

Water-Monitoring Report, October 27, 2008

Below is a copy of the sampling report update for Hempstead Harbor through October 21 for the 2008 water-monitoring season. The narrative and data are provided by:



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This program is funded by the **Hempstead Harbor Protection Committee** • 516-677-5790 • www.hempsteadharbor.org

Nine stations have been selected for full surveys, weekly to monthly, depending on tidal cycle, although there are a total of 13 stations at which samples are also collected for bacteria analysis that is conducted at the Nassau County Department of Health lab. If unusual conditions or discharges are visible, additional samples are collected for bacteria analysis.

As mentioned previously, we have added a new field in the attached spreadsheet to record NTUs for turbidity levels, in addition to our Secchi readings. We are attempting to see whether there is any correlation between Secchi depth in Hempstead Harbor and NTU readings and also to see whether NTU levels are below numeric standards that have been set in some states. Turbidity samples will now be taken at stations CSHH #1, #2, #7, #8, and #13 during full surveys; additional samples may be taken at other locations, depending on water and weather conditions. **On September 17, we started taking two turbidity readings at each designated station—one reading at a half meter below the surface, and one reading at the same depth as our Secchi reading for the station; the two NTU readings are included on the attached data sheet and separated by a slash, as in "2.10/2.19"(at half-meter below surface/at Secchi depth).**

OCTOBER 21

More wind (N-NE, up to 18 kts with higher gusts), with waves 1-3' in the middle of the harbor! We didn't attempt to go out to CSHH #2. It was partly cloudy. The tide was outgoing, with high tide at about 5:40 pm, so we did not survey lower-harbor stations. Only a trace amount of rain fell during the previous week (on October 20).

Temperature and DO

Air temperature remained chilly—at about 10°C throughout the sampling period. Water temperature dropped off substantially from the preceding week—14-15°C at both the surface and bottom. DO levels were at about 7-8 ppm at CSHH #1, 3, and 8 and at about 5 ppm at CSHH #13; bottom DO was at about 7-8 ppm at all four stations.

Color and Clarity

Water color was judged to be a normal green. Secchi depths ranged between 0.75 m and 1.2 m (turbidity-meter levels were 2.46-2.95 NTUs at a half meter below the surface and 3.01-3.25 NTUs at the station Secchi depths).

Observations

Wildlife

Only a few shrimp were present around the main dock at Tappen Marina. No comb jellies were noted. Not much bird activity was noted: 7 ducks, 3-dozen Canada geese, 8 cormorants, and 2 swans.

Human

Ten barges were on moorings by the Pt. Washington gravel operation. A boat was being towed from Tappen Marina to the Tappen boat launch. Three barges were tied off in Glen Cove Creek by the Rason plant—two side by side—and one barge was being unloaded of gravel.

OCTOBER 15

The wind was up again—at 9-18 kts N-NE at the start of the monitoring period and in upper harbor, falling off a bit in the lower harbor and in Glen Cove Creek. There were whitecaps at CSHH #2. Because of the tidal cycle (high tide at noon), we were able to get in a full survey of all stations, traveling first to upper-harbor stations. A mix of sun and clouds remained throughout the monitoring period. No rain fell during the previous 48 hours; total rainfall for the preceding week was only 3 mm.

Temperature and DO

Air temperature at the start of the sampling period was 16.4°C and warmed to about 19°C by the end of the sampling period. Water temperature was 18-19°C at the surface and about 18°C at the bottom for all stations. DO levels were 6-7 ppm at the surface for all stations but CSHH 5 (Motts Cove), which was just under 5 ppm; bottom DO was at 4-6 ppm, with no distinction between upper- and lower-harbor stations. DO levels were surprisingly low for this time of year.

Color and Clarity

Water color was judged to be a normal green, and Secchi depths ranged between 1 m and 1.8 m (turbidity-meter levels were 1.8-3.35 NTUs at a half meter below the surface and 1.81-3.41 NTUs at the station Secchi depths).

Observations

Wildlife

Tiny shrimp—too numerous to count—were still hanging around the main dock at Tappen Marina. Comb jellies were noted at CSHH #1, 4, and 6. The birds that were observed included 4 ducks, 28 cormorants (most were on pilings off the west shore in the lower harbor), 9 egrets, and 31 swans. One of the two duck blinds usually seen in the lower harbor had tall grasses wrapped around it for camouflage (it was of the north shore of Mott's Cove).

