

2018 Unified Water Study: Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Military Time (hhmm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (hhmm)	Time of Low Tide, Military Time (hhmm)	Time of High Tide, 24 Hour Time (M:mm)	Time of Low Tide, 24 Hour Time (M:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation Size	Cumulative Precipitation for previous 2 Days (not sample dates) (inches)	Cumulative Precipitation for previous 7 Days (not sample dates) (inches)	Cumulative Precipitation for 2 Days (sample dates) (inches)	Cumulative Precipitation for 4 Days (sample dates) (inches)	Cumulative Precipitation for 7 Days (sample dates) (inches)	Morning Wind at Embayment (Beaufort scale)	Notes
ALE-01	Alewife Cove	CT	41.31814	-72.10449	5/29/2018	7:15	0715															0.50	15.48	28.72	96.80	8.12	18.76	1001	1622	10:01	16:22	17.2	11.1	100	fog	0.00	0.20	0.00	0.00	0.03	1	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-01	Alewife Cove	CT	41.31814	-72.10449	6/8/2018	6:57	0657															0.61	19.16	27.93	106.80	8.40	1.34	10.25	0705	1330	7:05	13:30	17.2	12.2	80	none	0.00	2.19	0.00	0.02	1.93	3	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	6/22/2018	7:19	0719															0.51	23.30	29.25	122.10	8.85	1.62	13.51	1200	0539	12:00	5:39	22.0	17.0	13	none	0.13	0.33	0.13	0.13	0.15	4	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	7/10/2018	7:08	0708															0.57	23.13	29.34	92.40	6.71	15.41	0727	0151	7:27	1:51	26.1	13.8	8	none	0.00	0.85	0.00	0.00	0.85	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-01	Alewife Cove	CT	41.31814	-72.10449	7/21/2018	6:58	0658															0.65	24.08	29.74	99.00	7.07	6.87	13.19	1711	1133	17:11	11:33	25.0	15.0	10	none	0.00	0.44	0.00	0.03	0.44	5	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	8/3/2018	6:55	0655															0.56	26.33	29.30	79.50	5.42	1.28	13.97	1458	0854	14:58	8:54	28.8	22.7	20	none	0.01	0.64	0.01	0.01	0.62	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	8/17/2018	7:45	0745															0.44	25.10	29.90	98.00	6.84	1.72	21.79	0235	0911	2:35	9:11	28.0	22.0	5	none	0.00	0.59	0.00	0.00	0.59	1	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	9/3/2018	7:18	0718															0.50	25.40	29.15	85.40	6.02	2.36	16.25	0841	1011	3:41	10:11	28.0	21.0	30	none	0.00	0.00	0.00	0.00	0.00	1	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	9/16/2018	8:04	0804															0.48	24.64	28.14	85.60	6.19	2.26	13.81	0305	0936	3:05	9:36	24.0	16.0	100	fog	0.00	1.51	0.00	0.02	1.51	0	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	9/30/2018	8:18	0818															0.46	20.79	26.31	64.00	4.84	< 1	13.32	1239	0854	12:39	8:54	24.0	20.0	100	fog	0.00	2.04	0.00	0.05	2.04	0	Season average linear regression results applied to chlorophyll data. Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	10/16/2018	8:23	0823															0.53	18.51	27.36	42.00	3.30	1.04	3.28	0335	1001	3:35	10:01	21.0	8.0	0	none	0.00	0.00	0.00	0.00	0.00	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-01	Alewife Cove	CT	41.31814	-72.10449	10/31/2018	8:30	0830															0.21	14.24	28.53	97.50	8.38	1.51	17.62	0310	0942	3:10	9:42	11.0	6.0	5	none	0.00	0.00	0.00	0.00	0.00	3	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	5/29/2018	7:27	0727															0.30	13.93	29.01	97.90	8.46	8.85	3001	1622	10:01	16:22	17.2	11.1	100	fog	0.00	0.20	0.00	0.00	0.03	1	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-02	Alewife Cove	CT	41.31364	-72.10069	6/8/2018	7:11	0711															0.45	18.69	27.89	105.70	8.43	1.54	7.75	0705	1330	7:05	13:30	17.2	12.2	80	none	0.00	2.19	0.00	0.02	1.93	3	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	6/22/2018	7:31	0731															0.43	19.29	29.25	97.11	7.51	1.94	7.16	1200	0539	12:00	5:39	22.0	17.0	13	none	0.13	0.33	0.13	0.13	0.15	4	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	7/10/2018	7:20	0720															0.41	19.58	30.10	85.40	6.59	4.03	0727	0151	7:27	1:51	26.1	13.8	8	none	0.00	0.85	0.00	0.00	0.85	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-02	Alewife Cove	CT	41.31364	-72.10069	7/21/2018	7:14	0714															0.46	21.80	29.93	92.00	6.87	2.18	7.32	1711	1133	17:11	11:33	25.0	15.0	10	none	0.00	0.44	0.00	0.03	0.44	5	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	8/3/2018	7:13	0713															0.36	24.78	29.82	85.80	5.96	1.15	6.82	1458	0854	14:58	8:54	28.8	22.7	20	none	0.01	0.64	0.01	0.01	0.62	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	8/17/2018	7:57	0757															0.45	23.35	30.36	87.30	6.32	1.80	11.37	0235	0911	2:35	9:11	28.0	22.0	5	none	0.00	0.59	0.00	0.00	0.59	1	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	9/3/2018	7:29	0729															0.51	24.45	29.36	79.40	5.68	1.84	9.03	0341	1011	3:41	10:11	28.0	21.0	30	none	0.00	0.00	0.00	0.00	0.00	1	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	9/16/2018	8:18	0818															0.35	23.71	28.37	88.10	6.42	1.48	9.87	0305	0936	3:05	9:36	24.0	16.0	100	fog	0.00	1.51	0.00	0.02	1.51	0	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	9/30/2018	8:36	0836															0.45	19.79	25.64	75.30	5.94	1.09	7.77	1239	0854	12:39	8:54	24.0	20.0	100	fog	0.00	2.04	0.00	0.05	2.04	0	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	10/16/2018	8:27	0827															0.36	15.39	23.37	72.50	6.38	< 1	2.39	0335	1001	3:35	10:01	21.0	8.0	0	none	0.00	0.00	0.00	0.00	0.00	4	Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-02	Alewife Cove	CT	41.31364	-72.10069	10/31/2018	8:42	0842															0.43	13.78	29.07	93.60	8.19	1.56	40.07	0310	0942	3:10	9:42	11.0	6.0	5	none	0.00	0.00	0.00	0.00	0.00	3	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-03	Alewife Cove	CT	41.30898	-72.10343	5/29/2018	7:44	0744															0.49	13.57	28.78	99.20	8.65	8.71	1001	1622	10:01	16:22	17.2	11.1	100	fog	0.00	0.20	0.00	0.00	0.03	1	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-03	Alewife Cove	CT	41.30898	-72.10343	6/8/2018	7:26	0726															0.75	15.94	29.10	103.40	8.63	1.36	6.28	0705	1330	7:05	13:30	17.2	12.2	80	none	0.00	2.19	0.00	0.02	1.93	3	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-03	Alewife Cove	CT	41.30898	-72.10343	6/22/2018	7:42	0742															0.68	19.30	29.65	100.70	7.84	7.85	5.23	1200	0539	12:00	5:39	22.0	17.0	13	none	0.13	0.33	0.13	0.13	0.15	4	Season average linear regression results applied to chlorophyll data. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-03	Alewife Cove	CT	41.30898	-72.10343	7/10/2018	7:32	0732															0.45	21.89	29.72	83.10	6.16	6.06	0727	0151	7:27	1:51	26.1	13.8	8	none	0.00	0.85	0.00	0.00	0.85	4	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
ALE-03	Alewife Cove	CT	41.30898	-72.10343	7/21/2018	7:26	0726															0.54	22.02	30.09	87.50	6.49	1.68	8.81	1711	1133	17:11	11:33	25.0	15.0	10	none	0.00	0.44	0.00	0.03	0.44	5	Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.
ALE-03																																											

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Military Time (hhmm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (hhmm)	Time of Low Tide, Military Time (hhmm)	Time of High Tide, 24-Hour Time (M:mm)	Time of Low Tide, 24-Hour Time (M:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation State	Cumulative Precipitation for previous 2 consecutive sample dates (inches)	Cumulative Precipitation for previous 7 Days (includes sample dates) (inches)	Cumulative Precipitation for 4 Days (includes sample dates) (inches)	Cumulative Precipitation for 7 Days (includes sample dates) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
CTR-01	Connecticut River	CT	41.35200	-72.38420	5/9/2018	6:25	0625	0.65	13.70	< 0.1	98.10	10.16		2.14	3.85	13.70	< 0.1	98.20	10.17		2.04							0104	0710	1:04	7:10	21.7	7.8	100	fog	0.00	0			2	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-01	Connecticut River	CT	41.35197	-72.38422	5/24/2018	6:30	0630	0.59	18.85	< 0.1	96.80	8.96		5.56	4.62	18.85	< 0.1	98.70	9.09		5.88							0146	0743	1:46	7:43	28.9	10.6	0	none	0.00	0			1	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-01	Connecticut River	CT	41.35197	-72.38415	6/7/2018	7:40	0740	0.51	20.27	1.60	115.50	10.33	2.77	29.27	3.95	19.17	8.18	105.40	9.25	3.37	3.37							0026	0620	0:26	6:20	20.0	10.0	80	none	0.00	0.00			1	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-01	Connecticut River	CT	41.35199	-72.38418	6/22/2018	6:45	0645	0.59	24.50	1.60	105.30	8.69	4.18	10.53	4.50	23.88	5.23	100.90	8.18	6.61	8.76							0128	0718	1:28	7:18	28.9	17.8	15	none	0.00	0.00			2	Season average linear regression results applied to chlorophyll data.	
CTR-01	Connecticut River	CT	41.35197	-72.38417	7/6/2018	6:55	0655	0.43	27.90	2.41	88.90	6.85	6.43	9.91	4.21	25.93	10.11	87.00	6.62	15.10	11.80							1157	0530	11:57	5:30	30.6	22.8	100	none	0.00	0.00			3		
CTR-01	Connecticut River	CT	41.35199	-72.38422	7/20/2018	7:04	0704	0.53	26.83	3.25	98.30	7.69	5.98	14.68	4.19	25.89	8.54	101.60	6.80	12.64	13.96							0003	0545	0:03	5:45	27.8	15.0	85	missing rain	0.01	0.61			2	Season average linear regression results applied to chlorophyll data.	
CTR-01	Connecticut River	CT	41.35199	-72.38425	8/2/2018	7:25	0725	0.49	25.83	0.21	78.30	6.38	9.96	8.13	3.63	25.83	0.21	79.90	6.49	12.64	10.22							0359	1032	3:59	10:32	27.8	21.1	20	none	0.00	0.00			1		
CTR-01	Connecticut River	CT	41.35199	-72.38429	8/17/2018	7:50	0750	0.48	24.63	< 0.1	80.70	6.74	3.42	3.64	3.59	24.63	< 0.1	83.70	6.96	4.36	3.43							0414	1049	4:14	10:49	21.4	20.8	0	fog	0.00	0.00			1	Salinity value below detection limit.	
CTR-01	Connecticut River	CT	41.35197	-72.38429	8/31/2018	7:22	0722	0.50	25.74	0.23	90.40	7.38	9.11	12.32	3.51	25.74	0.23	95.20	7.76	13.38	13.64							0244	0909	2:44	9:09	22.0	20.8	80	none	0.00	0.00			2		
CTR-01	Connecticut River	CT	41.35199	-72.38425	9/14/2018	7:47	0747	0.47	21.08	0.16	82.30	7.35	4.15	4.50	3.54	21.04	0.15	84.80	7.55	6.11	4.50							0251	0920	2:51	9:20	25.0	17.5	5	none	1.42	2.55			1		
CTR-01	Connecticut River	CT	41.35204	-72.38428	9/22/2018	8:10	0810	0.49	18.17	< 0.1	90.30	8.52	7.27	1.93	3.27	17.88	< 0.1	92.20	8.79	9.16	1.63							1312	0710	13:12	7:10	25.0	15.1	80	none	0.09	0.09			2	Salinity value below detection limit.	
CTR-01	Connecticut River	CT	41.35194	-72.38421	10/14/2018	8:19	0819	0.46	15.76	< 0.1	80.20	8.02	4.05	2.23	3.63	15.79	< 0.1	83.20	8.23	4.30	2.86							0941	0316	9:41	3:16	12.1	2.0	80	none	0.77	1.90			1	Salinity value below detection limit. Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.	
CTR-01	Connecticut River	CT	41.35195	-72.38422	10/25/2018	9:19	0919	0.48	9.68	< 0.1	94.30	10.73	1.49	0.92	3.83	9.72	< 0.1	96.80	11.02	2.33	1.01							1159	0559	11:59	5:59	11.3	0.2	50	none	0.26	0.32			4	Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34842	-72.38390	5/9/2018	6:20	0620	0.65	13.72	< 0.1	99.30	10.27		1.95	2.61	13.72	< 0.1	100.40	10.35		2.05							0104	0710	1:04	7:10	21.7	7.8	100	fog	0.00	0			2	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34832	-72.38385	5/24/2018	6:16	0616	0.58	18.79	< 0.1	96.20	9.91		5.99	2.25	18.82	< 0.1	96.80	8.97		7.60							0146	0743	1:46	7:43	28.9	10.6	0	none	0.00	0			1	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34828	-72.38388	6/7/2018	6:14	0614	0.54	20.28	2.01	115.10	10.26	1.81	29.14	2.25	20.02	4.34	112.60	9.95	1.92	29.69							0026	0620	0:26	6:20	20.0	10.0	80	none	0.00	0.00			1	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34849	-72.38379	6/22/2018	6:28	0628	0.53	24.50	0.83	100.20	8.63	3.13	18.35	2.93	24.14	4.18	103.70	8.26	8.12	10.67							0128	0718	1:28	7:18	28.9	17.8	15	none	0.00	0.00			2	Season average linear regression results applied to chlorophyll data.	
CTR-02	Connecticut River	CT	41.34835	-72.38380	7/6/2018	6:45	0645	0.43	27.49	3.12	89.70	6.94	2.97	6.82	2.47	26.24	8.30	91.60	6.99	6.25	9.26							1157	0530	11:57	5:30	30.6	22.8	100	none	0.00	0.00			3		
CTR-02	Connecticut River	CT	41.34841	-72.38390	7/20/2018	6:57	0657	0.53	26.82	2.96	100.00	7.82	3.99	15.43	2.22	26.70	7.62	103.80	7.97	7.97	16.29							0003	0545	0:03	5:45	27.8	15.0	85	missing rain	0.01	0.61			2	Season average linear regression results applied to chlorophyll data.	
CTR-02	Connecticut River	CT	41.34844	-72.38393	8/2/2018	7:19	0719	0.46	25.75	0.82	77.10	6.28	4.54	7.09	1.92	25.76	0.88	79.00	6.40	4.72	8.42							0359	1032	3:59	10:32	27.8	21.1	20	none	0.00	0.00			1		
CTR-02	Connecticut River	CT	41.34831	-72.38380	8/17/2018	7:43	0743	0.43	24.52	< 0.1	84.50	7.50	4.48	3.21	1.57	24.51	< 0.1	83.30	7.38	8.47	3.39							0414	1049	4:14	10:49	21.4	20.8	0	fog	0.00	0.00			1	Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34826	-72.38380	8/31/2018	7:17	0717	0.49	25.90	0.83	94.60	7.68	3.93	10.80	1.25	25.86	0.80	97.30	7.90	4.12	12.16							0244	0909	2:44	9:09	22.0	20.8	80	none	0.00	0.00			2		
CTR-02	Connecticut River	CT	41.34834	-72.38383	9/14/2018	7:42	0742	0.47	20.75	0.12	87.20	7.81	5.00	3.77	1.49	20.75	0.12	88.60	7.97	5.20	3.12							0251	0920	2:51	9:20	25.0	17.5	5	none	1.42	2.55			1		
CTR-02	Connecticut River	CT	41.34840	-72.38375	9/22/2018	8:05	0805	0.52	18.33	< 0.1	87.90	8.28	8.06	1.98	1.71	18.31	< 0.1	90.00	8.57	15.10	1.92							1312	0710	13:12	7:10	25.0	15.1	80	none	0.09	0.09			2	Salinity value below detection limit.	
CTR-02	Connecticut River	CT	41.34841	-72.38390	10/14/2018	8:05	0805	0.50	16.21	< 0.1	85.30	8.39	3.61	1.91	1.89	16.14	< 0.1	90.00	8.93	4.49	2.11							0941	0316	9:41	3:16	12.1	2.0	80	none	0.77	1.90			1	Salinity value below detection limit. Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.	
CTR-02	Connecticut River	CT	41.34844	-72.38397	10/25/2018	9:11	0911	0.48	9.68	< 0.1	95.10	10.83	1.16	0.88	2.13	9.68	< 0.1	97.60	11.12	2.26	1.11							1159	0559	11:59	5:59	11.3	0.2	50	none	0.26	0.32			4	Salinity value below detection limit.	
CTR-03	Connecticut River	CT	41.34416	-72.37888	5/9/2018	6:30	0630	0.66	13.71	< 0.1	99.20	10.27		1.97	2.76	13.70	< 0.1	100.50	10.37		1.85							0104	0710	1:04	7:10	21.7	7.8	100	fog	0.00	0			2	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-03	Connecticut River	CT	41.34470	-72.37854	5/24/2018	6:30	0630	0.58	18.85	< 0.1	95.50	8.85		7.04	4.96	18.85	< 0.1	96.30	8.91		7.56							0146	0743	1:46	7:43	28.9	10.6	0	none	0.00	0			1	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-03	Connecticut River	CT	41.34416	-72.37888	6/7/2018	6:07	0607	0.58	20.19	2.66	113.30	10.07	2.83	42.06	3.69	19.33	7.53	110.00	9.62	2.24	27.71							0026	0620	0:26	6:20	20.0	10.0	80	none	0.00	0.00			1	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
CTR-03	Connecticut River	CT	41.34416	-72.37876	6/22/2018	6:15	0615	0.52	24.27																																	

