

## **Appendix B. Water quality parameters**

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 6/26/2017  
**Sampler's Last Names:** Purcell and Green and Deonarine

Station ID	Latitude	Longitude	Water depth (m)	Collection Time (h)	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.48945	73.42396	1.5	0900	N-00-0.0	22	21.17	8.2	11.52	382.22	35.2	24.33	0.75
MB-2	40.49591	73.43616	5.5	0910	N-00-0.0	22	20.17	7.99	9.7	39325	35.71	25.08	1.75
MB-3	40.49965	73.42971	2	0920	N-00-0.0	22	20.5	8.03	9.25	38854	35.78	24.89	1
MB-4	40.99790	73.43046	3	0930	N-00-0.0	21.03	20.63	7.95	8.12	38981	35.72	24.86	1.25
QA	40.49790	73.43096	3	0955	N-00-0.0	22	20.6	8	9.04	38947	35.75	24.83	1.2
MB-5	40.50078	73.42132	0.5	0940	N-00-0.0	21.9	20.9	7.6		37121	34.21	23.56	0.5 (bottom)
MB-6	40.50250	73.42890	1	0950	N-00-0.0	22	20.3	7.8	8.18	39026	35.56	24.88	1.0 (bottom)
MB-7	40.48091	73.47784	2	1000	N-00-0.0	22	21.88	8.2	12.57	37265	35.05	23.66	0.25
MB-4 (bottom)	40.49765	73.42944	3.5	1007	N-00-0.0	22	19.26	7.53	6.01	39566	35.22	25.29	1.25

**Current Weather**

Conditions: Clear

Rain in past 24 hours: No

Odor: No

Animals: No

Tide at time of sampling: Incoming

Other observations:

Comments: Extremely low tide. Water color at most sample sites was rust color. QA(2) -- samples taken close to bottom.

Sarah notes: The times do not seem right. We sampled in this order: Baxter Estates, Manorhaven, Manorhaven Beach, Nun-4 (MB-4), Kennelworth, Leeds Pond, Great Neck. At MB-4 (NUN-4), we did a QA and then a bottom sampling (labeled as QA-2 on the sampling sheet).

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 7/3/2017  
**Sampler's Last Names:** Purcell and Green

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°F)	Water Temp (°F)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.48954	73.42335	1.75	1007	0.0	80.0	73.9	7.92	7.66	40280	38.15	25.8	1
MB-2	40.49607	73.43625	6.5	0955	0.0	80.0	73	7.95	7.82	40588	37.41	26	1.75
MB-3	40.50016	73.42813	4	0933	0.0	80.0	79	8.13	9.12	40306	38.28	25.76	1
MB-4	40.49191	73.343068	4.75	0950	0.0	80.0	74.8	8.13	9.43	40434	38.67	25.88	1.5
QA	MB7	MB7	2.75	1017	0.0	80.0	71.1	7.35	7.5	39090	36.39	24.93	0.75
MB-5	40.5008	73.42354	2	0920	0.0	80.0	19.5	8.21	9.25	38847	38.56	25.33	1
MB-6	40.50286	73.42898	1.25	0939	0.0	80.0	74.3	8.1	8.09	40060	38.7	25.6	1
MB-7	40.48097	73.42789	2.75	1003	0.0	80.0	72.9	7.32	4	39325	36.51	25.13	0.75

Current Weather

Conditions:

Rain in past 24 hours:

Odor:

Animals:

Tide at time of

Other observations: unremarkable

Comments:

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 7/10/2017  
**Sampler's Last Names:** Purcell and Green

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1													
MB-2													
MB-3													
MB-4													
QA													
MB-5	40.48987	73.42346	1.25	0900	0.0	23		8.11	7.86	39703	38.29	25.39	0.75
MB-6													
MB-7													

**Current Weather**

Conditions: Clear

Rain in past 24 hours: No

Odor:

Animals:

Tide at time of

Other observations:

Comments: Screen on sampler broke, not able to read anything. Sampling discontinued after MB-5.