Striped Bass Survey

DEC marine biologist and fish and wildlife technician Jennifer O'Dwyer provided us with a preliminary report on the catch for five stations in Hempstead Harbor, on Wednesday, October 15, the last day of sampling in Hempstead Harbor for 2008. Here's Jennifer's report:

Our catches were really low, they usually drop off in October, and we had some serious net hang-ups as well. However here is what we caught:

Silversides=354

Killifish=187

Bluefish (yoy, snappers)=21

Bay Anchovy=304

Tautog (yearling)=1

Pipefish=1

Green Crabs=6

There was just a small amount of comb jellies and shrimp left in the water....

Human

Six Gladsky Marine barges were on a mooring off of the KeySpan/National Grid property. Eight barges were on moorings off of the Pt. Washington gravel operation; 1 tugboat was by shore and 1 tug was leaving the harbor with 4 barges. Two barges were in Glen Cove Creek at the Rason plant. Three barges with cranes were tied off the bulkhead at Hinfin with 2 tugboats; cement girders were on shore. The old barge with posts is still off shore of Hinfin. Three powerboats were noted. Three fishermen were at Bar Beach pier, one person was fishing off of a kayak, and four adults with two children were fishing off of Sterling Glen near the Roslyn viaduct.

OCTOBER 8

In direct contrast to conditions on October 2, the water was calm with no measurable wind for most of the monitoring period. Low tide prevented us from working below Bar Beach (now the southern portion of the Town of North Hempstead Beach Park). A mix of sun and clouds remained throughout the monitoring period. No rain fell during the previous 48 hours; total rainfall for the preceding week was 11 mm (in one event).

Temperature and DO

Air temperature at the start of the sampling period was a chilly 13°C but warmed to about 17°C by the end of the sampling period. Water temperature was 17-18°C at the surface and about 18°C at the bottom for stations CSHH #1, 2, and 3; water temperature at CSHH #8 (near the STP discharge pipe) stayed closer to 18°C, and water temperature was a little warmer at the head of Glen Cove Creek at CSHH #13—about 18-19°C, bottom to surface, respectively. DO levels were stronger for stations CSHH #1, 2, and 3: about 7ppm at the surface and 5-6 ppm at the bottom. At CSHH # 8 DO levels at surface and bottom were at about 5 ppm and 6 ppm, respectively; at CSHH #13, DO dropped to about 3 ppm at the surface and 4ppm at the bottom (possibly as a result of water entering from the large county discharge pipe in the area and Mill Pond).

Color and Clarity

Water color was judged to be a normal green and clearer than during the previous monitoring date. Secchi depths ranged between 1.2 m and 2.25 m (turbidity-meter levels were 1.39-2.71 NTUs at a half meter below the

surface and 1.61-3.21 NTUs at the station Secchi depths. Water color in Glen Cove Creek was more in line with rest of the harbor, as were NTU readings.

Observations

Wildlife

Tiny shrimp—too numerous to count—were still hanging around the main dock at Tappen Marina. Comb jellies—also too numerous to count—were back in view at all stations. The birds that were observed included 8 cormorants, 10 Canada geese, 1 belted kingfisher, and 13 swans.

Human

Six Gladsky Marine barges were on a mooring off of the KeySpan/National Grid property, and 2 of the barges had cranes; 15 barges were on moorings off of the Pt. Washington gravel operation, two barges were in Glen Cove Creek—one very large—at the Rason plant. Only 2 powerboats were noted. Less floatable debris was noted this week—at CSHH #13 there were 2 plastic beverage bottles. Excavation work was noted at Sea Isle.