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:MM)	Time on Station, Midday Time (MM:SS)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Midday Time (MM:SS)	Time of Low Tide, Midday Time (MM:SS)	Time of High Tide, 24 Hour Time (M:MM)	Time of Low Tide, 24 Hour Time (M:MM)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation State	Morning Precipitation State	Cumulative Precipitation for previous 2 days (inches)	Cumulative Precipitation for previous 7 days (inches)	Cumulative Precipitation for 14 days (inches)	Cumulative Precipitation for 21 days (inches)	Cumulative Precipitation for 28 days (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
CTR-07	Connecticut River	CT	41.34653	-72.37496	8/17/2018	7:19	0719	0.46	24.45	< 0.1	82.90	6.94	2.78	2.68	3.64	24.45	< 0.1	83.20	6.96	4.94	2.70							0414	1049	4:14	10:49	21.4	20.8	0	fog	0.00	0.00					1	Salinity value below detection limit.	
CTR-07	Connecticut River	CT	41.34685	-72.37523	8/30/2018	6:53	0653	0.52	26.48	0.62	100.90	8.11	1.63	10.31	3.69	26.48	0.62	104.20	8.37	5.02	9.30							0244	0909	2:44	9:09	22.0	20.8	80	none	0.00	0.00					2		
CTR-07	Connecticut River	CT	41.34690	-72.37531	9/14/2018	7:23	0723	0.46	20.72	0.10	90.30	8.12	3.17	2.77	3.85	20.72	0.10	95.80	8.23	3.59	2.50							0551	0920	2:51	9:20	25.0	17.5	5	none	1.42	2.55					1		
CTR-07	Connecticut River	CT	41.34674	-72.37520	9/27/2018	7:50	0750	0.48	17.75	< 0.1	87.00	8.31	12.39	1.71	3.23	17.75	< 0.1	88.50	8.45	12.55	1.60							1312	0710	13:12	7:10	25.0	15.1	80	none	0.09	0.09					2	Salinity value below detection limit.	
CTR-07	Connecticut River	CT	41.34674	-72.37511	10/14/2018	7:35	0735	0.51	16.71	< 0.1	83.70	8.21	2.72	1.66	3.51	16.72	< 0.1	85.40	8.35	4.12	1.77							0941	0316	9:41	3:16	12.1	2.0	80	none	0.77	1.90					4	Salinity value below detection limit. Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.	
CTR-07	Connecticut River	CT	41.34652	-72.37505	10/25/2018	8:46	0846	0.48	9.79	< 0.1	93.30	10.61	1.55	0.89	3.43	9.81	< 0.1	94.90	10.80	2.39	0.89							1159	0559	11:59	5:59	11.3	0.2	50	none	0.26	0.32					1	Salinity value below detection limit.	
CTR-08	Connecticut River	CT	41.34011	-72.36533	5/9/2018	5:50	0550	0.62	13.68	< 0.1	99.30	10.28		2.01	8.24	13.68	< 0.1	99.30	10.28		1.68							0104	0710	1:04	7:10	21.7	7.8	100	fog	0.00	0					2	Season average linear regression results applied to chlorophyll data. Salinity value below detection limit.	
CTR-08	Connecticut River	CT	41.34017	-72.36627	5/24/2018	6:00	0600	0.43	18.76	0.10	95.10	8.83		7.36	6.22	18.76	0.10	95.60	8.86		9.57							0146	0743	1:46	7:43	29.8	10.6	0	none	0.00	0					1	Season average linear regression results applied to chlorophyll data.	
CTR-08	Connecticut River	CT	41.33970	-72.36507	6/7/2018	5:58	0558	0.60	20.32	2.46	113.20	10.50	1.65	35.28	7.89	18.11	12.91	104.80	9.11	14.01	25.80							0026	0620	0:26	6:20	20.0	10.0	80	none	0.00	0.00					1		
CTR-08	Connecticut River	CT	41.34044	-72.36597	6/22/2018	6:03	0603	0.53	24.47	1.37	101.70	8.42	2.11	14.77	9.71	23.44	7.28	94.40	7.63		11.35							0128	0718	1:28	7:18	28.9	17.8	15	none	0.00	0.00					2	Season average linear regression results applied to chlorophyll data.	
CTR-08	Connecticut River	CT	41.34025	-72.36521	7/6/2018	6:22	0622	0.43	27.36	3.72	97.20	7.50	1.85	6.23	8.75	23.63	17.91	90.20	6.84	8.12	8.84							1157	0530	11:57	5:30	30.6	22.8	100	none	0.00	0.00					3		
CTR-08	Connecticut River	CT	41.34010	-72.36538	7/20/2018	6:35	0635	0.53	26.61	2.31	99.20	7.89	2.22	13.41	8.36	24.28	15.80	99.80	7.56	10.84	9.75							0003	0545	0:03	5:45	27.8	15.0	85	missing rain	0.01	0.61					2	Season average linear regression results applied to chlorophyll data.	
CTR-08	Connecticut River	CT	41.34076	-72.36588	8/2/2018	7:01	0701	0.51	25.89	1.38	83.90	6.83	2.44	5.34	8.46	24.01	18.29	81.40	6.18	6.00	8.36							0359	1032	3:59	10:32	27.8	21.1	20	none	0.00	0.00					1		
CTR-08	Connecticut River	CT	41.34011	-72.36551	8/17/2018	7:25	0725	0.43	24.44	< 0.1	82.10	6.89	3.70	2.51	8.18	24.44	< 0.1	83.90	7.02	5.04	2.64							0414	1049	4:14	10:49	21.4	20.8	0	fog	0.00	0.00					1	Salinity value below detection limit.	
CTR-08	Connecticut River	CT	41.33991	-72.36504	8/31/2018	7:03	0703	0.51	26.26	0.81	99.50	8.02	3.12	10.20	7.07	25.00	16.68	97.60	7.40	3.50	9.48							0244	0909	2:44	9:09	22.0	20.8	80	none	0.00	0.00					2		
CTR-08	Connecticut River	CT	41.34027	-72.36615	9/14/2018	7:28	0728	0.46	20.76	0.12	86.00	7.72	6.46	4.72	6.64	20.74	0.251	0920	2:51	9:20	25.0	17.5	5	none	1.42	2.55			0511	0920	2:51	9:20	25.0	17.5	5	none	1.42	2.55					1	
CTR-08	Connecticut River	CT	41.34042	-72.36610	9/27/2018	7:55	0755	0.49	18.07	< 0.1	87.40	8.29	10.08	1.57	7.69	17.96	< 0.1	89.30	8.48	12.33	1.69							1312	0710	13:12	7:10	25.0	15.1	80	none	0.09	0.09					2	Salinity value below detection limit.	
CTR-08	Connecticut River	CT	41.34018	-72.36516	10/14/2018	7:49	0749	0.46	16.71	< 0.1	84.40	8.27	5.45	1.66	8.46	16.75	< 0.1	92.80	9.05	6.06	1.56							0941	0316	9:41	3:16	12.1	2.0	80	none	0.77	1.90					4	Salinity value below detection limit. Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.	
CTR-08	Connecticut River	CT	41.34009	-72.36543	10/25/2018	8:54	0854	0.48	9.65	0.22	91.70	10.47	4.23	0.96	8.06	9.76	0.56	93.80	10.59	10.68	1.25							1159	0559	11:59	5:59	11.3	0.2	50	none	0.26	0.32					1		
DAR-01	Darlen River (Harbor)	CT	41.03848	-73.48138	5/12/2018	6:50	0650	0.35	13.22	16.83	116.20	11.03	1.02	5.39	3.87	11.95	16.44	111.00	10.85	2.36	6.04							0929	0334	9:29	3:34	24.0	12.4	10	none	0.01	0.01	0.10	0.10	0.10	0.10	1		
DAR-01	Darlen River (Harbor)	CT	41.03837	-73.48150	5/26/2018	6:44	0644	0.45	15.97	24.95	99.80	8.59	2.27	4.88	3.41	12.87	25.29	95.10	8.83	2.67	3.71							0937	0344	9:37	3:44	30.9	13.5	20	none	0.00	1.54	0.00	0.02	0.95	1			
DAR-01	Darlen River (Harbor)	CT	41.03857	-73.48142	6/9/2018	6:45	0645	0.50	16.74	25.53	91.40	7.45	2.06	5.32	4.60	14.34	25.70	79.70	6.80	3.01	5.57							0759	0210	7:59	2:10	38.5	15.6	60	none	0.00	0.56	0.00	0.00	0.54	1	Season average linear regression results applied to chlorophyll data.		
DAR-01	Darlen River (Harbor)	CT	41.03856	-73.48144	6/23/2018	6:31	0631	0.50	18.35	26.09	100.60	8.15	7.60	6.21	4.70	18.27	26.02	101.30	8.23	11.84	7.71							0829	0257	8:39	2:57	22.5	17.2	70	none	0.43	0.48	0.32	0.43	0.48	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.		
DAR-01	Darlen River (Harbor)	CT	41.03860	-73.48140	7/14/2018	6:37	0637	0.50	20.86	26.86	83.00	6.47	2.68	5.96	2.70	20.21	26.89	74.60	6.58	2.90	5.86							0024	0657	0:24	6:57	30.0	16.5	20	none	0.00	0.00	0.13	0.13	0.13	1			
DAR-01	Darlen River (Harbor)	CT	41.03852	-73.48142	7/28/2018	6:23	0623	0.50	23.69	26.79	73.80	5.44	2.37	17.02	3.00	22.53	27.23	68.70	5.08	4.84	4.57							0004	0639	0:04	6:39	32.6	20.8	30	none	0.14	1.42	0.13	1.42	1.42	1			
DAR-01	Darlen River (Harbor)	CT	41.03849	-73.48146	8/11/2018	6:32	0632	0.50	23.40	27.70	86.10	6.32	1.55	5.48	2.70	22.73	27.37	57.80	4.27	3.71	3.04							1150	0547	11:50	5:47	32.2	18.8	0	none	0.13	1.15	0.83	0.96	1.81	0			
DAR-01	Darlen River (Harbor)	CT	41.03839	-73.48146	8/25/2018	6:29	0629	0.50	23.32	26.93	91.70	7.08		15.48	3.10	23.23	26.97	93.60	7.06		13.77							1131	0533	11:31	5:33	31.1	15.4	5	none	0.00	0.40	0.00	0.22	0.40	0	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.		
DAR-01	Darlen River (Harbor)	CT	41.03843	-73.48144	9/11/2018	6:52	0652	0.50	20.51	26.18	82.80	6.62	10.02	4.83	2.90	20.79	27.10	78.50	6.17	12.61	5.24							1045	0706	0:45	7:06	16.3	11.9	100	light rain	2.33	3.32	1.94	2.37	3.32	3			
DAR-01	Darlen River (Harbor)	CT	41.03852	-73.48137	9/22/2018	6:53	0653	0.50	22.33	26.53	96																																	

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:MM)	Time on Station, Military Time (HH:MM)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (mg/L)	Surface Dissolved Oxygen (%)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (%)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (mg/L)	Mid Dissolved Oxygen (%)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (HH:MM)	Time of Low Tide, Military Time (HH:MM)	Time of High Tide, 24-Hour Time (HH:MM)	Time of Low Tide, 24-Hour Time (HH:MM)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation State	Morning Precipitation Rate	Cumulative Precipitation for previous 2 days (inches)	Cumulative Precipitation for previous 7 days (inches)	Cumulative Precipitation for 2 days (inches)	Cumulative Precipitation for 4 days (inches)	Cumulative Precipitation for 7 days (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
HEM-O-06	Hempstead Harbor	NY	40.88327	-73.65071	9/20/2018	8:06	0806	0.50	22.79	25.94	57.60	4.51	2.06	3.02	8.45	22.58	26.40	60.50	4.32	10.43	1.91							0915	0314	9:15	3:14	22.0	17.0	100	none		1.12	1.18	0.00	1.12	1.12	2		
HEM-O-06	Hempstead Harbor	NY	40.88341	-73.65050	10/2/2018	8:45	0845	0.50	20.94	25.72	96.60	7.57	1.79	7.72	7.02	20.88	25.98	98.50	7.60	3.47	5.47							0506	0123	5:06	11:23	24.0	19.0	95	fog	0.00	2.31	0.00	0.00	1.60	0	Season average linear regression results applied to chlorophyll data.		
HEM-O-06	Hempstead Harbor	NY	40.88349	-73.65002	10/19/2018	8:32	0832	0.50	16.80	24.79	90.20	7.63	1.15	2.84	7.62	17.05	24.99	96.20	8.01	1.97	4.36							0830	0232	8:30	2:32	16.0	12.0	0	none	0.00	1.06	0.00	0.00	0.25	2	Season average linear regression results applied to chlorophyll data.		
HIB-01	Hunter Island Bay	NY	40.87446	-73.79588	5/11/2018	7:32	0732	0.50	14.58	24.64	149.60	13.09	3.17	30.16	4.30	12.98	24.94	138.80	12.51	3.63	40.88							0842	0253	8:42	2:53	18.3	13.3	30	none	0.19	0.19	0.19	0.19	0.19	1	Season average linear regression results applied to chlorophyll data.		
HIB-01	Hunter Island Bay	NY	40.87440	-73.79608	5/25/2018	7:08	0708	0.50	16.08	24.78	80.00	6.78	2.99	8.72	4.10	15.82	24.81	79.30	6.76	6.20	6.05							0914	0317	9:14	3:17	29.4	18.9	30	none	0.21	1.06	0.00	0.42	1.06	1	Season average linear regression results applied to chlorophyll data.		
HIB-01	Hunter Island Bay	NY	40.87466	-73.79581	6/8/2018	7:18	0718	0.50	18.45	24.57	110.10	8.93	3.23	14.57	4.70	17.79	24.75	105.30	8.63	3.69	15.19							0628	1245	6:28	12:45	21.7	16.7	30	none	0.00	0.75	0.00	0.00	0.70	2			
HIB-01	Hunter Island Bay	NY	40.87449	-73.79591	6/22/2018	7:41	0741	0.50	20.80	25.19	85.30	6.57	4.39	20.33	4.60	19.76	25.39	78.50	6.17	5.93	11.19							0753	0157	7:53	1:57	29.4	19.4	85	none	1.09	1.19	1.08	1.14	1.19	2			
HIB-01	Hunter Island Bay	NY	40.87451	-73.79588	7/6/2018	7:31	0731	0.50	24.48	25.62	92.30	6.66	1.62	16.96	3.00	22.87	25.71	79.90	5.93	2.98	11.12							0451	1111	4:51	11:11	32.2	25.6	95	light rain	0.00	0.01	0.09	0.10	0.10	2			
HIB-01	Hunter Island Bay	NY	40.87448	-73.79597	7/20/2018	6:02	0602	0.50	22.15	26.11	73.10	5.48	2.66	12.04	4.60	21.60	26.25	71.80	5.43	3.15	12.31							0622	1251	6:22	12:51	28.3	20.6	10	none	0.00	2.63	0.00	1.60	2.63	2			
HIB-01	Hunter Island Bay	NY	40.87447	-73.79600	8/3/2018	7:17	0717	0.50	25.20	25.91	86.30	6.10	4.55	63.02	3.60	24.40	26.25	71.40	5.14	3.56	24.25							0331	0948	3:31	9:48	31.7	26.1	70	none	0.25	0.31	0.21	0.25	0.25	1			
HIB-01	Hunter Island Bay	NY	40.87443	-73.79608	8/31/2018	7:18	0718	0.50	25.67	26.47	63.60	4.47	4.16	64.05	3.10	25.43	26.52	56.40	6.71	6.15	77.45							0218	0834	2:18	8:34	32.2	24.4	98	none	0.00	0.00	0.00	0.00	0.00	3			
HIB-01	Hunter Island Bay	NY	40.87449	-73.79597	9/14/2018	7:43	0743	0.50	22.34	25.33	56.10	4.21	3.83	26.10	2.90	22.44	25.59	51.30	3.83	5.13	16.06							0317	0942	3:17	9:42	24.4	21.1	90	none	0.26	1.52	0.14	0.29	1.52	2			
HIB-01	Hunter Island Bay	NY	40.87446	-73.79593	10/19/2018	8:28	0828	0.50	15.50	25.36	91.60	7.83	<1	4.18	4.00	14.69	25.33	89.80	7.80	1.80	2.00							0834	0228	8:34	2:28	11.1	6.7	10	none	0.00	0.63	0.00	0.02	1.11	3	Turbidity (values) below detection limit.		
HIB-02	Hunter Island Bay	NY	40.87635	-73.79547	5/11/2018	7:23	0723	0.50	14.93	24.69	152.00	13.24	3.30	32.02	4.20	12.27	24.98	134.80	12.34	4.03	71.00							0842	0253	8:42	2:53	18.3	13.3	30	none	0.19	0.19	0.19	0.19	0.19	1	Season average linear regression results applied to chlorophyll data.		
HIB-02	Hunter Island Bay	NY	40.87634	-73.79546	5/25/2018	7:00	0700	0.50	16.63	24.71	79.70	6.67	3.16	11.56	4.10	15.84	24.86	78.50	6.71	4.88	4.57							0914	0317	9:14	3:17	29.4	18.9	30	none	0.21	1.06	0.00	0.42	1.06	1			
HIB-02	Hunter Island Bay	NY	40.87620	-73.79544	6/8/2018	7:09	0709	0.50	18.44	24.61	109.30	8.87	3.05	15.29	4.00	17.73	24.76	105.00	8.61	2.98	18.24							0628	1245	6:28	12:45	21.7	16.7	30	none	0.00	0.75	0.00	0.00	0.70	2			
HIB-02	Hunter Island Bay	NY	40.87650	-73.79527	6/22/2018	7:25	0725	0.50	20.49	25.27	81.40	6.31	4.63	12.35	3.80	19.69	25.39	79.50	6.26	5.23	10.70							0753	0157	7:53	1:57	29.4	19.4	85	none	1.09	1.19	1.08	1.14	1.19	2			
HIB-02	Hunter Island Bay	NY	40.87636	-73.79542	7/6/2018	7:22	0722	0.50	24.44	25.65	89.20	6.43	1.80	14.76	3.90	22.82	25.69	73.60	5.45	5.26	13.26							0451	1111	4:51	11:11	32.2	25.6	95	light rain	0.00	0.01	0.09	0.10	0.10	2			
HIB-02	Hunter Island Bay	NY	40.87635	-73.79547	7/20/2018	6:13	0613	0.50	22.07	26.14	72.00	5.38	2.44	13.97	4.60	21.48	26.28	71.30	5.40	4.71	9.38							0622	1251	6:22	12:51	28.3	20.6	10	none	0.00	2.63	0.00	1.60	2.63	2			
HIB-02	Hunter Island Bay	NY	40.87641	-73.79540	8/3/2018	7:07	0707	0.50	25.03	25.93	86.00	6.12	4.13	43.81	3.40	24.41	26.23	61.10	4.39	5.95	43.05							0331	0948	3:31	9:48	31.7	26.1	70	none	0.25	0.31	0.21	0.25	0.25	1			
HIB-02	Hunter Island Bay	NY	40.87640	-73.79553	8/31/2018	7:29	0729	0.50	25.60	26.49	66.10	4.65	3.76	44.74	3.70	25.49	26.53	61.60	4.34	6.17	82.59							0218	0834	2:18	8:34	32.2	24.4	98	none	0.00	0.00	0.00	0.00	0.00	3			
HIB-02	Hunter Island Bay	NY	40.87628	-73.79550	9/14/2018	7:33	0733	0.50	22.34	25.43	61.90	4.64	3.19	7.03	3.10	22.44	25.52	57.60	4.31	4.38	14.75							0317	0942	3:17	9:42	24.4	21.1	90	none	0.26	1.52	0.14	0.29	1.52	2			
HIB-02	Hunter Island Bay	NY	40.87646	-73.79546	10/19/2018	8:35	0835	0.50	15.73	25.36	90.30	7.67	<1	4.48	4.80	14.92	25.34	86.60	7.48	2.20	2.74							0834	0228	8:34	2:28	11.1	6.7	10	none	0.00	0.63	0.00	0.02	1.11	3	Turbidity (values) below detection limit.		
HIB-03	Hunter Island Bay	NY	40.88159	-73.79217	5/11/2018	7:12	0712	0.50	12.56	24.67	143.90	13.15	2.44	32.84	3.40	11.51	25.11	126.90	11.79	2.48	67.47							0842	0253	8:42	2:53	18.3	13.3	30	none	0.19	0.19	0.19	0.19	0.19	1	Season average linear regression results applied to chlorophyll data.		
HIB-03	Hunter Island Bay	NY	40.88186	-73.79214	5/25/2018	7:20	0720	0.50	15.43	24.88	79.00	6.78	2.77	5.12	5.50	14.93	24.92	78.50	6.80	3.41	5.20							0914	0317	9:14	3:17	29.4	18.9	30	none	0.21	1.06	0.00	0.42	1.06	1			
HIB-03	Hunter Island Bay	NY	40.88176	-73.79221	6/8/2018	7:29	0729	0.50	17.86	24.69	113.70	9.35	2.58	15.33	5.40	17.40	24.81	99.90	8.24	2.48	18.34							0628	1245	6:28	12:45	21.7	16.7	30	none	0.00	0.75	0.00	0.00	0.70	2			
HIB-03	Hunter Island Bay	NY	40.88178	-73.79180	6/22/2018	7:15	0715	0.50	19.65	25.41	84.50	6.65	3.95	11.98	3.80	19.40	25.44	81.20	6.42	5.65	9.81							0753	0157	7:53	1:57	29.4	19.4	85	none	1.09	1.19	1.08	1.14	1.19	2			
HIB-03	Hunter Island Bay	NY	40.88174	-73.79218	7/6/2018	7:30	0730	0.50	23.82	25.64	88.00	6.42	1.59	13.85	4.70	22.12	25.70	78.70	5.92	2.82	10.56							0451	1111	4:51	11:11	32.2	25.6	95	light rain	0.00	0.01	0.09	0.10	0.10	2			
HIB-03	Hunter Island Bay	NY	40.88171	-73.79218																																								