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 7/17/2017  
**Sampler's Last Names:** Purcell & Green

Station ID	Latitude	Longitude	Water depth (ft)	Collection Time	Wind/Wave height	Air Temp (°F)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.48954	73.42312	3.9	0916		76	23.6	7.96	err	err	38673	err	1
MB-2	40.49587	73.43638	1.5	0937		76	24.2	8.6	err	err	38126	err	1.75
MB-3	40.4997	73.43041	8.8	0949		76	24.3	8.17	err	err	38845	err	1
MB-4	40.49771	73.43147	1.4	0944		76	24	8.76	err	err	38906	err	1.5
QA	40.99771	73.43127	1.4	0955		76	24	8.76	err	err	38906	err	1.5
MB-5	40.50072	73.42081	4.7	0859		76	24.1	8.77	err	err	38369	err	1.5
MB-6	40.60263	73.42906	4.2	0947		76	23.8	8.66	err	err	38646	err	0.75
MB-7	40.4812	73.42799	3.8	0929		76	23.5	7.69	err	err	38493	err	1.25

Current Weather  
 Conditions:  
 Rain in past 24 hours:  
 Odor:  
 Animals:  
 Tide at time of  
 Other observations:  
 Comments:

From Deonarine: Machine was calibrated incorrectly resulting in erroneous readings (and probably untrustworthy conductivity readings). Mistake was fixed the next week.

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 7/24/2017  
**Sampler's Last Names:** Green and Deonarine

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°F)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.490201	73.423566	2	1000	1-2	64	23	7.29	3.9	39715	38.23	25.27	1.25
MB-2	40.49159	73.43517	4	0940	1-2	64	22.88	7.44	5.5	40086	38.35	25.61	1.75
MB-3	40.500287	73.428643	3	0923	1-2	64	22.62	7.4	4.4	40212	38.29	25.73	1
MB-4	47.9858	73.481227	4	0935	1-2	64	22.33	7.42	5.79	40294	38.29	25.77	1.75
QA	40.481884	73.728087	1.5	0955	1-2	64	23.45	7.12	2.82	37800	36.71	23.95	0.75
MB-5	40.501253	73.421007	1	0915	1-2	64	23.04	7.28	4.2	39406	38	25.19	1
MB-6	40.50285	73.428681	1.5	0930	1-2	64	22.72	7.37	4.6	39655	37.93	25.33	1.25
MB-7	40.481498	73.429164	1.25	0950	1-2	64	23.47	7.15	3.6	37330	36.3	23.76	0.5

**Current Weather**

Conditions: Raining  
 Rain in past 24 hours: Yes  
 Odor: no  
 Animals: no  
 Tide at time of: Low, but incoming  
 Other observations:  
 Comments: QA station was MB-6

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 7/31/2017  
**Sampler's Last Names:** Purcell & Sais

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.48979	73.4233	1.37	0945	N-05 calm	23	24.2	7.62	5.53	40419	38.64	25.85	1.5
MB-2	40.49538	73.4377	1.7	1018	N-05 calm	23	22.2	7.68	6.89	40534	38.39	25.95	1
MB-3	40.49967	73.42942	2.5	1031	N-05 calm	23	22.7	7.94	9.29	40317	35.58	25.78	1.5
MB-4	40.49771	73.43127	3.3	1026	N-05 calm	23	22.9	8.11	5.49	40309	38.58	25.79	1
QA	40.48979	73.4233	1.37	0950	N-05 calm	23	22.6	7.57	8.81	40431	38.59	25.87	1.5
MB-5	40.509	73.40876	1.37	0920	N-05 calm	23	24.2	8.08	11.56	39495	37.86	25.21	2
MB-6	40.50272	73.42	1.21	1040	N-05 calm	23	23.1	8.28	4.7	39987	38.59	25.53	1
MB-7	40.48102	73.428096	0.9	1005	N-05 calm	23	22.9	7.36	8.15	38965	37.7	25.19	1.5

Current Weather  
 Conditions:  
 Rain in past 24 hours:  
 Odor:  
 Animals:  
 Tide at time of  
 Other observations:  
 Comments:

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 8/7/2017  
**Sampler's Last Names:** Green & Purcell