CSHH Water-Monitoring Program 2008

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH (ppm)		Air Temp (°C)	Secchi(m)	Turbidity (NTUs)	Depth (m) (bottom)	Time (AM)
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom					
CSHH #1 - Beacon 11													
10/21/08	13.95	13.98	25.95	25.96	8.39	8.16	7.7	7.6	9.9	0.75	2.94/3.25	4.6	8:55
10/15/08	18.12	18.26	25.85	26.19	6.54	4.41	7.7	7.4	16.4	1.4	2.89/2.64	3.9	8:45
10/8/08	17.19	17.64	25.23	25.99	7.48	6.12	7.7	7.5	12.7	1.2	2.71/3.21	3.5	8:45
10/2/08	19.58	20.08	25.27	25.69	6.73	5.04	7.6	7.5	14.6	1.2	2.74/2.82	2.6	8:30
9/24/08	20.75	21.09	25.87	26.5	9.65	5.86	8.1	7.7	19.3	1.0	2.79/2.46	5.0	8:45
9/17/08	22.11	22.31	24.77	25.14	4.52	4.22	7.6	7.5	19.2	1.5	2.26/2.66	2.9	8:34
9/10/08	23.03	23.23	25.09	25.18	5.70	5.33	7.5	7.6	20.3	1.5	2.34	4.6	8:30
9/3/08	23.46	23.32	24.88	25.32	6.28	4.02	7.8	7.5	24.0	0.75	3.31	2.7	8:45
8/27/08	22.29	22.57	25.49	25.88	9.40	5.38	8.1	7.7	22.0	0.80	3.87	5.2	8:45
8/20/08	23.07	23.08	24.7	24.92	6.51	5.41	7.8	7.7	19.5	0.75	4.03	2.7	8:35
8/13/08	23.10	22.81	24.16	25.56	8.86	3.77	8.0	7.4	21.7	0.75	3.23	4.2	8:45
8/7/08	24.86	24.54	24.19	24.74	3.83	3.5	7.4	7.3	24.8	1.00	4.20	2.8	8:45
7/30/08	24.15	22.46	25.43	25.86	9.12	4.09	7.9	7.4	25.1	1.25		4.6	8:30
7/16/08	22.53	19.02	25.08	26.08	6.57	1.17	7.6	7.2	22.6	1.80	2.08	4.5	9:00
7/9/08	20.47	20.02	25.39	25.54	5.23	4.52	7.4	7.4	25.1	1.50	3.88	3.1	8:36
7/2/08	19.35	17.74	25.04	25.53	7.82	4.7	7.8	7.4	22.0	1.00	1.10	4.2	8:25
6/25/08	20.03	19.97	24.1	24.18	9.47	9.76	8.1	8.1	22.0	1.00		2.8	8:47
6/19/08	19.71	19.58	23.51	24.29	11.48	7.20	8.2	7.9	16.6	0.75		3.4	8:50
6/11/08	18.89	16.89	24.04	24.33	6.82	5.17	7.6	7.4	21.2	1.00		4.6	8:45
5/21/08	13.93	13.72	22.19	23.32	7.93	6.98	7.7	7.7	17.7	1.00		3.3	9:07
5/14/08	13.24	12.13	22.72	24.06	8.99	7.42	7.9	7.8	15.9	2.00		5.4	8:15
CSHH #2 - Bell Marker 6													
10/21/08	Station abandoned because of wind and waves.												
10/15/08	18.11	18.33	26.36	26.59	7.12	4.65	7.6	7.4	16.7	1.75	3.15/2.3	8.2	9:15
10/8/08	17.19	18.08	26.16	26.56	7.28	5.34	7.7	7.5	14.1	2.25	1.72/1.61	7.7	9:27
10/2/08	ABANDONED STATION BECAUSE OF WIND AND WAVES.												
9/24/08	20.47	20.52	26.32	26.68	8.79	7.37	8.1	7.8	18.8	1.60	1.94/1.78	7.3	10:15