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:PM)	Time on Station, Midday Time (M:PM)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Midday Time (M:PM)	Time of Low Tide, Midday Time (M:PM)	Time of High Tide, 24-Hour Time (M:PM)	Time of Low Tide, 24-Hour Time (M:PM)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation State	Morning Precipitation Rate (inches)	Cumulative Precipitation for previous 2 days (not sample dates) (inches)	Cumulative Precipitation for previous 7 days (not sample dates) (inches)	Cumulative Precipitation for 4 days (preceding 24 sample dates) (inches)	Cumulative Precipitation for 3 days (preceding 24 sample dates) (inches)	Cumulative Precipitation for 2 days (preceding 24 sample dates) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
HNC-HUB-01	Huntington Bay	NY	40.9052	-73.4298	8/7/2018	6:50	0650	0.50	25.00	26.87	80.50	5.76	1.56	12.15	7.13	23.31	27.15	75.00	5.49									0807	0210	8:07	2:10	26.0	21.0	5	none	0.00		0.81	1.53	1.54	1			
HNC-HUB-01	Huntington Bay	NY	40.9093	-73.4298	8/21/2018	6:56	0656	0.50	23.40	26.06	64.50	4.73	1.93	8.22	7.77	22.79	27.40	56.20	4.14									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0			
HNC-HUB-01	Huntington Bay	NY	40.9093	-73.4308	9/14/2018	7:39	0739	0.50	22.01	26.57	79.40	6.02	2.26	6.20	7.81	21.98	26.79	77.50	5.87									0913	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2			
HNC-HUB-01	Huntington Bay	NY	40.90949	-73.42978	9/26/2018	7:50	0750	0.50	20.85	26.57	83.40	6.40	2.27	6.42	6.41	20.81	27.04	81.80	6.26									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2			
HNC-HUB-01	Huntington Bay	NY	40.90946	-73.42981	10/13/2018	8:52	0852	0.50	19.41	25.82	87.20	6.87	2.41	3.06	6.09	19.52	26.15	85.80	6.73									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.		
HNC-HUB-01	Huntington Bay	NY	40.90941	-73.42990	10/22/2018	8:33	0833	0.50	14.37	25.78	94.20	8.31	1.19	2.57	7.87	14.26	25.81	91.10	8.05									1032	0432	10:32	4:32	9.0	1.0	40	none	0.09		0.00	0.09	0.12	2			
HNC-HUB-02	Huntington Bay	NY	40.91041	-73.40749	5/10/2018	6:47	0647	0.50	12.67	25.67	112.10	11.63	1.14	3.10	6.64	9.70	26.00	110.70	12.23									0805	0210	8:05	2:10	20.0	8.0	100	missing rain	0.00		0.11	0.11	0.11	1			
HNC-HUB-02	Huntington Bay	NY	40.91037	-73.40756	5/22/2018	6:44	0644	0.50	14.67	25.36	99.80	10.36		2.76	6.70	13.30	25.49	97.00	10.34									0547	1218	5:47	12:18	23.0	13.0	20	none	0.01		0.11	0.96	1.87	0			
HNC-HUB-02	Huntington Bay	NY	40.91042	-73.40733	6/12/2018	6:17	0617	0.50	16.79	25.67	96.00	8.07	2.60	11.21	5.56	16.77	25.64	96.40	8.10									1051	0453	10:51	4:53	20.0	11.0	5	none	0.00		0.00	0.00	0.00	1			
HNC-HUB-02	Huntington Bay	NY	40.91037	-73.40744	6/26/2018	6:45	0645	0.50	18.46	26.03	91.40	7.41	4.28	13.96	5.79	18.47	26.07	90.30	7.33									1118	0512	11:18	5:12	17.0	7.0	10	none	0.07		0.00	0.07	0.69	1			
HNC-HUB-02	Huntington Bay	NY	40.91046	-73.40718	7/10/2018	6:19	0619	0.50	21.19	26.39	88.10	6.75	2.12	8.13	6.41	18.68	26.81	75.10	5.96									0933	0336	9:33	3:36	28.0	19.0	0	none	0.00		0.00	0.00	0.04	1			
HNC-HUB-02	Huntington Bay	NY	40.91045	-73.40736	7/24/2018	6:37	0637	0.50	21.24	27.16	75.80	5.78	2.50	4.94	6.22	20.79	27.26	70.20	5.41									1009	0400	10:09	4:00	28.0	23.0	95	none	0.83		0.01	0.94	0.94	3			
HNC-HUB-02	Huntington Bay	NY	40.91052	-73.40730	8/7/2018	7:01	0701	0.50	24.58	26.91	91.30	6.49	1.86	10.14	7.21	22.48	27.38	72.00	5.26									0807	0210	8:07	2:10	26.0	21.0	5	none	0.00		0.81	1.53	1.54	1			
HNC-HUB-02	Huntington Bay	NY	40.91042	-73.40745	8/21/2018	7:09	0709	0.50	23.22	27.07	76.40	5.60	1.46	11.21	7.38	22.86	27.32	67.00	4.94									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0			
HNC-HUB-02	Huntington Bay	NY	40.91035	-73.40768	9/14/2018	8:00	0800	0.50	22.09	26.95	83.70	6.27	1.92	5.48	6.08	22.12	27.02	78.20	5.90									0913	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2			
HNC-HUB-02	Huntington Bay	NY	40.91043	-73.40739	9/26/2018	8:02	0802	0.50	20.74	26.98	87.70	6.72	2.02	4.49	5.76	20.74	27.04	85.80	6.59									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2			
HNC-HUB-02	Huntington Bay	NY	40.91055	-73.40749	10/13/2018	9:04	0904	0.50	19.88	26.46	92.30	7.16	2.64	2.90	5.72	19.88	26.49	90.30	7.01									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.		
HNC-HUB-02	Huntington Bay	NY	40.91044	-73.40731	10/22/2018	8:45	0845	0.50	14.22	25.80	95.40	8.44	1.03	4.31	7.39	14.25	25.81	91.90	8.12									1032	0432	10:32	4:32	9.0	1.0	40	none	0.09		0.00	0.09	0.12	2			
HNC-HUB-03	Huntington Bay	NY	40.91770	-73.41824	5/10/2018	6:59	0659	0.50	12.55	25.72	118.60	12.31	1.02	2.52	7.35	9.52	26.05	118.70	13.17									0805	0210	8:05	2:10	20.0	8.0	100	missing rain	0.00		0.11	0.11	0.11	1			
HNC-HUB-03	Huntington Bay	NY	40.91787	-73.41816	5/22/2018	6:56	0656	0.50	14.23	25.43	102.20	10.70		2.12	7.38	12.64	25.55	99.60	10.77									0547	1218	5:47	12:18	23.0	13.0	20	none	0.01		0.11	0.96	1.87	0			
HNC-HUB-03	Huntington Bay	NY	40.91784	-73.41802	6/12/2018	6:27	0627	0.50	17.84	25.42	98.20	8.13	1.74	14.71	6.52	15.10	25.87	92.70	8.00									1051	0453	10:51	4:53	20.0	11.0	5	none	0.00		0.00	0.00	0.00	1			
HNC-HUB-03	Huntington Bay	NY	40.91765	-73.41810	6/26/2018	6:53	0653	0.50	18.85	25.96	97.50	7.88	2.53	14.78	6.62	18.52	26.06	94.40	7.64									1118	0512	11:18	5:12	17.0	7.0	10	none	0.07		0.00	0.07	0.69	1			
HNC-HUB-03	Huntington Bay	NY	40.91761	-73.41802	7/10/2018	6:28	0628	0.50	20.92	26.43	84.80	6.51	1.91	7.82	7.30	17.94	26.88	75.50	6.08									0933	0336	9:33	3:36	28.0	19.0	0	none	0.00		0.00	0.00	0.04	1			
HNC-HUB-03	Huntington Bay	NY	40.91777	-73.41812	7/24/2018	6:45	0645	0.50	21.10	27.20	73.60	5.65	2.38	7.05	7.18	20.20	27.36	69.90	5.43									1009	0400	10:09	4:00	28.0	23.0	95	none	0.83		0.01	0.94	0.94	3			
HNC-HUB-03	Huntington Bay	NY	40.91782	-73.41797	8/7/2018	7:09	0709	0.50	25.03	26.90	84.10	5.98	1.50	10.36	8.47	22.51	27.30	75.90	5.63									0807	0210	8:07	2:10	26.0	21.0	5	none	0.00		0.81	1.53	1.54	1			
HNC-HUB-03	Huntington Bay	NY	40.91780	-73.41819	8/21/2018	7:18	0718	0.50	22.88	27.12	70.80	5.29	1.18	7.97	8.28	22.53	27.42	60.30	4.58									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0			
HNC-HUB-03	Huntington Bay	NY	40.91788	-73.41826	9/14/2018	8:09	0809	0.50	22.12	27.02	80.10	6.01	2.74	3.85	6.76	22.12	27.01	76.80	5.79									0913	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2			
HNC-HUB-03	Huntington Bay	NY	40.91786	-73.41805	9/26/2018	8:10	0810	0.50	20.82	26.92	86.90	6.66	1.79	4.52	6.83	20.76	27.05	85.60	6.56									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2			
HNC-HUB-03	Huntington Bay	NY	40.91782	-73.41793	10/13/2018	8:11	0911	0.50	19.83	26.42	89.80	7.00	2.20	2.37	6.84	18.40	26.81	88.80	6.91									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.		
HNC-HUB-03	Huntington Bay	NY	40.91787	-73.41798	10/22/2018																																							

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (hh:mm)	Time on Station, Military Time (hhmm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (hhmm)	Time of Low Tide, Military Time (hhmm)	Time of High Tide, 24 Hour Time (hh:mm)	Time of Low Tide, 24 Hour Time (hh:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Cumulative Precipitation for previous 2 days (inches)	Cumulative Precipitation for previous 7 days (inches)	Cumulative Precipitation for 4 days (inches)	Cumulative Precipitation for 7 days (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
HNC-HUH-06	Hurlington Harbor	NY	40.90508	-73.43448	8/21/2018	6:45	0645	0.50	23.49	26.96	73.10	5.35	2.30	10.31	5.94	23.27	27.19	64.00	4.68									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0	
HNC-HUH-06	Hurlington Harbor	NY	40.90511	-73.43457	9/14/2018	7:29	0729	0.50	21.99	26.07	78.70	5.97	1.97	8.54	5.00	22.08	26.54	76.70	5.81									0913	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2	
HNC-HUH-06	Hurlington Harbor	NY	40.90511	-73.43449	9/26/2018	7:42	0742	0.50	20.86	26.56	84.30	6.48	1.09	6.12	4.25	20.85	26.78	81.00	6.22									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2	
HNC-HUH-06	Hurlington Harbor	NY	40.90508	-73.43441	10/13/2018	8:44	0844	0.50	19.03	25.09	94.60	7.40	2.29	4.27	4.40	19.68	26.04	90.30	7.07									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.
HNC-HUH-06	Hurlington Harbor	NY	40.90490	-73.43450	10/22/2018	8:27	0827	0.50	13.62	25.64	90.60	8.12	< 1	4.48	6.00	13.63	25.65	90.50	8.11									1032	0432	10:32	4:32	9.0	1.0	40	none	0.09		0.00	0.09	0.12	2	Turbidity (values) below detection limit.
HNC-LLO-01	Lloyd Harbor	NY	40.91295	-73.46744	5/10/2018	7:41	0741	0.50	17.57	25.10	103.80	9.75	8.80	5.58	3.27	14.83	25.56	101.80	10.12									0805	0210	8:05	2:10	20.0	8.0	100	missing rain	0.00		0.11	0.11	0.11	1	
HNC-LLO-01	Lloyd Harbor	NY	40.91294	-73.46729	5/22/2018	7:44	0744	0.50	15.85	24.95	100.80	10.51		5.11	2.93	15.07	25.26	100.70	10.63									0547	1218	5:47	12:18	23.0	13.0	20	none	0.01		0.11	0.96	1.87	0	
HNC-LLO-01	Lloyd Harbor	NY	40.91288	-73.46744	6/12/2018	7:08	0708	0.50	19.79	24.69	91.30	7.27	7.36	18.32	2.39	19.87	24.78	89.00	7.08									1051	0453	10:51	4:53	20.0	11.0	5	none	0.00		0.00	0.00	0.00	1	
HNC-LLO-01	Lloyd Harbor	NY	40.91288	-73.46740	6/26/2018	7:33	0733	0.50	20.32	25.20	88.80	7.00	7.09	14.57	2.49	20.33	25.42	88.00	6.91									1118	0512	11:18	5:12	17.0	7.0	10	none	0.07		0.00	0.07	0.69	1	
HNC-LLO-01	Lloyd Harbor	NY	40.91296	-73.46743	7/10/2018	7:04	0704	0.50	22.13	26.05	89.10	6.70	6.18	9.41	3.35	22.12	26.11	87.30	6.56									0933	0336	9:33	3:36	28.0	19.0	0	none	0.00		0.00	0.00	0.04	1	
HNC-LLO-01	Lloyd Harbor	NY	40.91292	-73.46749	7/24/2018	7:15	0715	0.50	24.70	25.64	71.40	5.18	4.45	20.43	3.04	24.67	26.04	69.20	5.01									1009	0400	10:09	4:00	28.0	23.0	95	none	0.83		0.01	0.94	0.94	3	
HNC-LLO-01	Lloyd Harbor	NY	40.91288	-73.46730	8/7/2018	7:44	0744	0.50	26.09	26.54	95.70	6.68	3.10	14.85	3.89	25.93	26.66	93.70	6.57									0807	0210	8:07	2:10	26.0	21.0	5	none	0.00		0.81	1.53	1.54	1	
HNC-LLO-01	Lloyd Harbor	NY	40.91298	-73.46738	8/21/2018	7:58	0758	0.50	23.36	26.25	79.30	5.82	5.41	10.88	3.98	23.47	26.41	75.50	5.56									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0	
HNC-LLO-01	Lloyd Harbor	NY	40.91297	-73.46747	9/14/2018	8:45	0845	0.50	21.72	24.77	66.50	5.12	9.18	5.87	2.14	21.70	25.16	67.80	5.21									0933	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2	
HNC-LLO-01	Lloyd Harbor	NY	40.91294	-73.46737	9/26/2018	8:44	0844	0.50	19.79	25.77	83.50	6.57	4.66	11.64	2.51	19.50	26.05	78.60	6.19									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2	
HNC-LLO-01	Lloyd Harbor	NY	40.91301	-73.46735	10/13/2018	8:51	0951	0.50	18.03	24.74	85.70	6.91	6.08	7.68	2.24	18.54	25.08	80.00	6.42									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.
HNC-LLO-01	Lloyd Harbor	NY	40.91294	-73.46733	10/22/2018	9:27	0927	0.50	12.54	25.31	94.90	8.71	1.66	6.97	3.99	12.78	25.47	94.30	8.59									1032	0432	10:32	4:32	9.0	1.0	40	none	0.09		0.00	0.09	0.12	2	
HNC-LLO-02	Lloyd Harbor	NY	40.91365	-73.45006	5/10/2018	7:29	0729	0.50	15.59	25.48	109.80	10.73	5.92	3.42	4.38	12.65	25.74	106.70	11.08									0805	0210	8:05	2:10	20.0	8.0	100	missing rain	0.00		0.11	0.11	0.11	1	
HNC-LLO-02	Lloyd Harbor	NY	40.91367	-73.44996	5/22/2018	7:33	0733	0.50	15.03	25.33	101.00	10.68		3.17	3.95	14.12	25.44	97.20	10.46									0547	1218	5:47	12:18	23.0	13.0	20	none	0.01		0.11	0.96	1.87	0	
HNC-LLO-02	Lloyd Harbor	NY	40.91366	-73.45001	6/12/2018	6:56	0656	0.50	19.34	25.16	103.00	8.27	3.53	12.49	3.24	18.70	25.36	101.90	8.27									1051	0453	10:51	4:53	20.0	11.0	5	none	0.00		0.00	0.00	0.00	1	
HNC-LLO-02	Lloyd Harbor	NY	40.91352	-73.45011	6/26/2018	7:19	0719	0.50	19.47	25.83	101.90	8.12	4.04	12.51	3.91	19.43	25.87	100.80	8.04									1118	0512	11:18	5:12	17.0	7.0	10	none	0.07		0.00	0.07	0.69	1	
HNC-LLO-02	Lloyd Harbor	NY	40.91365	-73.45007	7/10/2018	6:54	0654	0.50	21.76	26.25	92.60	7.01	6.06	9.30	4.45	21.57	26.32	89.30	6.76									0933	0336	9:33	3:36	28.0	19.0	0	none	0.00		0.00	0.00	0.04	1	
HNC-LLO-02	Lloyd Harbor	NY	40.91359	-73.45016	7/24/2018	7:07	0707	0.50	23.79	26.57	84.40	6.21	3.05	17.96	4.21	22.28	26.98	80.10	6.02									1009	0400	10:09	4:00	28.0	23.0	95	none	0.83		0.01	0.94	0.94	3	
HNC-LLO-02	Lloyd Harbor	NY	40.91366	-73.45000	8/7/2018	7:34	0734	0.50	25.98	26.67	87.40	6.18	2.09	16.75	4.92	25.04	26.83	86.40	6.05									0807	0210	8:07	2:10	26.0	21.0	5	none	0.00		0.81	1.53	1.54	1	
HNC-LLO-02	Lloyd Harbor	NY	40.91356	-73.45017	8/21/2018	7:46	0746	0.50	23.61	26.75	94.20	6.89	4.14	22.20	5.41	23.69	26.81	84.90	6.14									0844	0235	8:44	2:35	23.0	17.0	30	none	0.00		0.00	0.71	0.72	0	
HNC-LLO-02	Lloyd Harbor	NY	40.91353	-73.45016	9/14/2018	8:31	0831	0.50	21.79	25.94	81.60	6.23	3.63	8.45	3.58	21.77	26.06	78.30	5.97									0913	0929	3:13	9:29	24.0	19.0	95	missing rain	0.06		0.04	0.23	1.47	2	
HNC-LLO-02	Lloyd Harbor	NY	40.91368	-73.44995	9/26/2018	8:35	0835	0.50	20.00	26.62	89.50	6.99	2.78	9.96	3.36	19.95	26.76	87.40	6.82									1250	0652	12:50	6:52	26.0	17.0	100	missing rain	2.37		2.44	2.44	2.44	2	
HNC-LLO-02	Lloyd Harbor	NY	40.91362	-73.44994	10/13/2018	9:43	0943	0.50	19.03	25.63	93.80	7.45	3.55	6.64	3.32	19.50	26.08	89.80	7.05									0246	0858	2:46	8:58	17.0	9.0	100	light rain	1.86		1.13	1.93	1.93	1	Multiplicative correction to turbidity values. Calculation based on calibration information recorded by group.
HNC-LLO-02	Lloyd Harbor	NY	40.91357	-73.45002	10/22/2018	9:16	0916	0.50	13.78	25.70	95.00	8.45	1.04	5.31	5.28	13.80	25.12	91.90	8.20									1032	0432	10:32	4:32	9.0	1.0	40	none	0.09		0.00	0.09	0.12	2	
HNC-LLO-03	Lloyd Harbor	NY	40.91096	-73.44155	5/10/2018	7:22	0722	0.50	15.90	25.45	111.70	10.85</																														