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.494277	73.425177	0.75	0833	N-00	21	23.23	7.53	4.9	39.93	38035	25.96	0.75
MB-2	40.494277	73.425177	3.25	0905	N-00	21	22.74	7.56	7.78	38.8	40570	25.96	1.5
MB-3	40.500048	73.429552	2.5	0916	N-00	21	22.66	7.64	6.1	38.72	40530	25.94	1
MB-4	40.494277	73.425177	2.75	0912	N-00	21	22.66	7.61	5.92	38.74	40553	25.95	1.25
QA	40.494277	73.425177	1.75	0907	N-00	21	22.73	7.53	6.47	39.8	40544	25.99	1.5
MB-5	40.497282	73.921425	1	0819	N-00	21	23.19	7.57	5.12	38.65	40039	25.59	0.75
MB-6	40.502663	73.429551	1	0921	N-00	21	22.61	7.77	6.46	38.42	40259	25.75	0.75
MB-7	40.494277	73.425177	0.75	0847	N-00	21	23.43	7.38	4.06	38.56	39740	25.34	0.5

**Current Weather**

Conditions: clear

Rain in past 24 hours: no

Odor: no

Animals: no

Tide at time of outgoing

Other observations:

Comments: QA station was MB2  
 Latitude & Longitude not working properly same numbers on several different locations



**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 8/14/2017  
**Sampler's Last Names:** Purcell, Green (Deonarine observing)

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.489875	73.424234	1.75	0940	N06/0.0	23	23.8	7.37	3.53	39678	38.77	25.31	0.5
MB-2	40.495906	73.435766	5.5	1015	N06/0.0	23	23.38	7.64	4.83	40116	38.88	25.63	1.5
MB-3	40.499761	73.429978	2.75	1030	N06/0.0	23	23.69	7.88	6.18	39785	38.79	25.39	1
MB-4	40.497542	73.43124	4.75	1022	N06/0.0	23	23.8	7.99	6.22	39623	38.72	25.28	1
MB-5	40.500955	73.21274	1.5	0919	N06/0.0	23	23.74	8.17	5.99	39052	38.22	24.89	1
MB-6	40.502402	73.428884	1.5	1038	N06/0.0	23	23.57	7.95	6.08	39509	38.43	25.2	1
MB-7	40.481697	73.427881	0.75	0957	N06/0.0	23	24.43	7.15	5.04	39213	38.69	24.98	0.25
QA	40.500455	73.421274	1.5	0925	N06/0.0	23	23.91	8.07	6.21	39028	38.21	24.87	1

**Current Weather**

Conditions: Partly cloudy

Rain in past 24 hours: Yes

Odor:

Animals:

Tide at time of

Other observations: Brown water again

Comments: Conductivity calibration was significantly off, tried cleaning and other techniques, but nothing worked.

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 8/21/2017  
**Sampler's Last Names:** Purcell & Green

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.489741	73.423742	1.5	0958			24.48	7.65		39121	38.74	24.91	1.0
MB-2	40.495772	73.436043	3.5	0940			23.84	7.48		39986	39.1	25.53	2.0
MB-3	40.499448	73.429464	3.0	0925			24.25	7.58		39256	39.09	25.29	1.75
MB-4	40.497815	73.430552	3.0	0930			24.11	7.58		39314	39.14	25.41	1.25
MB-5	40.500553	73.420940	2.0	0900			24.3	7.58		38903	38.41	24.76	1.0
MB-6	40.502551	73.429090	1.75	0915			24.03	7.63		39533	38.8	25.21	1.0
MB-7	40.481039	73.427981	1.0	0948			24.88	7.49		37687	37.6	23.89	0.5
QA	40.502608	73.429083	1.5	0920			24.16	7.66		39461	38.83	25.16	1.0

Current Weather

Conditions:

Rain in past 24 hours:

Odor:

Animals:

Tide at time of

Other observations:

Comments: QA done at MB-6

**Appendix B**  
**2017 Water Quality Parameters**

**Collection Date:** 8/28/2017  
**Sampler's Last Names:** Green & Purcell

Station ID	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
MB-1	40.48912	73.424965	2.5	1043	NE-06	18	23.33	7.36	3.08	41019	39.71	26.28	0.5
MB-2	40.496173	73.436162	7	1012	NE-06	18	22.98	7.65	5.65	40954	39.37	26.24	1.75
MB-3	40.500324	73.429903	3	0958	NE-06	18	22.88	7.74	5.66	40805	39.15	26.13	0.5
MB-4	40.497849	73.430976	4	1004	NE-06	18	22.88	7.7	5.89	41063	39.4	26.31	1.75
QA	40.497714	73.431135	4	1005	NE-06	18	23.06	7.77	5.84	40918	39.41	26.21	1.75
MB-5	40.500404	73.421444	2	0937	NE-06	18	23.21	7.46	3.04	40602	39.2	25.98	1.25
MB-6	40.502394	73.429062	2.1	0953	NE-06	18	22.48	7.58	4.75	40639	38.68	26.02	1
MB-7	40.481462	73.428041	0.75	1031	NE-06	18	23.93	7.27	3.56	38101	37.32	24.2	0.25