9/17/08	21.95	22.22	25.79	26.11	5.79	3.32	7.8	7.6	20.2	2.00	1.52/1.14	6.6	9:05
9/10/08	23.22	23.23	25.42	25.51	7.37	6.53	8.0	7.9	19.9	1.50	2.78	7.4	9:00
9/3/08	23.07	22.80	25.72	26.21	5.96	4.13	7.7	7.5	23.8	1.50	2.20	6.3	9:10
8/27/08	22.41	22.34	26.11	26.18	6.81	6.01	7.9	7.8	22.4	1.50	1.76	7.8	10:25
8/20/08	Station abandoned because of wind and waves.												
8/13/08	23.07	22.02	25.75	25.87	8.38	5.51	8.0	7.7	25.6	1.50	1.40	8.8	9:18
8/7/08	24.10	21.99	25.64	26.23	10.04	1.28	8.1	7.2	27.4	1.00	2.30	7.7	9:22
7/30/08	23.88	20.70	25.87	26.18	11.80	1.37	8.3	7.2	26.7	0.75	4.60	9.2	10:15
7/16/08	22.40	18.35	25.64	26.15	8.67	2.87	8.0	7.3	24.6	2.00	1.50	8.3	10:36
7/9/08	20.57	18.89	25.81	26.02	8.15	3.94	7.9	7.4	26.1	2.00	1.76	7.6	9:17
7/2/08	19.15	16.82	25.62	25.87	10.28	5.30	8.2	7.5	24.9	1.50		9.5	10:25
6/25/08	19.77	16.04	25.14	25.60	11.01	4.15	8.3	7.4	21.9	1.25		7.4	9:15
6/19/08	20.27	16.84	24.59	25.41	11.57	6.35	8.4	7.8	16.8	2.00		7.7	9:30
6/11/08	18.27	15.20	24.57	24.86	9.58	8.54	8.0	7.6	23.7	1.50		8.5	9:35
5/21/08	Engine problems prevented monitoring at all stations.												
5/14/08	13.15	12.13	23.74	24.22	9.46	8.72	8.0	8.0	14.2	2.50		8.6	8:45
CSHH #3 - Glen Cove Creek, Red Marker													
10/21/08	14.63	14.78	26.30	26.75	7.57	7.49	7.71	7.7	10.4	1.00		3.6	9:25
10/15/08	18.17	18.35	26.19	26.41	6.17	5.29	7.53	7.4	16.6	1.75		4.7	9:40
10/8/08	17.69	17.93	25.51	26.24	6.92	6.12	7.63	7.6	13.8	2.00	1.39/1.79	4.0	9:55
10/2/08	19.93	19.97	25.80	25.81	9.45	9.45	8.0	8.0	16.0	1.00		2.7	9:10
9/24/08	21.02	20.82	25.77	26.66	9.33	6.62	8.0	7.7	19.5	1.20		4.6	10:43
9/17/08	22.21	22.47	25.43	25.88	5.64	4.81	7.7	7.6	20.0	1.80		3.9	9:35
9/10/08	22.94	23.25	24.56	25.44	7.44	6.03	8.0	7.8	20.2	1.00		4.8	9:25
9/3/08	23.43	23.33	25.21	25.74	8.53	5.49	8.1	7.7	26.1	0.80		2.8	9:37
8/27/08	22.73	22.37	25.55	26.03	7.36	5.62	7.9	7.7	22.8	1.50		5.0	10:50
8/20/08	22.96	23.16	25.26	25.49	8.14	6.11	8.1	7.9	19.5	1.00		3.8	9:55
8/13/08	23.10	22.98	24.76	25.65	9.72	6.90	8.1	7.9	25.2	1.25		5.1	9:40
8/7/08	24.68	23.96	25.12	25.54	8.67	5.67	8.0	7.6	29.1	1.00		3.3	9:40
7/30/08	24.17	21.71	25.54	26.03	10.48	2.99	8.2	7.3	29.3	1.25	1.57	5.2	10:45
7/16/08	22.92	18.94	25.38	26.04	6.97	2.26	7.7	7.2	25.7	2.25		4.9	11:00
7/9/08	21.22	19.25	24.89	25.82	7.83	4.46	7.7	7.4	26.1	1.50	1.66	3.4	9:45