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:SS)	Time on Station, Military Time (hhmm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Time of High Tide, Military Time (hhmm)	Time of Low Tide, Military Time (hhmm)	Time of High Tide, 24-Hour Time (HH:MM)	Time of Low Tide, 24-Hour Time (HH:MM)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Morning Precipitation (mm)	Cumulative Precipitation for previous 2 Days (includes sample date) (inches)	Cumulative Precipitation for previous 7 Days (includes sample date) (inches)	Cumulative Precipitation for 4 Days (includes sample date) (inches)	Cumulative Precipitation for 3 Days (includes sample date) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes	
HNC-NPB-03	Northport Bay	NY	40.92907	-73.36621	9/15/2018	8:03	0803	0.50	21.85	26.68	86.30	6.54	2.93	9.57	1.72	21.84	26.67	85.20	6.47			0405	1022	4:05	10:22	24.0	17.0	20	none	0.04		0.00	0.06	1.43	1		
HNC-NPB-03	Northport Bay	NY	40.92906	-73.36615	9/22/2018	8:19	0819															0110	0724	1:10	7:24	26.0	16.0	90	none	2.44		0.07	2.44	2.44	3		
HNC-NPB-03	Northport Bay	NY	40.92903	-73.36612	10/14/2018	8:43	0843	0.50	17.72	25.85	100.50	8.23	1.58	3.34	1.23	17.72	25.85	91.50	7.53			0332	0946	3:32	9:46	13.0	6.0	50	none	1.13		0.07	1.93	1.93	1		
HNC-NPB-03	Northport Bay	NY	40.92905	-73.36617	10/23/2018	9:08	0908	0.50	11.64	24.82	94.70	8.84	<1	2.39	2.75	12.42	25.51	94.60	8.67			1108	0509	11:08	5:09	10.0	1.0	80	none	0.00		0.00	0.09	0.09	1	Turbidity (values) below detection limit.	
HNC-NPB-04	Northport Bay	NY	40.91668	-73.37544	5/11/2018	6:26	0626	0.50	14.41	25.55	104.30	10.37	1.45	4.70	6.72	11.98	25.84	99.90	10.51			0902	0305	9:02	3:05	15.0	13.0	10	none	0.11		0.11	0.11	0.11	1	Season average linear regression results applied to chlorophyll data.	
HNC-NPB-04	Northport Bay	NY	40.91678	-73.37560	5/23/2018	6:23	0623	0.50	14.95	25.03	94.40	8.02		7.41	6.09	14.22	25.28	92.90	9.69			0702	0059	7:02	0:59	19.0	13.0	100	missing rain	0.11		0.15	0.16	1.55	1		
HNC-NPB-04	Northport Bay	NY	40.91673	-73.37560	6/13/2018	6:05	0605	0.50	18.32	25.52	96.60	7.84	3.64	16.82	4.03	17.73	25.59	92.10	7.52			1140	0541	11:40	5:41	21.0	10.0	50	none	0.00		0.02	0.02	0.02	4		
HNC-NPB-04	Northport Bay	NY	40.91676	-73.37550	6/27/2018	6:02	0602	0.50	19.49	25.84	101.70	8.08	2.02	9.20	24.24	5.41	19.31	25.97	92.30	7.28			1201	0556	12:01	5:56	23.0	15.0	40	none	0.00		0.20	0.27	0.89	1	
HNC-NPB-04	Northport Bay	NY	40.91662	-73.37552	7/11/2018	6:15	0615	0.50	22.76	26.18	91.60	6.80	2.39	18.40	5.03	21.66	26.49	90.80	6.81			1029	0429	10:29	4:29	31.0	19.0	40	none	0.00		0.00	0.00	0.04	2		
HNC-NPB-04	Northport Bay	NY	40.91668	-73.37564	7/27/2018	6:56	0656	0.50	23.14	26.61	100.10	7.36	2.47	37.47	3.85	22.74	26.75	100.60	7.45			1213	0611	12:13	6:11	28.0	22.0	10	none	1.49		0.97	1.67	2.61	2		
HNC-NPB-04	Northport Bay	NY	40.91670	-73.37550	8/8/2018	7:12	0712	0.50	26.35	26.69	85.80	6.01	2.33	22.08	8.33	25.24	26.88	85.70	6.00			0913	0313	9:13	3:13	29.0	22.0	75	none	0.81		0.81	0.81	1.54	1		
HNC-NPB-04	Northport Bay	NY	40.91673	-73.37550	8/25/2018	7:01	0701	0.50	23.60	26.94	91.60	6.74	2.22	14.53	5.67	23.63	26.94	88.90	6.54			1146	0544	11:46	5:44	27.0	17.0	40	none	0.00		0.00	0.25	0.25	1		
HNC-NPB-04	Northport Bay	NY	40.91670	-73.37558	9/15/2018	7:42	0742	0.50	22.12	26.80	83.30	6.27	<1	6.67	5.76	22.21	26.90	80.90	6.09			0405	1022	4:05	10:22	24.0	17.0	20	none	0.04		0.00	0.06	1.43	1	Turbidity (values) below detection limit.	
HNC-NPB-04	Northport Bay	NY	40.91656	-73.37559	9/27/2018	8:02	0802	0.50	21.01	26.53	93.30	7.17	2.11	6.02	3.74	21.02	26.51	92.00	7.07			0110	0724	1:10	7:24	26.0	16.0	90	none	2.44		0.07	2.44	2.44	3		
HNC-NPB-04	Northport Bay	NY	40.91665	-73.37540	10/14/2018	8:26	0826	0.50	18.26	25.89	90.30	7.35	<1	3.53	6.46	18.17	25.88	89.60	7.31			0332	0946	3:32	9:46	13.0	6.0	50	none	1.13		0.07	1.93	1.93	1	Turbidity (values) below detection limit.	
HNC-NPB-04	Northport Bay	NY	40.91669	-73.37551	10/23/2018	8:51	0851	0.50	13.06	25.70	97.30	8.75	<1	5.64	8.25	13.08	25.72	94.90	8.55			1108	0509	11:08	5:09	10.0	1.0	80	none	0.00		0.00	0.09	0.09	1	Turbidity (values) below detection limit.	
HNC-NPB-05	Northport Bay	NY	40.93068	-73.38109	5/11/2018	6:55	0655	0.50	14.31	25.63	97.70	9.73	4.27	3.97	2.85	13.77	25.68	95.10	9.62			0902	0305	9:02	3:05	15.0	13.0	10	none	0.11		0.11	0.11	0.11	1	Season average linear regression results applied to chlorophyll data.	
HNC-NPB-05	Northport Bay	NY	40.93058	-73.38123	5/23/2018	6:51	0651	0.50	15.65	25.13	94.70	9.64		6.32	3.61	14.53	25.27	91.20	9.48			0702	0059	7:02	0:59	19.0	13.0	100	missing rain	0.11		0.15	0.16	1.55	1		
HNC-NPB-05	Northport Bay	NY	40.93061	-73.38113	6/13/2018	6:35	0635	0.50	19.27	25.70	87.70	6.97	7.29	10.38	1.72	19.24	25.73	87.50	6.95			1140	0541	11:40	5:41	21.0	10.0	50	none	0.00		0.02	0.02	0.02	4		
HNC-NPB-05	Northport Bay	NY	40.93055	-73.38114	6/27/2018	6:37	0637	0.50	20.57	26.01	101.80	7.91	5.88	13.08	2.16	20.41	25.96	101.70	7.94			1201	0556	12:01	5:56	23.0	15.0	40	none	0.00		0.20	0.27	0.89	1		
HNC-NPB-05	Northport Bay	NY	40.93065	-73.38110	7/11/2018	6:40	0640	0.50	23.73	26.19	100.70	7.33	2.45	11.39	2.43	23.73	26.34	101.70	7.35			1029	0429	10:29	4:29	31.0	19.0	40	none	0.00		0.00	0.00	0.04	2		
HNC-NPB-05	Northport Bay	NY	40.93056	-73.38116	7/27/2018	7:22	0722	0.50	23.86	26.61	91.40	6.63	7.63	22.56	2.31	23.82	26.65	87.70	6.35			1213	0611	12:13	6:11	28.0	22.0	10	none	1.49		0.97	1.67	2.61	2		
HNC-NPB-05	Northport Bay	NY	40.93059	-73.38120	8/8/2018	7:53	0753	0.50	26.51	26.65	89.30	6.18	4.06	14.63	4.13	25.98	26.74	84.50	5.89			0913	0313	9:13	3:13	29.0	22.0	75	none	0.81		0.81	0.81	1.54	1		
HNC-NPB-05	Northport Bay	NY	40.93060	-73.38113	8/25/2018	7:33	0733	0.50	24.14	27.03	90.60	6.58	6.48	15.51	2.29	24.13	26.99	88.90	6.49			1146	0544	11:46	5:44	27.0	17.0	40	none	0.00		0.00	0.25	0.25	1		
HNC-NPB-05	Northport Bay	NY	40.93054	-73.38113	9/15/2018	8:14	0814	0.50	22.17	26.70	87.60	6.59	2.71	6.89	2.96	22.14	26.71	82.90	6.26			0405	1022	4:05	10:22	24.0	17.0	20	none	0.04		0.00	0.06	1.43	1		
HNC-NPB-05	Northport Bay	NY	40.93052	-73.38113	9/27/2018	8:26	0826	0.50	20.87	26.49	92.40	7.12	5.35	4.92	2.28	20.83	26.51	87.30	6.72			0110	0724	1:10	7:24	26.0	16.0	90	none	2.44		0.07	2.44	2.44	3		
HNC-NPB-05	Northport Bay	NY	40.93059	-73.38106	10/14/2018	8:51	0851	0.50	17.24	25.78	91.70	7.64	2.17	2.85	2.31	16.51	25.73	87.30	7.34			0332	0946	3:32	9:46	13.0	6.0	50	none	1.13		0.07	1.93	1.93	1		
HNC-NPB-05	Northport Bay	NY	40.93064	-73.38115	10/23/2018	9:17	0917	0.50	13.38	25.78	96.30	8.62	<1	2.57	3.79	13.34	25.77	91.40	8.36			1108	0509	11:08	5:09	10.0	1.0	80	none	0.00		0.00	0.09	0.09	1	Turbidity (values) below detection limit.	
HNC-NPB-06	Northport Bay	NY	40.91459	-73.39149	5/11/2018	7:11	0711	0.50	13.40	25.79	106.70	10.84	1.51	3.71	9.94	12.33	25.80	101.50	11.30			5.22	12.48	25.81	106.20	11.11										Season average linear regression results applied to chlorophyll data.	
HNC-NPB-06	Northport Bay	NY	40.91463	-73.39162	5/23/2018	7:07	0707	0.50	14.62	25.22	95.40	9.89		3.79	8.85	14.06	25.35	93.80	9.84			5.18	14.08	25.32	94.20	9.87											
HNC-NPB-06	Northport Bay	NY	40.91459	-73.39176	6/13/2018	6:54	0654	0.50	18.99	25.55	103.60	8.30	3.05	14.84	8.86	17.68	25.72	99.60	8.13			1140	0541	11:40	5:41	21.0	10.0	50	none	0.00		0.02	0.02	0.02	4		
HNC-NPB-06	Northport Bay	NY	40.91459	-73.39189	6/27/2018	6:55	0655	0.50	19.67	25.89	103.50	8.19	1.78	11.66	9.26	19.09	26.02	98.30	7.83			1201	0556	12:01	5:56	23.0	15.0	40	none	0.00		0.20	0.27	0.89	1		
HNC-NPB-06	Northport Bay	NY	40.914																																		