**Current Weather**

Conditions: clear  
 Rain in past 24 hours: no  
 Odor: no  
 Animals: no  
 Tide at time of: incoming  
 Other observations:  
 Comments: QA station was MB4

**Appendix B**  
**2018 Secchi Disk Depth Data**

Depth (m)														
Station ID	MB-1		MB-2		MB-3		MB-4		MB-5		MB-6		MB-7	
Date	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)	Water depth (m)	Secchi disk depth (m)
6/4/2018														
6/11/2018	2	1	5	1.75	2	1	6	2	1.5	1	1.5	0.75	1.5	0.75
6/18/2018	1	1	3	1.75	2.5	1	2.75	2	1	1	0.75	0.75	0.75	0.75
6/25/2018	2	1.5	3	1.25	2.5	1	2.75	2	1	1	0.75	0.75	0.75	1.5
7/2/2018	1	0.75	4	1.25	2	1	3.5	2	0.75	0.5	1	0.75	0.75	0.5
7/9/2018	2.5	1.75	5.75	2.5	4	2.25	3	2	2	1.25	3	2.5	2	0.75
7/16/2018	1	0.5	3	1.25	2	1	2.75	1	1	0.5	1	0.5	1	0.5
7/23/2018	2	1	7	1.5	4	1	6	1.5	2	1	2	1.25	2	1.5
7/30/2018	1	0.5	3.5	1.5	2.25	1.5	3.75	1.5	0.75	0.5	1	0.75	0.75	0.5
8/6/2018	2	1	5.1	1.5	4.5	1.5	4.75	1.5	3.25	1	2.75	1	1.75	1
8/13/2018	1.25	1	3	1.25	2	1.25	3	1	1.5	1	1.5	1	1	0.75
8/20/2018	2.75	1.5	5	1.5	4	1.5	5.5	1.5	2	1.5	2.75	1.5	2	1.5
8/27/2018	1	0.75	4	1.5	2.75	1.5	3.5	1.5	0.75	0.5	0.75	0.5	1	0.5

Mean:            1.625    1.020833   4.2791667   1.542    2.875    1.29167   3.94   1.625   1.4583   0.895833   1.5625    1    1.2708    0.875

**Appendix B**  
**2019 Water Quality Parameters**

Site Name: MB-1 Leeds Pond

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:31am	40.81588°	-73.70582°		9:31am	NE-6/0	17°	17.1°	7.66	6.53	36869.2	31297.7	23.39	0.75 (bottom)
6/17/2019	9:54am	40.81573°	-70.70512°		9:55am	E-1/0	22°	19.7°	7.75	7.91	36087.2	32427.7	22.84	0.75
6/24/2019	9:05am	40.81568°	-70.70628°	0.7	8:30am	0/0	24°	21.7°	7.86	9.02	34636.7	32413.2	21.81	0.5
7/1/2019	10:01am	40.81551°	-73.70634°	2.4	10:05am	0/0	21°	22.6°	8.24	10.37	36587.0	34922.6	23.16	1.0
7/8/2019	9:08am	40.81636°	-73.70576°	1.5	9:07am	0/0	21°	20.6°	7.15	3.55	38632.2	35334.5	24.62	1.0
7/8/2019 QA	9:09am	40.81630°	-73.70576°	1.5	9:07am	0/0	21°	20.4°	7.20	3.50	38690.2	35322.1	24.66	1.0
7/15/2019	9:37am	40.81580°	-73.70525°	1.5	9:36am	N-05/0	22°	24.0°	7.85	7.94	38633.9	37908.7	24.57	1.0
7/22/2019	9:28am	40.81576°	-73.70651°	0.6	9:26am	N-1/0	27°	25.3°	7.83	7.47	38431.2	38691.9	24.41	0.6 (bottom)
7/29/2019	9:43am	40.81557°	-73.70566°	2.4	9:50am	0/0	27°	24.4°	7.24	3.97	38519.9	38121.0	24.49	1.5
8/5/2019	9:38am	40.81600°	-73.70728°	1.2	9:35am	N-5/0	23°	23.7°	7.49	5.15	38945.9	38004.1	24.80	0.5
8/12/2019	9:41am	40.81605°	-73.70497°	7.1	9:42am	N-3/0	26°	24.4°	7.89	7.54	38984.5	38520.2	24.82	1.0
8/19/2019	9:45am	40.81606°	-73.70647°	0.9	9:44am	0/0	27°	24.5°	7.31	4.57	38387.8	38025.0	24.39	0.75
8/26/2019	9:21am	40.81586°	-73.70535°	1.8	9:20am	N-10/0	15°	23.4°	7.37	4.01	39609.8	38391.6	25.28	1.0