CSHH Water-Monitoring Program 2008

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH (ppm)		Air Temp (°C)	Secchi(m)	Turbidity (NTUs)	Depth (m) (bottom)	Time (AM)
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom					
7/2/08	19.99	17.65	25.43	25.68	10.02	5.59	8.2	7.6	24.2	1.50		5.4	10:50
6/25/08	21.01	19.21	22.78	25.10	8.68	9.90	8.1	8.0	22.4	1.50		3.1	9:45
6/19/08	20.26	18.68	24.22	25.04	12.08	5.62	8.4	7.6	17.8	1.20		4.3	10:10
6/11/08	20.42	16.80	23.4	24.53	9.78	7.06	8.0	7.7	24.6	1.25		4.1	10:00
5/21/08	13.89	13.44	22.68	23.06	8.57	8.70	7.8	7.8	16.3	1.75		3.8	9:45
5/14/08	13.19	12.20	23.45	24.32	9.56	8.45	8.0	7.9	14.0	2.50		4.9	10:15

CSHH #8 - Glen Cove Sewage Treatment Plant Outfall

10/21/08	15.47	14.63	25.79	26.64	6.64	7.01	7.6	7.7	9.9	1.30	2.46/3.01	3.2	9:55
10/15/08	18.63	18.25	25.73	26.14	6.48	6.06	7.5	7.5	17.7	1.80	1.8/1.81	4.5	10:08
10/8/08	18.65	17.96	25.95	26.07	5.23	5.65	7.5	7.5	14.5	1.75	2.13/1.7	3.0	10:15
10/2/08	18.60	20.69	20.70	25.74	8.51	7.38	7.8	7.7	14.9	1.00	2.48/3.24	2.3	9:45
9/24/08	21.01	21.32	25.62	26.50	9.58	4.61	8.1	7.5	18.7	1.00	1.96/1.58	3.3	11:05
9/17/08	22.50	22.52	23.65	25.65	4.92	4.09	7.60	7.6	19.3	1.90	2.10/2.19	2.9	10:05
9/10/08	23.32	23.56	20.25	25.41	5.90	4.06	7.8	7.6	20.1	1.25	2.76	3.2	9:45
9/3/08	24.04	23.27	24.48	25.78	8.37	3.40	8.0	7.5	25.1	0.75	4.13	2.6	10:00
8/27/08	23.02	22.42	23.92	25.75	5.96	5.76	7.6	7.7	22.8	1.25	2.88	4.2	11:05
8/20/08	23.69	23.57	24.64	25.28	8.31	4.64	7.8	7.5	19.7	1.25	2.69	3.1	10:40
8/13/08	22.97	22.91	23.74	25.28	8.73	2.34	8.0	7.4	27.2	1.00	2.17	4.2	10:10
8/7/08	24.41	24.01	24.65	25.52	6.58	5.20	7.7	7.6	26.8	1.25	3.82	2.5	10:18
7/30/08	24.36	22.27	24.91	25.76	11.95	3.16	8.3	7.4	31.7	1.00		4.4	11:10
7/16/08	22.31	20.97	22.95	25.75	6.87	3.67	7.6	7.3	28.8	0.75	2.64	4.6	11:13
7/9/08	21.83	19.99	23.78	25.58	10.37	5.26	7.9	7.4	27.7	1.00	3.65	2.5	10:13
7/2/08	21.01	18.90	23.34	25.47	8.98	7.23	7.9	7.8	27.0	1.00	2.78	4.9	11:15
6/25/08	20.65	19.59	17.99	24.88	10.90	9.75	8.0	8.0	23.9	1.25		2.2	10:16
6/19/08	20.22	20.02	21.85	24.47	11.47	8.90	8.3	8.0	20.1	1.00	4.53	3.8	10:40
6/11/08	20.07	17.63	19.30	24.31	8.25	6.36	7.7	7.5	27.4	1.25	4.97	2.8	10:50
5/21/08	13.87	13.72	20.86	23.36	8.58	7.29	7.7	7.7	17.8	1.00		3.3	10:15
5/14/08	13.93	12.71	17.26	23.97	8.93	6.32	7.8	7.6	20.8	2.00		4.2	10:45

CSHH #13 - 60' West of the Mill Pond Weir

10/21/08	15.43	14.34	25.70	26.42	5.42	7.10	7.47	7.67	10.2	1.20	2.95/3.01	2.5	10:18
10/15/08	18.69	18.47	25.32	25.89	6.00	4.58	7.47	7.34	18.5	1.25	2.95/3.41	3.2	10:30
10/8/08	18.59	18.31	25.78	26.05	3.38	3.80	7.30	7.30	17.1	1.80	1.89/2.12	2.5	10:43
10/2/08	18.80	20.07	16.26	23.90	8.49	6.20	7.37	7.37	15.3	1.10	2.21/3.41	1.2	10:02
9/24/08	21.35	21.39	25.68	26.29	7.36	4.78	7.71	7.43	20.8	1.00	3.08/3.42	2.0	11:30
9/17/08	22.80	22.73	25.03	25.62	3.16	2.13	7.4	7.4	21.3	2.00	2.37/3.51	3.6	10:25
9/10/08	23.26	23.61	24.25	25.40	7.38	3.15	7.7	7.3	20.7	1.00	4.05/3.27	3.1	10:00
9/3/08	23.58	23.42	23.54	24.87	7.81	5.52	7.8	7.6	24.1	0.75	4.66	1.3	10:20
8/27/08	22.88	22.78	24.81	25.73	5.35	4.55	7.5	7.5	23.3	1.25	2.35	2.7	11:30
8/20/08	23.44	23.44	24.58	24.94	3.10	2.08	7.5	7.3	21.1	1.25	4.53	3.5	11:05
8/13/08	23.06	23.01	23.86	24.7	5.95	4.59	7.6	7.5	27.4	1.30	2.68	3.1	10:30
8/7/08	24.18	23.49	24.69	25.30	3.95	2.23	7.5	7.3	28.3	1.50	3.94	2.3	10:35
7/30/08	24.10	23.52	24.86	25.51	10.69	6.24	8.0	7.6	31.7	1.00		3.6	11:30
7/16/08	22.65	20.47	24.65	25.61	8.66	1.66	7.8	7.1	29.6	1.00	3.78	4.4	11:41
7/9/08	18.58	20.27	21.07	24.77	8.44	7.21	7.5	7.4	27.7	1.00	3.45	1.1	10:30
7/2/08	20.53	18.78	16.27	25.35	9.75	4.81	7.9	7.4	26.6	1.00		3.9	11:35
6/25/08	18.31	18.68	4.60	24.83	13.06	6.70	7.9	7.5	23.9	-----		2.4	10:30
6/19/08	19.86	18.96	21.67	24.21	11.92	4.82	8.1	7.4	20.4	1.00		4.1	11:00
6/11/08	20.25	17.16	17.30	24.18	14.40	2.91	8.4	7.2	27.1	1.00		2.9	11:15