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Midday Time (hh:mm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Salinity (ppt)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Midday Time (hh:mm)	Time of Low Tide, Midday Time (hh:mm)	Time of High Tide, 24 Hour Time (M:mm)	Time of Low Tide, 24 Hour Time (M:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Morning Precipitation (mm)	Cumulative Precipitation for previous 2 Days (inches)	Cumulative Precipitation for previous 7 Days (inches)	Cumulative Precipitation for previous 14 Days (inches)	Cumulative Precipitation for previous 21 Days (inches)	Cumulative Precipitation for previous 28 Days (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
HNC-NPH-03	Northport Harbor	NY	40.90559	-73.35976	9/27/2018	7:49	0749	0.50	20.59	26.13	86.80	6.61	9.01	5.49	2.45	20.60	26.15	81.30	6.29									0110	0724	1:10	7:24	26.0	16.0	90	none	2.44	0.07	2.44	2.44	3				
HNC-NPH-03	Northport Harbor	NY	40.90561	-73.35969	10/14/2018	8:12	0812	0.50	17.15	24.69	87.20	7.23	2.04	3.77	2.92	17.98	25.51	81.70	6.72									0332	0946	3:32	9:46	13.0	6.0	50	none	1.13	0.07	1.93	1.93	1				
HNC-NPH-03	Northport Harbor	NY	40.90557	-73.35982	10/23/2018	8:38	0838	0.50	12.16	25.23	96.20	8.85	+1	5.03	3.87	12.59	25.53	96.30	8.79									1108	0509	11:08	5:09	10.0	1.0	80	none	0.00	0.00	0.00	0.00	1	Turbidity (values) below detection limit.			
HOL-01	Holly Pond	CT	41.05577	-73.50310	5/7/2018	6:50	0650															0.25	12.00	24.95	98.40	8.83	3.07	7.69	0501	1145	5:01	11:45	17.8	11.1	55	none	0.01	0.34	0.01	0.02	0.33	0		
HOL-01	Holly Pond	CT	41.05572	-73.50287	5/22/2018	6:28	0628															0.50	16.61	23.93	99.50	8.14	5.16	12.15	0552	1225	5:52	12:25	18.9	12.2	80	none	0.05	1.91	0.25	0.83	1.75	1		
HOL-01	Holly Pond	CT	41.05575	-73.50275	6/5/2018	6:23	0623															0.44	17.99	24.57	97.50	7.78	4.60	12.74	0424	1058	4:24	10:58	23.5	10.1	50	none	0.31	0.42	0.42	0.45	0.55	1	Season average linear regression results applied to chlorophyll data.	
HOL-01	Holly Pond	CT	41.05578	-73.50298	6/15/2018	6:18	0618															0.22	18.23	24.84	71.70	5.61		22.05	0044	0719	0:44	7:19	26.7	17.8	10	none	0.04	0.04	0.00	0.04	0.04	1	Season average linear regression results applied to chlorophyll data.	
HOL-01	Holly Pond	CT	41.05624	-73.50337	7/6/2018	6:15	0615															0.36	27.00	25.27	79.10	5.49	6.15	17.16	0530	1150	5:30	11:50	30.6	20.6	90	light rain	0.00	0.02	0.15	0.17	0.17	2	Season average linear regression results applied to chlorophyll data. Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.	
HOL-01	Holly Pond	CT	41.05530	-73.50287	7/19/2018	6:10	0610															0.50	21.60	26.62	80.40	6.05	4.48	25.08	0513	1134	5:13	11:34	27.8	18.9	0	none	0.74	1.24	0.00	0.74	1.24	1	Season average linear regression results applied to chlorophyll data.	
HOL-01	Holly Pond	CT	41.05543	-73.50310	8/1/2018	6:12	0612															0.15	25.82	25.94	75.10	5.27	5.14	16.75	0238	0901	2:38	9:01	28.9	21.1	100	light rain	0.00	0.92	0.17	0.77	0.65	1		
HOL-01	Holly Pond	CT	41.05560	-73.50317	8/16/2018	6:42	0642															0.19	25.41	25.38	76.20	5.42	4.05	24.98	0348	1007	3:48	10:07	30.6	22.8	0	none	0.10	3.94	0.00	0.77	3.79	1		
HOL-01	Holly Pond	CT	41.05548	-73.50317	9/14/2018	7:03	0703															0.22	22.92	24.88	58.80	4.38	4.32	9.47	0311	0922	3:11	9:22	23.9	20.0	60	none	0.16	1.89	0.06	0.23	1.92	2		
HOL-01	Holly Pond	CT	41.05493	-73.49967	9/28/2018	7:13	0713															0.13	17.86	3.26	87.80	8.18	18.46	2.59	0145	0756	1:45	7:56	21.7	13.9	100	light rain	0.25	4.66	0.59	5.25	5.25	3		
HOL-01	Holly Pond	CT	41.05547	-73.50282	10/16/2018	7:41	0741															0.14	15.01	17.57	88.10	7.56	4.20	6.48	0521	1143	5:21	11:43	13.9	6.7	20	none	0.08	1.29	0.15	0.24	1.35	1		
HOL-02	Holly Pond	CT	41.05455	-73.49935	5/7/2018	7:00	0700															0.50	10.14	25.33	103.40	9.64	2.02	7.28	0501	1145	5:01	11:45	17.8	11.1	55	none	0.01	0.34	0.01	0.02	0.33	0		
HOL-02	Holly Pond	CT	41.05457	-73.49910	5/22/2018	6:45	0645	0.50	15.36	24.27	98.80	8.31	3.78	6.94	0.94	14.31	24.96	101.10	8.64	3.01	9.82							0552	1225	5:52	12:25	18.9	12.2	80	none	0.05	1.91	0.25	0.83	1.75	1			
HOL-02	Holly Pond	CT	41.05437	-73.49975	6/5/2018	6:44	0644															0.60	17.17	24.67	98.20	7.94	3.48	9.93	0424	1058	4:24	10:58	23.5	10.1	50	none	0.31	0.42	0.42	0.45	0.55	1	Season average linear regression results applied to chlorophyll data.	
HOL-02	Holly Pond	CT	41.05462	-73.49937	6/15/2018	6:27	0627															0.53	17.76	25.30	90.30	7.23	11.42	0044	0719	0:44	7:19	26.7	17.8	10	none	0.04	0.04	0.00	0.04	0.04	1	Season average linear regression results applied to chlorophyll data.		
HOL-02	Holly Pond	CT	41.05592	-73.49870	7/6/2018	6:24	0624															0.51	27.23	25.01	85.40	5.92	9.42	16.84	0530	1150	5:30	11:50	30.6	20.6	90	light rain	0.00	0.02	0.15	0.17	0.17	2	Season average linear regression results applied to chlorophyll data.	
HOL-02	Holly Pond	CT	41.05455	-73.49928	7/19/2018	6:53	0653															0.62	20.63	26.50	74.50	5.73	2.56	9.14	0513	1134	5:13	11:34	27.8	18.9	0	none	0.74	1.24	0.00	0.74	1.24	1	Season average linear regression results applied to chlorophyll data.	
HOL-02	Holly Pond	CT	41.05460	-73.49972	8/1/2018	6:20	0620															0.44	24.70	26.75	86.40	6.16	3.16	9.46	0238	0901	2:38	9:01	28.9	21.1	100	light rain	0.00	0.92	0.17	0.77	0.65	1		
HOL-02	Holly Pond	CT	41.05460	-73.49910	8/16/2018	6:48	0648															0.46	25.26	25.41	84.40	6.04	2.34	18.63	0348	1007	3:48	10:07	30.6	22.8	0	none	0.10	3.94	0.00	0.77	3.79	1		
HOL-02	Holly Pond	CT	41.05453	-73.49930	8/30/2018	6:45	0645															0.35	27.22	26.73	88.10	6.15	2.61	17.82	0212	0829	2:12	8:29	32.8	23.9	20	none	0.00	0.00	0.00	0.00	0.00	2		
HOL-02	Holly Pond	CT	41.05488	-73.49930	9/14/2018	7:23	0723															0.44	22.60	26.09	86.00	6.35	4.73	6.13	0311	0922	3:11	9:22	23.9	20.0	60	none	0.16	1.89	0.06	0.23	1.92	2		
HOL-02	Holly Pond	CT	41.05433	-73.49937	9/28/2018	7:36	0736															0.36	20.49	22.76	90.10	7.09	2.62	5.73	0145	0756	1:45	7:56	21.7	13.9	100	light rain	0.25	4.66	0.59	5.25	5.25	3		
HOL-02	Holly Pond	CT	41.05450	-73.49967	10/16/2018	7:50	0750															0.30	15.91	22.01	93.40	7.99	4.76	6.17	0521	1143	5:21	11:43	13.9	6.7	20	none	0.08	1.29	0.15	0.24	1.35	1		
HOL-02	Holly Pond	CT	41.05457	-73.49992	10/26/2018	7:35	0735															0.32	11.98	25.73	93.90	8.60	1.23	4.73	1257	0655	12:57	6:55	8.9	2.2	70	none	0.00	0.07	0.00	0.01	0.07	1		
HOL-03	Holly Pond	CT	41.05237	-73.49492	5/7/2018	7:13	0713	0.50	11.00	25.33	94.50	8.76	2.74	7.41	0.98	10.55	25.51	90.50	8.32	7.80	14.34							0501	1145	5:01	11:45	17.8	11.1	55	none	0.01	0.34	0.01	0.02	0.33	0			
HOL-03	Holly Pond	CT	41.05215	-73.49495	5/22/2018	6:58	0658	0.50	16.38	24.34	97.80	8.04	5.68	8.54	1.29	14.22	24.83	100.20	8.59	4.57	9.09							0552	1225	5:52	12:25	18.9	12.2	80	none	0.05	1.91	0.25	0.83	1.75	1			
HOL-03	Holly Pond	CT	41.05248	-73.49498	6/5/2018	6:57	0657															0.72	17.59	24.70	97.80	7.84	5.50	11.84	0424	1058	4:24	10:58	23.5	10.1	50	none	0.31	0.42	0.42	0.45	0.55	1	Season average linear regression results applied to chlorophyll data.	
HOL-03	Holly Pond	CT	41.05228	-73.49488	6/15/2018	6:34	0634																																					

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:MM)	Time on Station, Military Time (HHMM)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (mg/L)	Surface Dissolved Oxygen (%)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (%)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (mg/L)	Mid Dissolved Oxygen (%)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (HHMM)	Time of Low Tide, Military Time (HHMM)	Time of High Tide, 24-Hour Time (MM:SS)	Time of Low Tide, 24-Hour Time (MM:SS)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Morning Precipitation State	Cumulative Precipitation for previous 2 days (inches)	Cumulative Precipitation for previous 7 days (inches)	Cumulative Precipitation for 4 days (inches)	Cumulative Precipitation for 7 days (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes						
HOU-0-03	Housatonic River	CT	41.17746	-73.12195	10/10/2018	7:47	0747	0.50	17.53	0.40	88.80	8.68	5.35	1.21	5.90	17.52	0.40	90.60	8.86	4.90	1.17							1250	0642	12:50	6:42	24.0	18.0	100	none	0.00	0.04	0.00	0.02	0.03	2								
HOU-0-04	Housatonic River	CT	41.17142	-73.11304	5/16/2018	7:53	0753	0.50	15.85	2.05	90.90	8.93		3.30	3.90	15.66	3.36	94.80	9.29									1257	0651	12:57	6:51	26.0	14.0	100	none	0.60	0.92	1.09	1.11	1.42	5								
HOU-0-04	Housatonic River	CT	41.17126	-73.11328	5/30/2018	8:09	0809	0.50	18.54	7.36	86.80	7.85		3.69	2.10	17.49	12.72	88.10	7.86									1256	0650	12:56	6:50	16.0	14.0	100	none	0.00	0.36	0.00	0.05	0.05	5								
HOU-0-04	Housatonic River	CT	41.17138	-73.11324	6/3/2018	8:03	0803	0.50	15.02	23.75	83.60	7.36	4.41	4.91	3.20	14.28	25.91	83.40	7.33	5.07	5.03							1146	0541	11:46	5:41	23.0	11.0	100	none	0.00	0.00	0.03	0.03	0.03	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-04	Housatonic River	CT	41.17189	-73.11339	6/27/2018	7:48	0748	0.50	21.22	11.84	84.90	7.01		4.62	4.80	18.81	25.68	86.10	6.98									1152	0547	11:52	5:47	24.0	14.0	90	none	0.00	0.43	0.08	0.08	0.48	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-04	Housatonic River	CT	41.17128	-73.11330	7/17/2018	8:02	0802	0.50	23.23	22.87	75.40	5.68	4.87	3.96	2.40	23.18	23.07	79.70	5.98	4.53	3.74							0318	0942	3:18	9:42	11.0	21.0	100	none	0.06	0.09	1.92	2.01	2.01	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-04	Housatonic River	CT	41.17132	-73.11317	7/27/2018	8:21	0821	0.50	24.20	12.31	72.80	5.77	3.55	3.04	2.60	22.96	25.78	75.90	5.68	9.24	3.49							1208	0601	12:08	6:01	29.0	23.0	0	none	0.93	1.71	0.12	1.01	1.79	2								
HOU-0-04	Housatonic River	CT	41.17126	-73.11298	8/8/2018	8:07	0807	0.50	22.81	28.27	56.30	4.14	4.33	6.69	3.80	22.78	28.26	60.50	4.45	3.66	6.51							0912	0309	9:12	3:09	32.0	24.0	10	none	0.00	0.53	0.05	0.05	0.37	1								
HOU-0-04	Housatonic River	CT	41.17117	-73.11301	8/22/2018	7:46	0746	0.50	23.81	24.88	93.50	6.85	9.30	6.06	3.80	23.80	26.74	95.00	6.89	5.76	6.48							0928	0323	9:28	3:23	25.0	18.0	90	none	0.00	1.21	0.09	0.20	1.30	4								
HOU-0-04	Housatonic River	CT	41.17112	-73.11292	9/12/2018	7:52	0752	0.50	21.62	6.89	77.80	6.71	7.37	2.16	2.00	21.62	7.79	84.50	7.17	8.02	2.29							0141	0756	1:41	7:56	25.0	16.0	100	misting rain	1.76	2.75	1.36	2.63	3.59	2	Season average linear regression results applied to chlorophyll data.							
HOU-0-04	Housatonic River	CT	41.17135	-73.11319	9/26/2018	8:02	0802	0.50	18.92	0.20	92.90	8.79	17.86	2.77	3.50	18.93	0.26	92.90	8.80	20.05	2.96							1256	0648	12:56	6:48	23.0	12.0	100	misting rain	1.97	1.97	2.43	2.43	2.43	2								
HOU-0-04	Housatonic River	CT	41.17113	-73.11283	10/10/2018	7:54	0754	0.50	17.61	0.61	89.10	8.68	4.82	1.21	2.70	17.62	0.68	90.30	8.79	4.08	1.25							1250	0642	12:50	6:42	24.0	18.0	100	none	0.00	0.04	0.00	0.02	0.03	2								
HOU-0-05	Housatonic River	CT	41.16261	-73.10052	5/16/2018	8:04	0804	0.50	15.64	4.09	96.30	9.37		2.83	4.00	12.99	24.21	97.90	8.95	3.69	3.69							1257	0651	12:57	6:51	26.0	14.0	100	none	0.60	0.92	1.09	1.11	1.42	5								
HOU-0-05	Housatonic River	CT	41.16246	-73.10051	5/30/2018	8:19	0819	0.50	18.12	9.66	99.60	8.96		4.30	3.80	14.91	25.14	96.20	8.42									1256	0650	12:56	6:50	16.0	14.0	100	none	0.00	0.36	0.00	0.05	0.05	5								
HOU-0-05	Housatonic River	CT	41.16227	-73.10029	6/13/2018	8:11	0811	0.50	14.30	26.71	88.00	7.69	4.84	6.33	4.60	14.36	26.65	91.00	7.93	4.25	6.44							1146	0541	11:46	5:41	23.0	11.0	100	none	0.00	0.00	0.03	0.03	0.03	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-05	Housatonic River	CT	41.16227	-73.10001	6/27/2018	7:56	0756	0.50	18.23	26.56	89.70	7.30		5.72	5.80	18.21	26.56	91.40	7.44									1152	0547	11:52	5:47	24.0	14.0	90	none	0.00	0.43	0.08	0.08	0.48	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-05	Housatonic River	CT	41.16253	-73.10018	7/17/2018	8:13	0813	0.50	22.85	24.51	72.50	5.46	5.64	3.71	5.20	22.75	24.68	78.60	5.88	6.19	3.85							0318	0942	3:18	9:42	11.0	21.0	10	none	0.06	0.09	1.92	2.01	2.01	3	Season average linear regression results applied to chlorophyll data.							
HOU-0-05	Housatonic River	CT	41.16241	-73.10066	7/27/2018	8:36	0836	0.50	23.18	27.47	86.40	6.38	3.93	4.45	2.10	23.16	27.48	86.50	6.39	5.10	5.71							1208	0601	12:08	6:01	29.0	23.0	0	none	0.93	1.71	0.12	1.01	1.79	2								
HOU-0-05	Housatonic River	CT	41.16230	-73.10047	8/8/2018	8:17	0817	0.50	23.02	28.22	64.10	4.68	3.62	9.02	3.80	23.01	28.20	72.90	5.33	3.56	8.91							0912	0309	9:12	3:09	32.0	24.0	10	none	0.00	0.53	0.05	0.05	0.37	1								
HOU-0-05	Housatonic River	CT	41.16214	-73.10043	8/22/2018	7:51	0751	0.50	23.81	27.20	97.80	7.10	3.01	7.06	2.60	23.80	27.16	97.90	7.12	4.04	7.30							0928	0323	9:28	3:23	25.0	18.0	90	none	0.00	1.21	0.09	0.20	1.30	4								
HOU-0-05	Housatonic River	CT	41.16214	-73.10030	9/12/2018	8:03	0803	0.50	21.64	9.38	75.50	6.43	6.86	2.05	1.50	21.64	9.38	76.00	6.46	6.90	2.23							0141	0756	1:41	7:56	25.0	16.0	100	misting rain	1.76	2.75	1.36	2.63	3.59	2	Season average linear regression results applied to chlorophyll data.							
HOU-0-05	Housatonic River	CT	41.16246	-73.10036	9/26/2018	8:13	0813	0.50	18.94	0.52	85.60	8.11	17.15	2.68	5.10	20.69	26.04	89.30	7.90	29.56	4.07							1256	0648	12:56	6:48	23.0	12.0	100	misting rain	1.97	1.97	2.43	2.43	2.43	2	Season average linear regression results applied to chlorophyll data.							
HOU-0-05	Housatonic River	CT	41.16263	-73.10022	10/10/2018	8:06	0806	0.50	17.76	1.10	81.50	7.88	3.55	1.21	4.70	20.72	25.80	87.80	6.90	6.96	1.28							1250	0642	12:50	6:42	24.0	18.0	100	none	0.00	0.04	0.00	0.02	0.03	2								
LNE-1-01	Little Neck Bay	NY	40.77224	-73.75791	5/8/2018	7:14	0714	0.76	11.90	23.62	149.30	13.91		54.39	1.87	10.97	23.85	131.50	12.49									0545	1246	5:45	12:46	23.9	13.3	0	none	0.00	0.01	0.00	0.00	0.01	0	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.							
LNE-1-01	Little Neck Bay	NY	40.77283	-73.75877	5/22/2018	6:59	0659	0.50	15.48	23.45	91.30	7.92	2.77	2.72	2.60	14.36	23.72	84.40	7.46	4.81	3.84							0603	1245	6:03	12:45	22.0	15.0	90	none	0.00	1.83	0.21	0.93	1.61	1								
LNE-1-01	Little Neck Bay	NY	40.77355	-73.75807	6/12/2018	7:01	0701																					054	17.84	24.74	113.70	9.86	5.43	118.05	1048	0456	10:48	4:56	22.8	15.6	0	none	0.01	0.01	0.00	0.01	0.01	0	
LNE-1-01	Little Neck Bay	NY	40.77262	-73.75800	6/26/2018	8:11	0811	0.53	21.10	24.98	78.30	6.03	2.31	15.26	1.48	21.10	24.98	77.20	5.94	2.24	15.69								1145	0540	11:45	5:40	25.0	17.8	0	none	0.01	1.25	0.00	0.01	1.20	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.						
LNE-1-01	Little Neck Bay	NY	40.77148	-73.75806	7/10/2018	9:10	0910	0.58	21.29	26.08	82.40	6.27	4.20	64.80	1.98	20.55	26.14	84.30	2.64	3.44	19.95							0912	0311	9:12	3:11	32.2	20.6	0	none	0.00	0.10	0.00	0.00	0.09	0	Data not collected within 3 hours of sunrise; data acceptable given sample depths and dissolved oxygen values comparable to other stations within the embayment within 3 hours of sunrise.							
LNE-1-01	Little Neck Bay	NY																																															