## Appendix B

### 2019 Water Quality Parameters

Site Name: MB-2 Kennelworth

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:37am	40.82655°	-73.72890°		9:39am	NE-6/0	17°	17.3°	8.11	9.32	36729.2	31350.4	23.29	1.3
6/17/2019	9:33am	40.82639°	-73.72859°		9:35am	E-1/0	22°	19.0°	7.78	7.76	36444.5	32282.8	23.09	0.75
6/17/2019 QA	9:34am	40.82632°	-73.72867°		8:45am	E-1/0	22°	19.3°	7.83	7.94	36273.8	32299.9	22.97	0.75
6/24/2019	9:11am	40.82644°	-73.72850°	3.8	8:45am	0/0	24°	19.7°	7.64	7.26	36675.6	32972.3	23.25	1.25
7/1/2019	9:35am	40.82632°	-73.72839°	7.6	9:30am	0/0	21°	20.5°	7.94	8.41	37390.6	34201.3	23.75	1.0
7/8/2019	9:40am	40.82639°	-73.72842°	5.5	9:40am	0/0	21°	20.4°	7.70	7.09	38618.0	35249.6	24.61	0.75
7/15/2019	9:24am	40.82648°	-73.72833°	7.0	9:20am	N-05/0	22°	21.7°	7.63	5.97	39118.8	36774.0	24.95	1.25
7/22/2019	9:40am	40.82639°	-73.72851°	5.4	9:36am	N-1/0	27°	24.4°	7.95	9.17	38857.9	38452.7	24.73	0.75
7/29/2019	9:16am	40.82675°	-73.72791°	7.6	9:30am	0/0	27°	22.9°	7.52	6.45	39081.9	37524.2	24.91	1.5
8/5/2019	9:25am	40.82658°	-73.72855°	5.5	9:25am	N-5/0	23°	23.2°	7.75	7.40	39437.3	38111.6	25.16	0.75
8/12/2019	9:28am	40.82660°	-73.72809°	6.7	9:30am	N-3/0	26°	22.7°	7.40	4.32	40260.1	38480.8	25.75	1.3
8/19/2019	9:31am	40.82642°	-73.72845°	3.7	9:31am	0/0	27°	24.2°	7.69	6.67	40458.3	39867.2	25.86	0.9
8/26/2019	9:13am	40.82631°	-73.72842°	7.3	9:12am	N-10/0	15°	23.0°	7.56	5.64	40087.8	38542.2	25.62	1.5

