	24.92	8.30	4.49	8.10	22.0	7.2	10:10
06/30/05	19.28	17.05	24.77	25.11	8.45	4.98	7.95	24.5	8.3	9:20
7/7/2005	21.02	18.29	24.72	25.24	9.56	4.91	8.28	20.1	5.0	8:25
7/14/2005	22.39	21.10	24.26	24.79	7.19	5.34	7.90	25.2	7.3	8:40
07/21/05	25.25	20.87	24.31	24.95	9.41	1.82	8.17	28.4	7.3	9:00
07/28/05	22.82	22.51	25.09	25.12	6.85	6.27	7.81	24.0	5.5	9:45
08/04/05	24.06	21.64	25.24	25.48	6.06	1.59	7.65	28.5	7.6	9:15
08/11/05	23.78	21.52	25.49	25.79	6.37	0.23	7.68	29.0	7.4	8:45
08/18/05	24.21	23.56	25.42	25.47	5.79	4.38	7.74	22.4	8.6	10:00
08/25/05	Abandoned station because of wind and waves.									
9/1/2005	22.94	22.27	26.74	27.00	4.75	2.06	7.58	24.3	9.5	8:44
09/08/05	23.01	22.65	26.82	27.06	7.34	3.16	7.93	23.5	6.6	9:40
09/15/05	Survey cancelled because of wind and rain.									
09/22/05	23.03	22.89	26.82	26.97	5.23	3.73	7.61	24.9	7.2	9:23
09/29/05	Station abandoned after surface sampling due to strong wind and waves.									
10/6/2005	21.08	21.09	27.08	27.22	8.42	5.59	8.12	19.9	7.5	9:50



CSHH Water-Monitoring Program 2005

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

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

CSHH #3 - Glen Cove Creek, Red Marker

6/2/2005	16.63	14.50	19.66	20.42	9.43	5.88	8.16	18.3	4.4	11:25
6/9/2005	19.52	17.70	20.10	20.24	11.05	7.22	8.00	25.5	3.5	10:20
06/16/05	17.57	15.26	24.41	24.85	7.45	5.07	7.99	20.1	4.0	10:30
06/23/05	19.13	17.95	20.52	24.83	6.95	5.64	7.91	23.1	4.6	10:40
06/30/05	19.25	17.07	24.58	25.06	6.34	3.47	7.63	24.6	4.4	9:45
07/07/05	20.56	20.33	24.50	24.89	7.95	7.14	8.05	19.8	3.6	9:00
07/14/05	22.50	21.23	23.05	24.80	5.70	3.30	7.64	26.3	3.8	9:00
07/21/05	25.71	22.23	24.06	24.62	9.23	2.24	8.07	28.9	4.0	9:20
07/28/05	23.29	22.68	24.35	24.97	5.83	4.47	7.61	24.3	3.3	10:20
08/04/05	23.94	21.92	25.18	25.43	5.51	1.77	7.57	28.8	4.9	9:55
08/11/05	24.47	22.31	24.81	25.70	6.51	0.68	7.70	28.2	3.2	9:10
08/18/05	24.22	23.44	24.83	25.40	4.65	2.18	7.46	22.6	5.5	10:35
08/25/05	23.99	23.96	25.57	26.15	4.58	4.00	7.54	21.5	3.1	8:50
09/01/05	23.05	23.01	26.58	26.63	5.18	4.70	7.62	25.3	4.6	9:22
09/08/05	23.03	22.90	26.39	26.77	8.14	4.59	7.99	24.3	3.0	10:03
09/15/05	Survey cancelled because of wind and rain.									
09/22/05	23.49	23.41	26.82	26.92	5.45	4.88	7.62	25.3	2.4	9:41
09/29/05	21.61	21.60	26.86	26.86	6.85	6.74	7.76	24.1	5.0	10:45
10/06/05	20.85	20.81	26.53	26.61	9.38	9.06	8.15	20.2	3.7	10:15