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Military Time (hhmm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (mg/L)	Surface Dissolved Oxygen (%)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (%)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (mg/L)	Mid Dissolved Oxygen (%)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (hhmm)	Time of Low Tide, Military Time (hhmm)	Time of High Tide, 24 Hour Time (M:mm)	Time of Low Tide, 24 Hour Time (M:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Cumulative Precipitation for previous 2 days (not sample dates) (inches)	Cumulative Precipitation for previous 7 days (not sample dates) (inches)	Cumulative Precipitation for 4 days (not sample dates) (inches)	Cumulative Precipitation for 7 days (not sample dates) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes			
NIR-04	Niantic River	CT	41.35038	-72.17937	7/27/2018	7:04	0704	0.50	26.00	29.23	101.00	6.95	1.71	9.79	2.90	24.62	29.33	71.40	5.08	3.12	9.96							1135	0546	11:35	5:46	27.8	21.1	100	none	0.86	2.14	0.84	0.89	2.16	0				
NIR-04	Niantic River	CT	41.35028	-72.17931	8/4/2018	6:41	0641	0.50	26.70	28.14	97.40	6.75	1.68	6.96	3.10	26.85	29.59	98.00	6.70	1.80	7.24							0402	1040	4:02	10:40	27.8	22.8	25	none	0.00	0.62	1.73	1.74	1.74	2				
NIR-04	Niantic River	CT	41.35033	-72.17941	8/18/2018	6:24	0624	0.50	25.86	29.17	113.70	7.87	1.91	12.42	3.20	24.67	29.48	96.80	6.84	2.29	11.13							0428	1105	4:28	11:05	27.8	22.2	100	light rain	0.00	0.59	0.61	0.61	0.92	0				
NIR-04	Niantic River	CT	41.35023	-72.17944	9/8/2018	6:56	0656	0.50	23.62	30.25	85.90	6.18	1.70	8.05	3.10	23.03	30.71	87.80	6.37	1.78	6.09							0923	0349	9:23	3:49	22.8	15.6	100	none	0.50	0.50	0.01	0.51	0.51	2				
NIR-04	Niantic River	CT	41.35033	-72.17946	9/22/2018	7:11	0711	0.50	22.09	28.43	96.90	7.32	2.93	14.49	2.75	21.96	29.29	91.20	6.81	3.71	8.80							0917	0325	9:17	3:25	22.2	15.0	30	none	0.00	0.84	0.00	0.00	0.84	2				
NIR-04	Niantic River	CT	41.35015	-72.17948	10/6/2018	7:29	0729	0.50	19.66	26.44	91.00	7.26	1.91	5.79	3.60	20.62	28.57	81.50	6.30	3.17	5.24							0819	0235	8:19	2:35	21.1	11.7	100	none	0.00	0.00	0.00	0.00	0.00	3				
NIR-04	Niantic River	CT	41.35012	-72.17930	10/20/2018	7:36	0736	0.50	14.09	26.35	97.30	8.54	2.52	4.33	3.50	14.38	27.23	96.00	8.32	3.35	4.84							0807	0201	8:07	2:01	16.1	7.8	100	none	0.00	0.00	0.00	0.00	0.00	4				
NIR-05	Niantic River	CT	41.33999	-72.17749	5/19/2018	6:35	0635	0.50	11.45	28.22	100.20	9.29	1.60	1.35	1.50	11.25	28.52	97.30	9.02	2.18	3.07							0743	1246	7:43	12:46	16.1	8.9	100	none	0.23	0.94	0.80	1.12	1.63	1				
NIR-05	Niantic River	CT	41.33974	-72.17729	6/2/2018	6:41	0641	0.50	19.35	27.67	119.10	9.26	1.07	4.46	1.20	16.25	29.06	108.80	8.89	2.75	4.74							0707	1228	7:07	12:28	21.1	15.6	75	fog	0.26	0.26	1.52	1.52	1.52	1				
NIR-05	Niantic River	CT	41.33993	-72.17738	6/30/2018	6:30	0630	0.50	21.53	29.33	104.70	7.81	1.96	3.48	1.10	21.49	29.33	102.80	7.70	1.76	4.00			0.70	23.05	30.81	103.50	7.51	< 1	3.21	0.56	1154	5:56	11:54	28.9	17.8	0	none	0.21	0.42	0.00	0.21	0.38	1	
NIR-05	Niantic River	CT	41.33976	-72.17727	7/14/2018	6:25	0625																					0515	1056	5:15	10:56	23.9	15.0	75	none	0.00	0.13	0.00	0.13	0.13	1				
NIR-05	Niantic River	CT	41.33961	-72.17744	7/27/2018	7:17	0717	0.50	25.70	27.77	98.00	6.90	2.66	5.40	1.25	25.83	28.71	97.10	6.75	4.62	6.03							1135	0546	11:35	5:46	27.8	21.1	100	none	0.86	2.14	0.84	0.89	2.16	0				
NIR-05	Niantic River	CT	41.33979	-72.17731	8/4/2018	6:47	0647	0.50	26.70	29.42	99.40	6.84	1.20	5.09	1.50	26.54	29.51	99.70	6.46	1.22	4.83							0402	1040	4:02	10:40	27.8	22.8	25	none	0.00	0.62	1.73	1.74	1.74	2				
NIR-05	Niantic River	CT	41.33972	-72.17724	8/18/2018	6:33	0633	0.50	24.95	29.54	110.20	7.73	1.84	8.64	1.80	23.92	29.72	93.20	6.66	3.80	8.33							0428	1105	4:28	11:05	27.8	22.2	100	light rain	0.00	0.59	0.61	0.61	0.92	0				
NIR-05	Niantic River	CT	41.33974	-72.17738	9/8/2018	7:05	0705	0.50	22.91	30.46	81.40	5.93	3.21	4.57	1.50	22.78	30.55	80.40	5.87	3.89	4.37							0923	0349	9:23	3:49	22.8	15.6	100	none	0.50	0.50	0.01	0.51	0.51	2				
NIR-05	Niantic River	CT	41.33952	-72.17694	9/22/2018	7:18	0718	0.50	21.88	29.23	80.40	6.03	2.95	6.27	2.00	21.75	29.67	77.50	5.81	3.13	3.88							0917	0325	9:17	3:25	22.2	15.0	30	none	0.00	0.84	0.00	0.00	0.84	2				
NIR-05	Niantic River	CT	41.33977	-72.17738	10/6/2018	7:37	0737	0.50	19.24	25.42	90.70	7.32	1.91	4.61	2.00	19.82	29.05	87.20	6.82	3.07	2.20							0819	0235	8:19	2:35	21.1	11.7	100	none	0.00	0.00	0.00	0.00	0.00	3				
NIR-05	Niantic River	CT	41.33967	-72.17728	10/20/2018	7:43	0743	0.50	14.54	27.66	91.70	7.90	2.15	3.17	2.00	14.82	28.74	93.30	7.91	4.13	2.44							0807	0201	8:07	2:01	16.1	7.8	100	none	0.00	0.00	0.00	0.00	0.00	4				
NIR-06	Niantic River	CT	41.33762	-72.18724	5/19/2018	5:45	0545	0.50	13.72	25.02	100.00	9.04	1.59	4.94	2.10	11.17	28.30	94.70	8.83	2.10	8.66							0743	1246	7:43	12:46	16.1	8.9	100	none	0.23	0.94	0.80	1.12	1.63	1				
NIR-06	Niantic River	CT	41.33772	-72.18736	6/2/2018	5:44	0544	0.50	20.74	23.08	135.60	10.55	1.62	12.68	1.50	18.42	28.44	117.60	9.26	3.17	5.51							0707	1228	7:07	12:28	21.1	15.6	75	fog	0.26	0.26	1.52	1.52	1.52	1				
NIR-06	Niantic River	CT	41.33772	-72.18702	6/30/2018	5:40	0540	0.50	23.93	28.21	119.50	8.59	1.97	8.39	1.40	23.44	28.60	111.00	8.03	3.88	8.77							0556	1154	5:56	11:54	28.9	17.8	0	none	0.21	0.42	0.00	0.21	0.38	1				
NIR-06	Niantic River	CT	41.33766	-72.18729	7/4/2018	5:46	0546	0.50	24.51	30.58	105.40	7.46	2.25	4.11	1.30	24.46	30.62	104.40	7.39	1.82	4.64							0515	1056	5:15	10:56	23.9	15.0	75	none	0.00	0.13	0.00	0.13	0.13	1				
NIR-06	Niantic River	CT	41.33787	-72.18658	7/27/2018	7:37	0737	0.50	26.20	28.21	91.80	6.34	1.20	5.80	1.80	26.34	28.82	87.30	6.03	1.28	4.11							1135	0546	11:35	5:46	27.8	21.1	100	none	0.86	2.14	0.84	0.89	2.16	0				
NIR-06	Niantic River	CT	41.33776	-72.18723	8/4/2018	5:46	0546	0.50	27.50	29.23	85.80	5.83	1.35	4.60	1.60	27.34	29.30	85.50	5.82	1.44	5.47							0402	1040	4:02	10:40	27.8	22.8	25	none	0.00	0.62	1.73	1.74	1.74	2				
NIR-06	Niantic River	CT	41.33770	-72.18732	8/18/2018	5:41	0541	0.50	25.64	29.27	89.00	6.18	2.14	9.89	2.00	25.11	29.59	88.60	6.08	2.20	10.39							0428	1105	4:28	11:05	27.8	22.2	100	light rain	0.00	0.59	0.61	0.61	0.92	0				
NIR-06	Niantic River	CT	41.33772	-72.18750	9/8/2018	6:15	0615	0.50	24.56	30.03	59.40	4.20	2.77	16.67	1.00	24.77	30.03	59.60	4.23	2.87	16.05							0923	0349	9:23	3:49	22.8	15.6	100	none	0.50	0.50	0.01	0.51	0.51	2				
NIR-06	Niantic River	CT	41.33770	-72.18745	9/22/2018	6:33	0633	0.50	22.14	28.59	82.90	6.20	2.59	12.25	1.50	22.13	29.07	84.80	6.32	2.77	9.29							0917	0325	9:17	3:25	22.2	15.0	30	none	0.00	0.84	0.00	0.00	0.84	2				
NIR-06	Niantic River	CT	41.33778	-72.18758	10/6/2018	6:48	0648	0.50	18.80	23.22	90.50	7.47	1.75	7.46	1.80	19.83	25.74	90.40	7.20	1.86	8.05							0819	0235	8:19	2:35	21.1	11.7	100	none	0.00	0.00	0.00	0.00	0.00	3				
NIR-06	Niantic River	CT	41.33774	-72.18735	10/20/2018	7:04	0704	0.50	14.61	26.60	91.40	7.94	2.49	9.81	1.50	15.13	27.39	86.																											

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Midday Time (hh:mm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Conductivity (µS/cm)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (µM)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Midday Time (hh:mm)	Time of Low Tide, Midday Time (hh:mm)	Time of High Tide, 24 Hour Time (hh:mm)	Time of Low Tide, 24 Hour Time (hh:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (inches)	Morning Precipitation (mm)	Cumulative Precipitation for previous 2 days (includes sample date) (inches)	Cumulative Precipitation for previous 7 days (includes sample date) (inches)	Cumulative Precipitation for 14 days (includes sample date) (inches)	Cumulative Precipitation for 21 days (includes sample date) (inches)	Cumulative Precipitation for 28 days (includes sample date) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes		
NIS-04	Nissequogue River	NY	40.89899	-73.22430	10/4/2018	7:50	0750	0.50	20.99	25.70	115.60	8.91	1.02	6.23	2.38	21.31	26.52	117.10	8.93	1.41	8.15	1.44	21.29	26.56	117.80	8.99	1.14	8.29	0736	1358	7:36	1358	24.4	17.2	0	0	0	0.93	1.88	0.04	0.93	1.88	1			
NIS-04	Nissequogue River	NY	40.89892	-73.22424	10/19/2018	7:55	0755	0.50	14.57	25.88	92.10	8.10	<1	2.30	1.45	14.95	26.13	93.70	8.17	<1	2.31	0.97	14.60	25.93	92.50	8.10	<1	2.31	0826	1443	8:26	1443	17.2	0.6	0	0.00	2.06	0.00	0.00	2.06	2	Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.				
NIS-05	Nissequogue River	NY	40.90104	-73.21758	6/12/2018	6:53	0653																																							
NIS-05	Nissequogue River	NY	40.90104	-73.21774	6/22/2018	7:09	0709	0.50	16.99	26.18	89.90	7.38	<1	4.21	2.19	17.01	26.07	91.60	7.51	<1	5.34	1.34	16.98	26.10	90.10	7.40	<1	4.61	1400	0748	1400	7:48	28.3	17.8	75	none	0.98	1.01	0.96	1.00	1.01	3	Season average linear regression results applied to chlorophyll data. Turbidity (value) below detection limit.			
NIS-05	Nissequogue River	NY	40.90114	-73.21766	7/8/2018	6:55	0655	0.50	20.69	26.26	92.90	7.25	1.43	4.71	1.88	20.69	25.92	93.80	7.30	2.19	4.68	1.19	20.69	26.23	93.20	7.27	1.74	4.93	0738	1353	7:38	1353	23.3	16.7	0	0.00	0.05	0.00	0.05	0.05	1					
NIS-05	Nissequogue River	NY	40.90123	-73.21766	7/27/2018	7:20	0720																																							
NIS-05	Nissequogue River	NY	40.90127	-73.21767	8/7/2018	7:32	0732	0.50	24.71	25.90	81.40	5.89	1.71	5.77	2.07	24.70	26.27	81.70	5.86	2.77	7.30	1.28	24.72	26.13	80.40	5.79	1.72	6.57	0438	1056	4:38	1056	31.7	23.3	0	0.00	2.52	0.02	0.03	2.54	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.				
NIS-05	Nissequogue River	NY	40.90123	-73.21763	9/3/2018	7:55	0755	0.50	23.88	26.36	67.70	4.97	1.48	9.97	2.23	23.84	27.20	64.20	4.86	2.37	6.87	1.36	23.87	26.79	66.40	4.86	1.52	11.46	0537	1153	5:37	1153	26.1	17.2	100	none	0.00	0.00	0.00	0.00	0.00	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.			
NIS-05	Nissequogue River	NY	40.90137	-73.21767	9/19/2018	8:02	0802	0.50	22.58	26.90	97.40	7.15	1.04	12.80	2.27	22.61	26.85	97.50	7.17	1.11	11.97	1.38	22.61	26.86	97.30	7.16	1.04	13.18	0814	0224	8:14	2:24	26.7	20.0	0	0.00	0.66	0.69	0.66	0.66	0.66	4				
NIS-05	Nissequogue River	NY	40.90125	-73.21767	10/4/2018	8:05	0805	0.50	21.21	26.45	118.80	9.08	1.15	5.96	2.82	21.23	26.48	113.90	8.70	2.58	9.02	1.66	21.22	26.54	118.20	9.03	<1	7.27	0736	1358	7:36	1358	24.4	17.2	0	0.00	0.93	1.88	0.04	0.93	1.88	1	Turbidity (value) below detection limit.			
NIS-05	Nissequogue River	NY	40.90121	-73.21767	10/19/2018	8:08	0808	0.50	13.67	25.70	91.20	8.16	1.10	2.01	1.60	13.98	26.31	95.60	8.49	<1	2.40	1.05	14.52	26.17	93.30	8.20	<1	2.26	0826	1443	8:26	1443	17.2	0.6	0	0.00	2.06	0.00	0.00	2.22	2	Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.				
NIS-06	Nissequogue River	NY	40.89798	-73.21611	6/12/2018	6:33	0633																																							
NIS-06	Nissequogue River	NY	40.89863	-73.21593	6/22/2018	7:19	0719	0.50	17.51	25.94	91.30	7.43	<1	3.74	1.90	17.67	26.16	93.30	7.63	<1	4.80	1.20	17.34	26.11	92.30	7.54	<1	4.35	1400	0748	1400	7:48	28.3	17.8	75	none	0.98	1.01	0.96	1.00	1.01	3	Season average linear regression results applied to chlorophyll data. Turbidity (value) below detection limit.			
NIS-06	Nissequogue River	NY	40.89865	-73.21602	7/8/2018	7:05	0705	0.50	20.77	26.12	94.40	7.35	1.77	4.40	1.46	20.78	25.96	95.00	7.39	2.12	4.75	0.98	20.77	26.19	94.50	7.35	2.66	5.00	0738	1353	7:38	1353	23.3	16.7	0	0.00	0.05	0.05	0.00	0.05	0.05	1				
NIS-06	Nissequogue River	NY	40.89832	-73.21599	7/27/2018	7:33	0733																																							
NIS-06	Nissequogue River	NY	40.89893	-73.21607	8/17/2018	7:45	0745																																							
NIS-06	Nissequogue River	NY	40.89865	-73.21618	9/3/2018	8:05	0805	0.50	23.97	26.41	69.40	5.08	1.62	12.15	1.44	23.96	26.44	69.60	5.09	1.44	11.50	0.97	23.97	26.45	69.40	5.08	1.76	12.91	0537	1153	5:37	1153	26.1	17.2	100	none	0.00	0.00	0.00	0.00	0.00	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.			
NIS-06	Nissequogue River	NY	40.89873	-73.21603	9/19/2018	8:15	0815	0.50	22.62	26.61	94.20	6.94	1.34	9.90	1.46	22.60	26.67	95.40	7.03	1.33	11.17	0.98	22.63	26.53	94.60	6.97	1.35	9.97	0814	0224	8:14	2:24	26.7	20.0	0	0.00	0.66	0.69	0.66	0.66	0.66	4				
NIS-06	Nissequogue River	NY	40.89877	-73.21611	10/4/2018	8:25	0825	0.50	21.19	26.44	118.80	9.08	1.32	7.32	1.72	21.22	26.50	116.50	8.92	1.17	7.44	1.11	21.21	26.45	118.70	9.07	1.18	7.36	0736	1358	7:36	1358	24.4	17.2	0	0.00	0.93	1.88	0.04	0.93	1.88	1				
NIS-06	Nissequogue River	NY	40.89874	-73.21607	10/19/2018	8:15	0815	0.50	13.96	25.76	92.30	8.22	<1	2.06	1.37	13.93	26.12	95.10	8.47	<1	2.25	0.93	13.90	25.96	93.00	8.29	<1	2.28	0826	1443	8:26	1443	17.2	0.6	0	0.00	2.06	0.00	0.00	0.00	2.22	2	Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.			
NIS-07	Nissequogue River	NY	40.90419	-73.22968	6/12/2018	7:50	0750	0.50	16.12	25.70	91.20	8.16	1.10	2.01	1.60	13.98	26.31	95.60	8.49	<1	2.40	1.05	14.52	26.17	93.30	8.20	<1	2.26	0826	1443	8:26	1443	17.2	0.6	0	0.00	2.06	0.00	0.00	0.00	2.22	2	Turbidity (value) below detection limit. Coordinates not recorded in the field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.			
NIS-07	Nissequogue River	NY	40.90440	-73.23027	6/22/2018	6:32	0632	0.50	17.65	25.82	91.60	7.44	<1	6.51	3.17	17.63	25.92	92.40	7.50	<1	6.67	1.83	17.61	25.88	91.50	7.44	<1	6.07	1400	0748	1400	7:48	28.3	17.8	75	none	0.98	1.01	0.96	1.00	1.01	3	Season average linear regression results applied to chlorophyll data. Turbidity (value) below detection limit.			
NIS-07	Nissequogue River	NY	40.90428	-73.22983	7/8/2018	6:20	0620	0.50	20.86	26.06	95.70	7.45	1.74	4.89	3.60	20.88	26.29	96.20	7.48	1.67	4.97	2.05	20.87	26.29	95.80	7.45	1.47	6.01	0738	1353	7:38	1353	23.3	16.7	0	0.00	0.05	0.05	0.00	0.05	0.05	1				
NIS-07	Nissequogue River	NY	40.90420	-73.22974	7/27/2018	7:01	0701	0.50	23.12	22.82	67.90	5.09	2.29	3.51	1.88	23.12	23.39	71.90	5.35	2.54	3.77	1.19	23.12	23.22	68.00	5.08	1.97	4.72	1213	0611	12:13	6:11	28.3	22.2	0	0.00	2.27	1.44	0.10	3.00	1.47	1	Season average linear regression results applied to chlorophyll data.			
NIS-07	Nissequogue River	NY	40.90432	-73.23000	8/17/2018	6:55	0655	0.50	24.57	26.78	90.20	6.47	1.45	9.53	3.22	24.53	26.94	90.30	6.48	1.53	11.06	1.86	24.57	26.72	90.00	6.45	1.43	10.31	0438	1056	4:38	1056	31.7	23.3	0	0.00	2.52	0.02	0.03	2.54	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.				
NIS-07	Nissequogue River	NY	40.90453	-73.22985	9/3/2018	7:55	0755	0.50	23.81	27.18	82.30	6.01	1.03	9.35	4.04	23.82	27.22	82.20	6.00	1.06	11.28	1.77	23.82	27.27	82.20	6.00	<1	10.25	0537	1153	5:37	1153	26.1	17.2	100	none	0.00	0.00	0.00	0.00	0.00	1	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept. Turbidity (value) below detection limit.			
NIS-07	Nissequogue River	NY	40.90398	-73.22950	9/19/2018	7:32	0732	0.50	22.64	26.60	94.80	6.98	1.37	12.42	3.30	22.65	26.44	95.20	7.01	1.08	14.37	1.90	22.65	26.67	95.00	6.99	1.12	15.72	0814	0224	8:14															