## Appendix B

### 2019 Water Quality Parameters

Site Name: MB-3 Manorhaven

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:48am	40.83253°	-73.71585°		9:50am	NE-6/0	17°	17.1°	7.89	7.92	37029.1	31429.1	23.50	1.3
6/17/2019	9:23am	40.83234°	-73.71547°		9:25am	E-1/0	22°	18.5°	7.71	7.47	36828.0	32258.3	23.36	0.75
6/24/2019	9:19am	40.83246°	-73.71584°	2.6	8:55am	0/0	24°	21.4°	8.08	11.03	35774.8	33350.3	22.61	1.0
7/1/2019	9:13am	40.83237°	-73.71542°	2.4	9:15am	0/0	21°	19.5°	7.65	6.88	37821.7	33882.1	24.06	0.75
7/8/2019	9:51am	40.83219°	-73.71607°	2.7	9:50am	0/0	21°	20.8°	7.75	7.31	38721.9	35613.2	24.68	1.25
7/15/2019	9:02am	40.83230°	-73.71538°	3.7	9:02am	N-05/0	22°	21.7°	7.71	6.78	39204.8	36775.4	25.01	1.0
7/22/2019	9:52am	40.83232°	-73.71599°	2.7	9:52am	N-1/0	27°	24.5°	7.86	8.08	38685.8	38307.2	24.60	1.0
7/29/2019	9:04am	40.83253°	-73.71581°	4.0	9:10am	0/0	27°	24.7°	7.97	9.99	38471.1	38213.9	24.45	0.6
7/29/2019 QA	9:05am	40.80175°	-73.71577°	4.0	9:10am	0/0	27°	24.4°	7.89	9.09	38468.3	38043.2	24.45	0.6
8/5/2019	9:02am	40.83252°	-73.71614°	2.4	8:59am	N-5/0	23°	23.1°	7.60	6.31	39561.1	38132.9	25.24	0.9
8/5/2019 QA	9:14am	40.83242°	-73.71587°	2.4	8:59am	N-5/0	23°	23.1°	7.60	6.31	39592.7	38161.2	25.27	0.5
8/12/2019	9:18am	40.83264°	-73.71559°	3.0	9:17am	N-3/0	26°	23.2°	7.65	6.35	40035.1	38628.4	25.58	1.3
8/19/2019	9:10am	40.83227°	-73.71569°	2.1	9:08am	0/0	27°	24.9°	7.95	9.48	40057.3	40028.4	25.56	0.75
8/26/2019	9:03am	40.83239°	-73.71599°	4.3	9:02am	N-10/0	15°	23.1°	7.49	5.27	40093.3	38601.5	25.62	1.5

## Appendix B

### 2019 Water Quality Parameters

Site Name: MB-4 NUN-4

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:43am	40.82928°	-73.71810°		9:45am	NE-6/0	17°	17.4°	7.95	8.40	36839.8	31480.8	23.37	1.3
6/17/2019	9:29am	40.82933°	-73.71775°		9:30am	E-1/0	22°	18.7°	7.81	7.73	36760.8	32312.1	23.31	1.0
6/24/2019	9:15am	40.82945°	-73.71805°	3.4	9:10am	0/0	24°	21.7°	8.28	12.88	35338.2	33104.5	22.30	1.0
7/1/2019	9:27am	40.82947°	-73.71769°	4.6	9:40am	0/0	21°	19.5°	7.90	8.53	37822.5	33821.0	24.06	1.0
7/1/2019 QA	9:28am	40.82935°	-73.71767°	4.6	9:40am	0/0	21°	19.5°	7.92	8.61	37779.4	33791.7	24.03	1.0
7/8/2019	9:47am	40.82937°	-73.71877°	3.7	9:45am	0/0	21°	20.9°	7.77	7.87	38602.1	35610.3	24.59	1.25
7/15/2019	9:15am	40.82971°	-73.71744°	4.6	9:15am	N-05/0	22°	22.4°	7.93	8.33	39069.2	37163.5	24.91	0.75
7/22/2019	9:48am	40.82943°	-73.71830°	3.7	9:46am	N-01/0	27°	24.7°	7.92	8.70	38362.3	38151.8	24.37	0.75
7/29/2019	9:09am	40.82986°	-73.71745°	4.9	9:25am	0/0	27°	23.8°	7.95	10.15	38720.7	37806.6	24.64	0.6
8/5/2019	9:18am	40.82960°	-73.71818°	3.4	9:15am	N-5/0	23°	23.2°	7.61	6.39	39397.4	38041.6	25.13	1.0
8/12/2019	9:21am	40.82941°	-73.71775°	4.6	9:22am	N-3/0	26°	23.2°	7.72	6.79	39999.3	38664.3	25.55	1.3
8/19/2019	9:24am	40.82944°	-73.71793°	3.4	9:23am	0/0	27°	24.4°	7.79	7.74	40004.1	39587.7	25.54	0.75
8/19/2019 QA	9:25am	40.82943°	-73.71788°	3.4	9:23am	0/0	27°	24.6°	7.85	8.15	39960.4	39632.1	25.50	0.75
8/26/2019	9:06am	40.82936°	-73.71814°	5.5	9:06am	N-10/0	15°	23.0°	7.51	5.44	40213.4	38686.6	25.71	1.5