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

CSHH #8 - (Glen Cove Sewage Treatment Plant

6/2/2005	16.97	16.50	17.31	20.00	7.92	8.24	7.76	19.0	1.9	11:45
6/9/2005	20.15	19.50	17.02	19.99	8.99	8.81	7.90	28.0	1.7	10:50
6/16/2005	Cleanup of oil spill (6/15/05) in Glen Cove Creek prevented sampling by STP.									
06/23/05	19.39	19.11	23.83	24.39	7.00	6.38	7.91	23.1	3.3	11:05
06/30/05	20.19	19.38	24.29	24.63	5.10	4.97	7.44	24.8	2.4	10:05
07/07/05	20.62	20.57	24.70	24.78	6.25	6.16	7.79	20.7	2.0	9:30
07/14/05	22.62	22.31	23.85	24.29	5.10	3.92	7.60	26.5	2.0	9:20
07/21/05	25.45	25.39	23.19	23.97	8.35	7.75	7.97	29.2	3.1	9:50
07/28/05	24.16	23.45	21.60	24.95	4.61	4.07	7.41	25.4	1.5	10:50
08/04/05	24.51	23.33	21.74	25.23	5.44	2.97	7.43	31.2	3.2	10:20
08/11/05	25.38	24.13	23.69	25.09	7.95	4.40	7.48	30.6	1.5	9:35
08/18/05	24.26	24.12	22.05	25.02	3.31	2.72	7.34	24.4	3.8	11:05
08/25/05	24.63	24.22	25.81	25.95	3.61	3.72	7.41	22.4	1.4	9:30
09/01/05	24.23	23.38	24.50	26.33	6.06	4.22	7.64	26.2	3.2	9:46
09/08/05	23.74	23.44	25.68	26.35	7.93	6.33	7.92	25.0	1.7	10:20
09/15/05	Survey cancelled because of wind and rain.									
09/22/05	23.78	23.70	25.86	26.39	5.12	4.60	7.53	25.4	1.5	10:03
09/29/05	21.90	21.76	20.84	26.62	6.01	5.13	7.51	24.0	3.0	11:15
10/06/05	20.65	20.87	22.23	26.60	9.48	8.00	8.15	20.6	2.4	10:36



CSHH Water-Monitoring Program 2005

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time	
	Surface	Bottom	Surface	Bottom	Surface	Bottom					
CSHH #4 - Bar Beach Spit											
06/02/05	15.77	15.20	20.05	20.21	7.88	6.77	7.90	17.4	3.2	10:35	
08/04/05	25.25	22.40	24.90	25.33	7.23	1.53	7.72	30.6	6.1	11:15	
09/01/05	23.34	23.31	26.02	26.06	4.61	4.57	7.53	26.2	1.9	10:16	
9/29/2005	Abandoned station because of wind.										
CSHH #5 - Mott's Cove											
06/02/05	16.26	15.30	19.61	19.94	7.66	6.61	7.88	16.5	1.6	10:15	
08/04/05	24.42	23.38	25.06	25.19	4.45	2.45	7.37	29.9	2.0	11:40	
8/25/05	Clam kill between CSHH #5 and CSHH #6						1.50				
9/1/2005	22.97	23.05	26.08	26.20	3.68	3.46	7.45	27.0	1.6	10:28	
9/29/2005	21.20	21.41	26.25	26.57	6.02	5.29	7.61	22.7	1.6	9:05	
CSHH #6 - East of Former Incinerator Site											
6/2/2005	16.52	15.78	19.72	20.04	7.75	6.48	7.90	16.5	1.9	10:00	
08/04/05	25.23	24.66	24.85	25.02	4.73	4.76	7.40	31.4	1.9	11:55	
09/01/05	23.40	23.21	26.18	26.28	4.71	3.88	7.59	27.5	2.1	10:41	
09/29/05	21.18	21.19	26.27	26.32	5.22	5.74	7.59	22.9	2.0	9:20	
CSHH #7 - West of Bryant Landing (formerly site of oil dock)											
06/02/05	16.92	16.22	19.49	19.89	7.05	6.41	7.75	16.3	1.6	9:55	
8/4/2004	26.39	25.62	24.49	24.67	8.35	7.19	7.79	30.9	1.9	12:00	
09/01/05	23.82	23.73	25.53	25.76	6.17	5.68	7.72	28.2	1.5	10:51	
09/29/05	20.84	20.94	25.19	25.89	4.79	4.27	7.44	23.2	1.5	9:38	