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:MM)	Time on Station, Military Time (HH:MM)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (mg/L)	Surface Dissolved Oxygen (%)	Surface Chlorophyll (µg/L)	Surface Chlorophyll (NTU)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (%)	Bottom Turbidity (NTU)	Bottom Chlorophyll (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (mg/L)	Mid Dissolved Oxygen (%)	Mid Turbidity (NTU)	Mid Chlorophyll (µg/L)	Time of High Tide, Military Time (HH:MM)	Time of Low Tide, Military Time (HH:MM)	Time of High Tide, 24 Hour Time (HH:MM)	Time of Low Tide, 24 Hour Time (HH:MM)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation (mm)	Cumulative Precipitation for previous 2 Days (includes sample date) (inches)	Cumulative Precipitation for previous 7 Days (includes sample date) (inches)	Cumulative Precipitation for 2 Days (includes sample date) (inches)	Cumulative Precipitation for 4 Days (includes sample date) (inches)	Cumulative Precipitation for 7 Days (includes sample date) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
NWH-O-04	Norwalk Harbor	CT	41.06758	-73.39835	6/19/2018	7:09	0709	0.50	16.45	26.41	95.20	8.05	4.72	6.03	3.94	16.44	26.52	97.70	8.21	6.61	6.28							0434	1108	4:34	11:08	30.0	17.0	20	none	0.01	0.02	0.01	0.01	0.02	3	Season average linear regression results applied to chlorophyll data.	
NWH-O-04	Norwalk Harbor	CT	41.06776	-73.39856	7/11/2018	7:07	0707	0.50	20.58	26.38	86.70	6.88	6.43	5.45	4.22	20.50	26.59	85.50	6.79	6.17	5.08							1023	0433	10:23	4:33	27.2	16.7	10	none	0.00	0.09	0.01	0.01	0.10	3		
NWH-O-04	Norwalk Harbor	CT	41.06748	-73.39843	8/2/2018	7:03	0703	0.50	24.53	26.71	88.10	6.75	< 1	5.96	3.85	24.11	26.95	87.20	6.68	< 1	10.21							0322	0941	3:22	9:41	30.5	22.8	25	none	0.00	1.27	0.00	0.00	1.26	2	Turbidity (values) below detection limit.	
NWH-O-04	Norwalk Harbor	CT	41.06760	-73.39850	8/15/2018	7:09	0709	0.50	23.71	26.27	83.40	6.21	4.27	3.87	3.47	26.66	27.12	72.70	5.60	5.40	4.59							0251	0910	2:51	9:10	29.0	21.7	50	none	0.89	1.10	0.88	0.89	1.10	0	Season average linear regression results applied to chlorophyll data.	
NWH-O-04	Norwalk Harbor	CT	41.06764	-73.39851	9/19/2018	8:11	0811	0.50	23.15	26.32	87.60	6.79	1.55	12.47	5.12	22.90	26.81	79.40	6.14	2.77	6.14							0708	1301	7:08	13:01	26.1	15.6	10	none	0.04	0.65	0.04	0.04	0.57	2		
NWH-O-04	Norwalk Harbor	CT	41.06754	-73.39852	10/2/2018	7:12	0712	0.50	20.63	26.22	94.40	7.74	1.48	4.89	4.68	20.71	26.32	88.80	7.26	2.55	6.10							0520	1140	5:20	11:40	23.3	15.6	75	none	0.00	0.45	0.00	0.00	0.57	2		
NWH-O-04	Norwalk Harbor	CT	41.06771	-73.39864	10/23/2018	7:13	0713	0.50	14.94	26.72	96.40	8.81	1.14	2.43	3.90	15.23	26.88	91.00	8.25	1.84	2.08							1107	0504	11:07	5:04	8.8	-0.2	95	none	0.05	0.23	0.01	0.10	0.10	0		
NWH-O-05	Norwalk Harbor	CT	41.07410	-73.39134	5/1/2018	6:57	0657	0.50	7.90	25.74	96.00	9.74	2.98	3.72	2.46	7.42	26.22	98.10	9.39	3.26	8.43							1318	0719	13:18	7:19	19.4	11.1	70	none	0.11		0.00	0.11	0.10	0		
NWH-O-05	Norwalk Harbor	CT	41.07397	-73.39121	5/15/2018	7:05	0705	0.50	13.53	25.56	94.10	8.71	2.37	2.73	2.68	13.53	25.57	94.30	8.72	3.14	2.68							1209	0610	12:09	6:10	19.4	10.6	100	missing rain	0.13	0.15	0.02	0.15	0.16	5	Removed one extracted chlorophyll filter result from linear regression calculation. Output results closer to seasonal average of linear slope and intercept.	
NWH-O-05	Norwalk Harbor	CT	41.07405	-73.39129	6/5/2018	7:04	0704	0.50	16.69	25.64	95.30	7.93	6.37	2.99	4.25	16.48	25.86	89.60	7.48	4.65	4.30							0429	1104	4:29	11:04	20.1	9.6	5	none	0.31	0.42	0.29	0.32	0.42	1		
NWH-O-05	Norwalk Harbor	CT	41.07405	-73.39121	6/19/2018	6:55	0655	0.50	17.69	26.25	94.00	7.80	4.51	5.00	3.96	16.96	26.45	94.00	8.24	5.51	6.07							0434	1108	4:34	11:08	30.0	17.0	20	none	0.01	0.02	0.01	0.01	0.02	3	Season average linear regression results applied to chlorophyll data.	
NWH-O-05	Norwalk Harbor	CT	41.07404	-73.39138	7/11/2018	6:57	0657	0.50	19.59	26.34	81.50	6.56	5.97	4.62	3.64	19.62	26.42	77.20	6.23	5.70	5.30							1023	0433	10:23	4:33	27.2	16.7	10	none	0.00	0.09	0.01	0.01	0.10	3		
NWH-O-05	Norwalk Harbor	CT	41.07400	-73.39127	8/2/2018	6:55	0655	0.50	24.65	25.86	86.30	6.55	< 1	5.54	3.34	24.31	26.39	79.00	6.04	< 1	4.66								0322	0941	3:22	9:41	30.5	22.8	25	none	0.00	1.27	0.00	0.00	1.26	2	Turbidity (values) below detection limit.
NWH-O-05	Norwalk Harbor	CT	41.07404	-73.39113	8/15/2018	7:00	0700	0.50	23.85	26.00	90.20	6.89	4.95	4.70	2.98	23.82	26.80	74.50	5.75	4.59	5.17							0251	0910	2:51	9:10	29.0	21.7	50	none	0.89	1.10	0.88	0.89	1.10	0	Season average linear regression results applied to chlorophyll data.	
NWH-O-05	Norwalk Harbor	CT	41.07445	-73.39086	9/19/2018	7:56	0756	0.50	23.15	26.29	95.90	7.44	2.03	10.75	4.77	23.15	26.43	87.80	6.79	2.39	7.35							0708	1301	7:08	13:01	26.1	15.6	10	none	0.04	0.65	0.04	0.04	0.57	2		
NWH-O-05	Norwalk Harbor	CT	41.07406	-73.39101	10/2/2018	7:02	0702	0.50	20.36	25.79	93.60	7.70	1.62	4.67	4.36	20.64	26.28	86.70	7.08	2.69	4.15							0520	1140	5:20	11:40	23.3	15.6	75	none	0.00	0.45	0.00	0.00	0.57	2		
NWH-O-05	Norwalk Harbor	CT	41.07394	-73.39140	10/23/2018	7:00	0700	0.50	15.18	26.90	92.10	8.39	1.41	2.11	3.33	15.19	26.82	90.70	8.29	1.78	2.65							1107	0504	11:07	5:04	8.8	-0.2	95	none	0.05	0.23	0.01	0.10	0.10	0		
OCC-COL-01	Cold Spring Harbor	NY	40.86251	-73.46497	5/9/2018	8:34	0834	0.50	15.06	24.35	148.00	13.70	3.28	34.14	6.43	11.67	25.42	109.70	10.28	2.88	48.30							0700	1258	7:00	12:58	19.0	8.0	0	none	0.00	0.00	0.00	0.00	0.00	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86245	-73.46501	5/23/2018	8:17	0817	0.50	14.98	23.31	70.50	6.77	2.30	5.85	5.67	13.89	24.94	66.90	6.47	12.89	5.69							0701	1255	7:01	12:55	19.0	14.0	95	missing rain	0.11	0.15	0.16	0.15	1.11	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86261	-73.46514	6/7/2018	8:18	0818	0.50	18.09	23.46	113.10	9.48	2.67	28.86	6.45	16.20	25.22	107.60	9.16	4.36	24.81							0613	1214	6:13	12:14	21.0	12.0	95	none	0.00	0.00	0.00	0.32	2.12	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86246	-73.46498	6/20/2018	8:00	0800	0.50	21.55	24.07	77.40	6.63	4.91	29.83	6.00	19.65	25.02	67.50	5.79	6.71	44.59							0536	1157	5:36	11:57	30.0	18.0	20	none	0.02	0.01	0.02	0.02	0.12	1	Season average linear regression results applied to chlorophyll data.	
OCC-COL-01	Cold Spring Harbor	NY	40.86250	-73.46502	7/10/2018	8:11	0811	0.50	21.23	25.35	66.80	5.66	2.72	27.22	6.83	20.70	25.93	65.00	5.52	3.12	29.78							0923	0320	9:23	3:20	28.0	17.0	0	none	0.00	0.00	0.00	0.00	0.04	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86259	-73.46503	7/26/2018	8:29	0829	0.50	22.23	25.63	61.80	4.77	2.10	21.05	5.92	21.75	26.47	53.70	4.10	3.90	7.64							1124	0520	11:24	5:20	27.0	21.0	95	missing rain	1.20	1.99	2.04	2.90	1			
OCC-COL-01	Cold Spring Harbor	NY	40.86260	-73.46498	8/7/2018	8:37	0837	0.50	25.66	24.83	58.60	4.33	5.44	84.45	6.73	24.65	26.38	52.40	3.76	2.88	31.89							0800	0156	8:00	1:56	32.0	24.0	0	none	0.00	0.00	0.00	0.72	0.73	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86259	-73.46500	8/21/2018	8:48	0848	0.50	23.68	24.55	54.60	4.36	3.16	38.08	7.09	23.86	26.64	45.50	3.56	3.49	9.75							0838	0233	8:38	2:33	23.0	19.0	35	none	0.00	0.00	0.00	0.71	0.72	1		
OCC-COL-01	Cold Spring Harbor	NY	40.86256	-73.46508	10/5/2018	10:57	1057	0.50	20.92	24.27	99.30	5.77	2.15	17.15	6.95	21.49	25.71	85.70	8.59	3.45	9.17							0835	0225	8:35	2:25	23.0	15.0	50	none	0.15	0.03	0.79	0.79	1	Data not collected within 3 hours of sunrise; data acceptable given sample depths and dissolved oxygen values comparable to other stations within the embayment within 3 hours of sunrise.		
OCC-COL-01	Cold Spring Harbor	NY	40.86253	-73.46502	10/19/2018	10:00	1000	0.50	14.10	23.64	98.50	9.85	1.42	5.36	6.30	15.19	25.23	100.80	9.72	1.64	11.32							0808	0200	8:08	2:00	10.0	2.0	20	none	0.00	0.00	0.03	0.24	1			
OCC-COL-02	Cold Spring Harbor	NY	40.86667	-73.46331	5/9/2018	8:22	0822	0.50	15.06	23.86	165.80	14.58	5.49	43.67	5.42	11.59	25.47	142.10	13.33	2.60	45.33							0700	1258	7:00	12:58	19.0	8.0	0	none	0.00	0.00	0.00	0.00	0.00	1		
OCC-COL-02	Cold Spring Harbor																																										