**Appendix B**  
**2019 Water Quality Parameters**

Site Name: MB-5 Baxter Beach

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:05am	40.83356°	-73.70242°		9:00am	NE-6/0	17°	17.8°	7.82	7.45	36840.9	31748.3	23.37	1.3
6/17/2019	9:00am	40.83468°	-73.70160°		9:30am	E-1/0	22°	19.4°	7.77	7.56	36347.5	32511.5	23.02	1.0
6/24/2019	9:40am	40.83406°	-73.70144°	0.8	9:25am	0/0	24°	21.6°	7.63	7.65	35279.0	32970.5	22.26	1.0 (bottom)
7/1/2019	8:59am	40.83392°	-73.70098°	0.9	9:00am	0/0	21°	21.0°	7.69	7.92	36827.2	34027.2	23.35	1.0
7/8/2019	8:54am	40.83386°	-73.70199°	1.2	8:55am	0/0	21°	21.8°	7.23	4.50	38150.0	35852.8	24.27	1.3 (bottom)
7/15/2019	8:50am	40.83424°	-73.70071°	0.9	8:55am	N-05/0	22°	23.0°	7.67	6.58	38542.5	37061.2	24.53	1.0
7/22/2019	8:55am	40.83368°	-73.70204°	1.2	9:56am	N-01/0	27°	24.6°	7.42	4.98	37895.6	37623.6	24.04	1.0
7/22/2019 QA	8:56am	40.83368°	-73.70210°	1.2	9:56am	N-01/0	27°	24.8°	7.48	4.94	38345.6	38217.7	24.36	1.0
7/29/2019	8:47am	40.83447°	-73.70042°	1.5	8:45am	0/0	27°	25.3°	7.28	3.93	37663.5	37900.2	23.87	1.5 (just above bottom)
8/5/2019	9:49am	40.83391°	-73.70222°	1.0	8:47am	N-5/0	23°	23.6°	7.45	5.06	39347.9	38310.4	25.09	1.0 (just above bottom)
8/12/2019	9:00am	40.83461°	-73.70033°	1.0	8:56am	N-3/0	26°	24.2°	7.98	8.30	38386.1	37812.9	24.40	1.0 (bottom)
8/19/2019	8:56am	40.83421°	-73.70161°	0.9	8:54am	0/0	27°	25.0°	7.59	5.68	39300.2	39303.2	25.03	0.75
8/26/2019	8:48am	40.83466°	-73.70060°	2.4	8:45am	N-10/0	15°	23.4°	7.27	3.03	39938.8	38728.9	25.51	1.5

## Appendix B

### 2019 Water Quality Parameters

Site Name: MB-6 Manorhaven Beach

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:55am	40.83724°	-73.71494°		9:57am	NE-6/0	17°	17.4°	7.87	7.40	36789.6	31430.8	23.33	1.3
6/10/2019 QA	9:56am	40.83740°	-73.71479°		9:57am	NE-6/0	17°	17.4°	7.82	7.41	36785.7	31429.1	23.34	1.3
6/17/2019	9:17am	40.83778°	-73.71485°		9:18am	E-1/0	22°	21.9°	8.29	13.31	35435.5	33322.5	23.18	0.75
6/24/2019	9:25am	40.83782°	-73.71490°	0.7	9:40am	0/0	24°	19.6°	7.84	8.51	36577.3	32778.4	22.38	0.75 (bottom)
6/24/2019 QA	9:26am	40.83794°	-73.71493°	1.0	9:40am	0/0	24°	21.7°	8.28	13.03	35460.1	33203.6	22.36	1.0
7/1/2019	9:19am	40.83759°	-73.71506°	1.2	9:20am	0/0	21°	20.3°	7.82	7.59	37469.2	34127.1	23.80	0.75
7/8/2019	9:57am	40.83749°	-73.71504°	1.2	9:55am	0/0	21°	20.8°	7.57	5.95	38668.4	35564.2	24.64	1.0
7/15/2019	9:07am	40.83771°	-73.71507°	2.7	9:05am	N-05/0	22°	22.3°	7.75	7.09	39074.2	37045.8	24.91	1.0
7/22/2019	9:57am	40.83754°	-73.71514°	0.9	9:56am	N-01/0	27°	24.8°	7.83	7.52	38275.3	38130.4	24.31	0.6
7/29/2019	8:59am	40.83780°	-73.71446°	2.4		0/0	27°	24.7°	7.91	8.89	38690.0	38476.4	24.60	1.0
8/5/2019	9:08am	40.83753°	-73.71509°	1.2	9:05am	N-5/0	23°	23.1°	7.50	5.25	39601.1	38178.6	25.27	0.5
8/12/2019	9:13am	40.83760°	-73.71503°	1.5	9:10am	N-1/0	26°	23.9°	7.91	8.29	39435.2	38646.0	25.14	1.0
8/19/2019	9:17am	40.83774°	-73.71510°	0.9	9:16am	0/0	27°	25.1°	7.88	8.15	40074.5	40125.3	25.57	0.75
8/26/2019	8:58am	40.83759°	-73.71490°	3.1	8:56am	N-10/1	15°	22.9°	7.54	5.48	40063.7	38477.5	25.60	1.3