CSHH #4 - Bar Beach Spit

10/15/08	18.09	18.09	26.01	26.02	5.61	5.59	7.47	7.5	19.4	1.50		4.6	11:00
8/27/08	22.52	22.51	25.55	25.60	6.86	6.46	7.9	7.8	21.6	0.80		2.0	10:05
7/30/08	24.19	23.66	25.37	25.64	10.41	7.87	8.1	7.8	27.2	0.60		2.3	8:50
7/16/08	22.13	19.80	25.31	25.92	5.46	1.70	7.5	7.2	22.7	1.50		5.9	9:16
7/2/08	19.32	17.97	25.06	25.49	7.55	4.67	7.8	7.5	23.3	0.75		6.4	8:45

CSHH #5 - Mott's Cove

10/15/08	18.22	18.28	25.60	26.03	4.82	4.62	7.4	7.3	19.3	1.50		2.2	11:15
8/27/08	22.49	22.49	25.12	25.45	8.74	6.55	8.0	7.9	21.0	0.75		1.9	9:50



CSHH Water-Monitoring Program 2008

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH (ppm)		Air Temp (°C)	Secchi(m)	Turbidity (NTUs)	Depth (m) (bottom)	Time (AM)
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom					
7/30/08	23.87	23.72	25.09	25.46	6.64	5.72	7.6	7.6	27.4	0.75		1.8	9:10
7/16/08	21.33	21.22	25.31	25.52	2.99	2.98	7.3	7.2	23.0	1.25		1.6	9:35
7/2/08	19.00	18.93	25.06	25.09	5.59	5.58	7.5	7.5	23.6	0.75		1.5	9:05

CSHH #6 - East of Former Incinerator Site

10/15/08	18.22	18.20	25.31	25.95	5.62	4.80	7.4	7.4	19.8	1.50		5.8	11:28
8/27/08	22.51	22.44	24.90	25.14	9.57	7.66	8.1	8.0	22.3	0.75		2.1	9:35
7/30/08	24.61	24.17	25.08	25.40	7.84	5.90	7.7	7.6	28.0	0.75		2.1	9:30
7/16/08	23.08	22.10	24.74	25.27	5.73	4.16	7.4	7.3	24.2	1.00		1.9	9:53
7/2/08	19.20	19.09	25.10	25.12	6.36	5.81	7.6	7.6	24.6	1.00		2.6	9:28

CSHH #7 - West of Bryant Landing (formerly site of oil dock)

10/15/08	18.04	18.20	24.48	25.33	5.57	5.37	7.4	7.4	18.6	1.00	3.35/3.27	2.1	11:50
8/27/08	21.93	22.44	23.76	24.75	9.97	8.33	8.1	8.0	21.0	0.50	6.35	1.9	9:15
7/30/08	24.73	24.65	24.79	24.98	8.22	5.41	7.8	7.5	28.6	0.25	5.70	1.4	9:45
7/16/08	23.41	23.15	24.40	24.59	7.30	6.84	7.6	7.6	23.8	0.75		1.6	10:05
7/2/08	20.35	20.06	24.45	24.62	7.00	6.44	7.6	7.6	24.6	1.00	4.94	1.5	9:40

x