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:MM)	Time on Station, Military Time (HH:MM)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (mg/L)	Surface Dissolved Oxygen (%)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (%)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (mg/L)	Mid Dissolved Oxygen (%)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Military Time (HH:MM)	Time of Low Tide, Military Time (HH:MM)	Time of High Tide, 24 Hour Time (M:MM)	Time of Low Tide, 24 Hour Time (M:MM)	High Air Temperature, prevailing 24 hours (°C)	Low Air Temperature, prevailing 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation State	Morning Precipitation State	Cumulative Precipitation for previous 2 days (not sample dates) (inches)	Cumulative Precipitation for previous 7 days (not sample dates) (inches)	Cumulative Precipitation for 4 days (not sample dates) (inches)	Cumulative Precipitation for 7 days (not sample dates) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
OCC-COL-07	Cold Spring Harbor	NY	40.91499	-73.50961	7/10/2018	7:06	0706	0.50	20.87	26.02	104.50	8.90	< 1	5.22	3.80	20.73	26.08	103.30	8.72	< 1	8.32							0923	0320	9:23	3:20	28.0	17.0	0	none	0.00	0.00	0.00	0.00	0.04	1	Turbidity (values) below detection limit.	
OCC-COL-07	Cold Spring Harbor	NY	40.91502	-73.50973	7/26/2018	7:15	0715	0.50	21.72	26.69	72.50	5.62	< 1	6.67	2.90	21.53	26.76	69.20	5.32	< 1	3.44							1124	0520	11:24	5:20	27.0	21.0	95	missing rain	1.20	1.99	2.04	2.90	1	Turbidity (values) below detection limit.		
OCC-COL-07	Cold Spring Harbor	NY	40.91520	-73.50973	8/7/2018	7:40	0740	0.50	25.17	26.56	120.50	8.97	< 1	12.86	4.54	23.99	26.82	114.40	8.41	< 1	11.89							0800	0156	8:00	1:56	32.0	24.0	0	none	0.00	0.00	0.72	0.73	1	Turbidity (values) below detection limit.		
OCC-COL-07	Cold Spring Harbor	NY	40.91507	-73.51003	8/21/2018	7:38	0738	0.50	22.83	27.07	63.60	5.08	< 1	6.20	4.62	22.88	27.16	56.70	4.51	1.42	4.23							0838	0233	8:38	2:33	23.0	19.0	35	none	0.00	0.00	0.71	0.72	1	Turbidity (values) below detection limit.		
OCC-COL-07	Cold Spring Harbor	NY	40.91513	-73.50970	9/6/2018	7:58	0758	0.50	25.42	27.17	90.40	7.21	1.90	5.88	4.58	24.73	27.25	80.40	6.29	1.78	3.67							0847	0241	8:47	2:41	30.0	23.0	50	none	0.00	0.00	0.00	0.00	1	Season average linear regression results applied to chlorophyll data.		
OCC-COL-07	Cold Spring Harbor	NY	40.91494	-73.50981	10/5/2018	9:18	0918	0.50	21.30	26.08	99.70	9.64	< 1	6.45	4.94	21.29	26.05	99.40	9.61	< 1	6.91							0835	0245	8:35	2:25	23.0	15.0	50	none	0.15	0.03	0.79	0.79	1	Turbidity (values) below detection limit.		
OCC-COL-07	Cold Spring Harbor	NY	40.91512	-73.50974	10/19/2018	8:50	0850	0.50	16.62	25.74	96.30	9.02	< 1	2.99	4.00	16.62	25.75	95.50	8.96	< 1	3.92							0808	0200	8:08	2:00	10.0	2.0	20	none	0.00	0.00	0.03	0.24	1	Turbidity (values) below detection limit.		
OCC-MNC-01	Mill Neck Creek	NY	40.89889	-73.56747	5/9/2018	5:42	0542	0.50	16.74	24.50	117.90	10.05	4.67	22.13	1.62	16.59	24.82	117.90	10.05	5.67	23.68							0700	1258	7:00	12:58	19.0	8.0	0	none	0.00	0.00	0.00	0.00	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89877	-73.56776	5/23/2018	5:29	0529	0.50	16.08	24.55	78.00	7.24	7.18	10.57	2.71	16.04	24.56	77.90	7.24	6.48	10.13							0701	1255	7:01	12:55	19.0	14.0	95	missing rain	0.11	0.15	0.16	1.55	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89891	-73.56763	6/7/2018	5:22	0522	0.50	19.33	24.48	99.50	8.03	5.04	17.00	2.57	19.17	24.85	99.40	8.03	7.67	17.36							0613	1214	6:13	12:14	21.0	12.0	95	none	0.00	0.00	0.32	2.12	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89891	-73.56763	6/20/2018	5:21	0521	0.50	23.00	24.70	83.80	6.84	6.84	25.22	2.84	22.81	24.90	87.20	7.14	5.52	25.65							0536	1157	5:36	11:57	30.0	18.0	20	none	0.02	0.01	0.02	0.02	1	Season average linear regression results applied to chlorophyll data.		
OCC-MNC-01	Mill Neck Creek	NY	40.89891	-73.56750	7/10/2018	5:31	0531	0.50	24.42	25.27	60.40	4.83	7.85	9.66	0.84	24.43	25.25	60.30	4.82	8.49	10.65							0923	0320	9:23	3:20	28.0	17.0	0	none	0.00	0.00	0.00	0.04	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89895	-73.56748	7/26/2018	5:44	0544															0.50	24.86	24.69	49.10	3.63	8.68	15.13	1124	0520	11:24	5:20	27.0	21.0	95	missing rain	1.20	1.99	2.04	2.90	1		
OCC-MNC-01	Mill Neck Creek	NY	40.89891	-73.56756	8/7/2018	5:56	0556	0.50	27.17	25.93	85.70	6.04	6.03	22.72	1.94	26.96	25.97	86.90	6.20	6.08	22.26							0800	0156	8:00	1:56	32.0	24.0	0	none	0.00	0.00	0.72	0.73	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89893	-73.56761	8/21/2018	6:09	0609	0.50	23.80	24.90	64.10	5.09	4.89	20.41	1.87	24.16	25.32	64.20	5.06	6.71	17.46							0838	0233	8:38	2:33	23.0	19.0	35	none	0.00	0.00	0.71	0.72	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89891	-73.56763	9/6/2018	6:25	0625	0.50	27.20	26.59	78.60	6.07	7.88	12.08	1.93	26.98	26.73	80.20	6.21	9.34	11.33							0847	0241	8:47	2:41	30.0	23.0	50	none	0.00	0.00	0.00	0.00	1	Season average linear regression results applied to chlorophyll data.		
OCC-MNC-01	Mill Neck Creek	NY	40.89888	-73.56759	10/5/2018	6:54	0654	0.50	21.36	25.45	95.10	9.23	4.48	17.64	2.76	21.39	25.46	95.80	9.30	4.44	16.46							0835	0225	8:35	2:25	23.0	15.0	50	none	0.15	0.03	0.79	0.79	1			
OCC-MNC-01	Mill Neck Creek	NY	40.89894	-73.56757	10/19/2018	7:09	0709	0.50	14.03	25.16	96.10	9.51	1.98	4.39	1.69	14.09	25.17	94.20	9.33	2.14	5.90							0808	0200	8:08	2:00	10.0	2.0	20	none	0.00	0.00	0.03	0.24	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90146	-73.55809	5/9/2018	5:51	0551	0.50	16.20	24.85	120.20	10.38	4.63	20.51	3.14	15.74	24.95	121.70	10.54	5.83	24.21							0700	1258	7:00	12:58	19.0	8.0	0	none	0.00	0.00	0.00	0.00	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90137	-73.55803	5/23/2018	5:41	0541	0.50	16.00	24.58	79.10	7.35	6.27	11.35	3.40	15.93	24.61	78.50	7.31	6.12	9.37							0701	1255	7:01	12:55	19.0	14.0	95	missing rain	0.11	0.15	0.16	1.55	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90146	-73.55798	6/7/2018	5:31	0531	0.50	18.90	24.82	106.80	8.71	5.15	16.74	3.43	18.78	24.94	108.10	8.78	5.40	10.23							0613	1214	6:13	12:14	21.0	12.0	95	none	0.00	0.00	0.32	2.12	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90142	-73.55798	6/20/2018	5:34	0534	0.50	22.58	24.92	91.30	7.50	6.52	22.06	3.66	22.51	24.92	92.50	7.60	8.50	23.22							0536	1157	5:36	11:57	30.0	18.0	20	none	0.02	0.01	0.02	0.02	1	Season average linear regression results applied to chlorophyll data.		
OCC-MNC-02	Mill Neck Creek	NY	40.90144	-73.55804	7/10/2018	5:43	0543	0.50	24.31	25.35	83.90	6.72	6.07	13.61	1.59	24.27	25.38	83.40	6.68	6.67	13.32							0923	0320	9:23	3:20	28.0	17.0	0	none	0.00	0.00	0.00	0.04	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90154	-73.55791	7/26/2018	5:56	0556	0.50	24.74	24.83	74.00	5.47	7.42	41.44	1.39	24.60	25.60	69.30	5.62	7.18	28.38							1124	0520	11:24	5:20	27.0	21.0	95	missing rain	1.20	1.99	2.04	2.90	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90141	-73.55813	8/7/2018	6:06	0606	0.50	26.80	26.10	88.30	6.26	5.01	22.45	2.96	26.81	26.08	88.40	6.27	5.44	19.94							0800	0156	8:00	1:56	32.0	24.0	0	none	0.00	0.00	0.72	0.73	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90133	-73.55823	8/21/2018	6:20	0620	0.50	24.11	25.75	73.40	5.75	5.58	19.62	2.90	24.15	25.60	71.50	5.62	5.60	21.37							0838	0233	8:38	2:33	23.0	19.0	35	none	0.00	0.00	0.71	0.72	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90142	-73.55805	9/6/2018	6:38	0638	0.50	26.91	26.85	91.60	7.09	6.95	11.70	2.91	26.91	26.85	90.80	7.03	6.77	10.81							0847	0241	8:47	2:41	30.0	23.0	50	none	0.00	0.00	0.00	0.00	1	Season average linear regression results applied to chlorophyll data.		
OCC-MNC-02	Mill Neck Creek	NY	40.90135	-73.55823	10/5/2018	7:30	0730	0.50	21.40	25.63	100.80	9.77	4.20	16.28	3.61	21.41	25.63	101.00	9.79	4.48	16.36							0835	0225	8:35	2:25	23.0	15.0	50	none	0.15	0.03	0.79	0.79	1			
OCC-MNC-02	Mill Neck Creek	NY	40.90143	-73.55805	10/19/2018	7:20	0720	0.50	14.38	25.30	97.50	9.59	1.80	5.38	2.93	14.47	25.31	96.60	9.49	1.79	6.17							0808	0200	8:08</													

2018 Unified Water Study Long Island Sound Research Water Quality Data

Station ID	Embayment	State	File Latitude (dec. deg.)	File Longitude (dec. deg.)	Sample Date	Time on Station, 24 Hour Time (M:mm)	Time on Station, Midday Time (M:mm)	Surface Sample Depth (m)	Surface Temperature (°C)	Surface Salinity (ppt)	Surface Dissolved Oxygen (%)	Surface Dissolved Oxygen (mg/L)	Surface Turbidity (NTU)	Surface Chlorophyll-a (µg/L)	Bottom Sample Depth (m)	Bottom Temperature (°C)	Bottom Salinity (ppt)	Bottom Dissolved Oxygen (%)	Bottom Dissolved Oxygen (mg/L)	Bottom Turbidity (NTU)	Bottom Chlorophyll-a (µg/L)	Mid Sample Depth (m)	Mid Temperature (°C)	Mid Salinity (ppt)	Mid Dissolved Oxygen (%)	Mid Dissolved Oxygen (mg/L)	Mid Turbidity (NTU)	Mid Chlorophyll-a (µg/L)	Time of High Tide, Midday Time (M:mm)	Time of Low Tide, Midday Time (M:mm)	Time of High Tide, 24 Hour Time (M:mm)	Time of Low Tide, 24 Hour Time (M:mm)	High Air Temperature, preceding 24 hours (°C)	Low Air Temperature, preceding 24 hours (°C)	Morning Cloud Cover (%)	Morning Precipitation Status	Cumulative Precipitation for previous 7 days (inches)	Cumulative Precipitation for previous 7 days (post sample date) (inches)	Cumulative Precipitation for 4 days (inches)	Cumulative Precipitation for 4 days (post sample date) (inches)	Cumulative Precipitation for 7 days (inches)	Cumulative Precipitation for 7 days (post sample date) (inches)	Morning Wind at Embayment (Beaufort Scale)	Notes
POR-O-08	Port Jefferson Harbor	NY	40.95576	-73.08276	6/16/2018	6:38	0638	0.50	17.00	25.85	102.60	8.51	1.81	5.93	8.60	16.87	25.97	102.90	8.53	1.99	5.01							0140	0810	1:40	8:10	23.3	15.5	90	none	0.00	0.02	0.00	0.02	0.02	0.02	1		
POR-O-08	Port Jefferson Harbor	NY	40.95637	-73.08307	6/29/2018	6:46	0646	0.50	18.37	26.05	91.30	7.37		4.59	8.10	17.83	26.33	93.00	7.49									1230	0657	12:30	6:57	25.5	20.0	0	none	0.88	0.88	0.88	0.88	0.88	1	Season average linear regression results applied to chlorophyll data. Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-08	Port Jefferson Harbor	NY	40.95637	-73.08307	7/13/2018	7:30	0730	0.50	21.87	26.53	93.60	7.04	2.14	3.00	9.80	20.93	92.40	7.10	2.96	3.49								1200	0605	12:00	6:05	28.3	17.7	0.05	none	0.00	0.00	0.00	0.00	0.00	1	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-08	Port Jefferson Harbor	NY	40.95643	-73.08298	7/27/2018	7:18	0718	0.50	22.09	27.10	87.80	6.58	1.15	5.19	8.10	21.68	27.29	84.20	6.33	4.27	3.82							1158	0600	11:58	6:00	29.4	21.6	0	none	0.27	1.44	0.10	0.30	1.47	1	Season average linear regression results applied to chlorophyll data.		
POR-O-08	Port Jefferson Harbor	NY	40.95568	-73.08274	8/10/2018	7:19	0719	0.50	25.19	26.95	89.40	6.37	1.61	8.86	8.60	25.02	27.27	89.50	6.36	2.97	4.88							1055	0457	10:55	4:57	31.0	21.0	0	none	0.09	2.41	0.09	1.74	2.32	1			
POR-O-08	Port Jefferson Harbor	NY	40.95598	-73.08347	8/24/2018	7:14	0714	0.50	23.35	27.04	103.50	7.62	1.22	3.33	9.20	23.55	27.41	106.40	7.76	2.20	5.70							1025	0416	10:25	4:16	28.3	18.3	0	none	0.19	1.19	0.00	0.19	1.17	2	Season average linear regression results applied to chlorophyll data.		
POR-O-08	Port Jefferson Harbor	NY	40.95574	-73.08288	9/7/2018	7:45	0745	0.50	25.80	27.40	94.00	6.66	1.50	5.31	11.20	25.21	27.48	94.10	6.67	1.90	3.43	6.00	25.25	27.48	93.00	6.59	1.50	4.13	0947	0344	9:47	3:44	32.7	21.6	100	none	0.31	0.31	0.32	0.32	0.32	3	Season average linear regression results applied to chlorophyll data.	
POR-O-08	Port Jefferson Harbor	NY	40.95637	-73.08307	9/21/2018	8:12	0812	0.50	22.71	27.16	96.30	7.21	<1	6.43	10.30	22.78	27.60	96.20	7.08	1.18	2.79							0936	0329	9:36	3:29	22.2	167.6	75	none	0.00	0.66	0.00	0.66	0.66	2	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data. Turbidity (values) below detection limit.		
POR-O-08	Port Jefferson Harbor	NY	40.95599	-73.08347	10/8/2018	7:42	0742	0.50	21.51	27.01	98.00	7.47	<1	3.29	9.70	21.34	27.07	98.20	7.47	3.79	3.07							1112	0507	11:12	5:07	25.0	16.6	100	mixing rain	0.00	0.93	0.00	0.00	0.93	2	Season average linear regression results applied to chlorophyll data. Turbidity (values) below detection limit.		
POR-O-08	Port Jefferson Harbor	NY	40.95637	-73.08307	10/23/2018	8:21	0821	0.50	15.20	26.60	93.10	8.02	<1	1.87	9.70	15.56	26.85	92.60	7.89	<1	3.28							1100	0450	11:00	4:50	11.0	5.5	95	none	0.05	0.13	0.01	0.14	0.14	2	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data. Turbidity (values) below detection limit.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	5/13/2018	6:59	0659	0.50	11.61	26.03	105.40	9.76	15.23	4.23	7.60	11.22	26.11	105.10	9.80	15.38	4.36							1028	0422	10:28	4:22	17.0	11.0	100	none	0.12	0.16	0.16	0.20	0.20	3	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	5/31/2018	7:27	0727	0.50	15.65	25.64	100.30	8.57	1.57	4.38	7.40	14.00	26.05	101.50	8.97	1.19	1.47							0057	0725	0:57	7:25	25.0	13.8	60	none	0.00	0.70	0.00	0.00	0.70	2			
POR-O-09	Port Jefferson Harbor	NY	40.96080	-73.08604	6/16/2018	6:44	0644	0.50	16.95	25.90	100.40	8.31	1.88	3.68	8.10	16.76	26.03	99.80	8.30	2.70	3.52							0140	0810	1:40	8:10	23.3	15.5	90	none	0.00	0.02	0.00	0.02	0.02	1			
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	6/29/2018	6:52	0652	0.50	19.09	25.78	90.90	7.29		3.37	9.40	17.73	26.38	89.50	7.26		5.40							1230	0657	12:30	6:57	25.5	20.0	0	none	0.88	0.88	0.88	0.88	0.88	1	Season average linear regression results applied to chlorophyll data. Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	7/13/2018	7:38	0738	0.50	22.30	26.50	94.00	7.10	2.27	3.73	7.30	20.76	26.90	90.70	6.97	4.76	2.02							1200	0605	12:00	6:05	28.3	17.7	0.05	none	0.00	0.05	0.00	0.00	0.00	1	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	7/27/2018	7:24	0724	0.50	22.61	26.98	87.00	6.47	1.58	5.18	7.90	21.59	27.28	82.50	6.18	3.64	2.91							1158	0600	11:58	6:00	29.4	21.6	0	none	0.27	1.44	0.10	0.30	1.47	1	Season average linear regression results applied to chlorophyll data.		
POR-O-09	Port Jefferson Harbor	NY	40.96089	-73.08646	8/10/2018	7:25	0725	0.50	24.88	27.18	89.00	6.35	1.63	3.80	8.10	24.88	27.31	86.40	6.16	1.56	4.93							1055	0457	10:55	4:57	31.0	21.0	0	none	0.09	2.41	0.09	1.74	2.32	1	Season average linear regression results applied to chlorophyll data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	8/24/2018	7:21	0721	0.50	23.51	27.50	104.80	7.68	1.27	6.26	8.10	23.56	27.41	106.90	7.79	1.66	12.68							1025	0416	10:25	4:16	28.3	18.3	0	none	0.19	1.19	0.00	0.19	1.17	2	Season average linear regression results applied to chlorophyll data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	9/7/2018	7:53	0753	0.50	25.45	27.99	91.90	6.51	1.25	11.17	8.60	25.22	27.50	89.80	6.32	1.55	2.25							0947	0344	9:47	3:44	32.7	21.6	100	none	0.31	0.31	0.32	0.32	0.32	3	Season average linear regression results applied to chlorophyll data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	9/21/2018	8:20	0820	0.50	22.79	27.53	97.20	7.20	<1	3.23	11.10	22.78	27.63	97.40	7.20	1.02	4.17	5.80	22.78	27.59	96.30	7.12	1.10	5.08	0936	0329	9:36	3:29	22.2	167.6	75	none	0.00	0.66	0.00	0.66	0.66	2	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data. Turbidity (value) below detection limit.	
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	10/8/2018	7:47	0747	0.50	21.10	27.03	98.50	7.54	1.79	3.98	8.70	21.12	27.08	98.40	7.53	4.07	3.72							1112	0507	11:12	5:07	25.0	16.6	100	mixing rain	0.00	0.93	0.00	0.00	0.93	2	Season average linear regression results applied to chlorophyll data. Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data.		
POR-O-09	Port Jefferson Harbor	NY	40.96139	-73.08649	10/23/2018	8:26	0826	0.50	15.62	26.82	93.20	7.92	<1	2.28	8.70	15.65	26.84	92.80	7.89	<1	2.58							1100	0450	11:00	4:50	11.0	5.5	95	none	0.05	0.13	0.01	0.14	0.14	2	Coordinates recorded incorrectly in field. Monitoring group confirms location was correct. QAPP coordinates are listed with these data. Turbidity (values) below detection limit.		
POR-O-10	Port Jefferson Harbor	NY	40.96734	-73.08785	5/13/2018	7:05	0705	0.50	11.75	25.97	106.10	9.79	15.08	5.04	9.40	11.57	26.11	106.90	9.89	15.89	6.14	6.50	14.21	26.00				1028	0422	10:28	4:22	17.0	11.0	100	none	0.12	0.16	0.16	0.20	0.20	3			
POR-O-10	Port Jefferson Harbor	NY	40.96800	-73.08729	5/31/2018	7:35	0735	0.50	15.20	25.84	104.40	8.96	1.19	4.09	13.20	14.10	26.05	102.10	8.96	1.08	4.05							0057	0725	0:57	7:25	25.0	13.8	60	none	0.00	0.70	0.00	0.00	0.70	2			
POR-O-10	Port Jefferson Harbor	NY	40.96751	-73.08693	6/16/2018	6:53	0653	0.50	16.91	25.85	101.30	8.45	1.89	3.61	6.00	16.80	26.04	101.70	8.44	3.15	4.26							0140	0810	1:40	8:10	23.3	15.5	90	none	0.00	0.02	0.00	0.02	0.02	1			
POR-O-10	Port Jefferson Harbor	NY	40.96800	-73.08729	6/29/2018	7:00	0700	0.50	18.70	25.96	93.50	7.49		3.75	6.50	18.18	26.23	92.70	7.47		6.33							1230	0657	12:30	6:57	25.5	20.0	0	none	0.88	0.88	0.88	0.88	0.88	1	Season average linear regression results applied to chlorophyll data.		
POR-O-10	Port Jefferson Harbor	NY	40.96780	-73.08721	7/13/2018	7:41	0741	0.50	21.08	26.72	95.70	7.33	1.65	1.79	7.70	20.88	26.82	97.80	7.54	1.39	2.27							1200	0605	12:00	6:05	28.3	17.7	0.05	none	0.00	0.05	0.00	0.00	0.00	1			
POR-O-10	Port Jefferson Harbor	NY	40.96800																																									

