

Water-Monitoring Report, October 4, 2005

Below is a copy of the sampling report update for Hempstead Harbor through **September 29** for the 2005 water-monitoring season. The narrative and data are provided by:



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A full survey of all eight stations was attempted, but high winds prevented sampling at two of the stations. Because of the incoming tide, sampling began in the lower-harbor stations.

DO

Bottom DO levels were considerably higher than those of the preceding week, ranging from about 4.3 ppm at CSHH #7 to 6.7 ppm at CSHH #3. Bottom water temperatures ranged from about 20.9°C to 21.9°C.

Color and Clarity

Secchi depth ranged from 0.5 m at CSHH # 7, the station furthest south in the harbor, near the Roslyn viaduct, to 1.75 m in other parts of the harbor, including CSHH #1, and the water color was a normal green. Because of the oncoming storm, waves were up to 3 feet, and winds were gusting to around 25 mph.

Observations

At the start of sampling, 9:00 am, the tide was incoming, with about 30 minutes to high tide. A fuel barge entered the harbor. Near CSHH # 1 and just southwest of Tappen Marina, a barge was tied off and was loaded with lots of dirt, old canisters, and two old tugboats.

As usual, gulls and terns dominated the scenery, along with 10 swans and 8 cormorants seen in the upper harbor. Twelve egrets were noted between CSHH #4 and CSHH # 7 in the lower harbor.



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

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.									



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

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



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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					
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	