**Appendix B**  
**2019 Water Quality Parameters**

Site Name:MB-7 Great Neck

Date	Time	Latitude	Longitude	Water depth (m)	Collection Time	Wind/Wave height	Air Temp (°C)	Water Temp (°C)	pH (SU)	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Conductivity (mS/cm)	Salinity (ppt)	Secchi Disk Depth (m)
6/10/2019	9:21am	40.80149°	-73.71317°		9:22am	NE-6/0	17°	17.7°	7.63	7.61	34065.9	29339.7	21.44	0.5
6/17/2019	10:10am	40.80170°	-73.71319°		10:10am	E-1/0	22°	19.9°	7.74	8.13	34502.4	31149.4	21.73	0.5
6/24/2019	8:57am	40.80170°	-73.71352°	0.9	10:05am	0/0	24°	21.7°	7.31	5.79	34548.2	32337.8	21.75	1.0
7/1/2019	9:51am	40.80156°	-73.71353°	1.8	9:52am	0/0	21°	22.7°	7.97	8.13	34602.5	33113.2	21.77	0.75
7/8/2019	9:23am	40.80436°	-73.71304°	1.2	9:25am	0/0	21°	21.6°	7.00	1.81	37709.2	35216.4	24.96	1.0
7/15/2019	9:49am	40.80161°	-73.71342°	1.8	9:49am	N-05/0	22°	24.4°	7.59	7.42	36588.1	36175.4	23.13	0.75
7/15/2019 QA	9:50am	40.80159°	-73.71340°	1.8	9:49am	N-05/0	22°	24.4°	7.63	7.62	36585.3	36190.2	23.13	0.75
7/22/2019	9:17am	40.80376°	-73.71314°	1.2	9:14am	N-01/0	27°	25.5°	7.09	3.34	38255.0	38637.7	24.28	1.2 (bottom)
7/29/2019	9:33am	40.80175°	-73.71362°	1.5	9:40am	0/0	27°	24.2°	7.05	2.34	38101.9	37515.0	24.20	1.0
8/5/2019	9:48am	40.80337°	-73.71339°	0.6	9:45am	N-5/0	23°	24.3°	7.21	5.55	36588.9	36145.1	23.13	0.6 (bottom)
8/12/2019	9:47am	40.80185°	-73.71349°	3.0	9:50am	N-1/0	26°	24.4°	7.40	3.56	39171.7	38733.3	25.95	0.75
8/19/2019	9:38am	40.80333°	-73.71323°	1.0	9:38am	0/0	27°	24.2°	7.30	4.26	39805.3	39184.0	25.40	1.0 (just above bottom)
8/26/2019	9:26am	40.80163°	-73.71349°	1.8	9:25am	N-10/0	15°	23.2°	7.37	4.01	37757.5	36431.7	23.97	1.0
8/26/2019 QA	9:27am	40.80159°	-73.71349°	1.8	9:25am	N-10/0	15°	23.2°	7.37	3.96	36363.7	36045.7	23.69	1.0