

DK-9

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Appendix A. LIMNOLOGICAL DATA

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LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK CAC03 MG/L	P.ALK CAC03 MG/L	SPEC. COND. MICRO-MMDS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 1 MONTH 8 DAY 1 HOUR 4 JULIAN DAY 214 LATITUDE 43.380N LONGITUDE 79.680W																			
0.	15.20	.24	.009	28.	28.4	.1	38.	7.5	13.2	1.6	98.	4.5	337.	8.69	.131	11.59	119.	2.4	
10.	7.10	.22	.009	28.	28.5	.3	39.	7.5	12.8	1.5	100.	0.0	338.	8.20	.158	12.31	105.	2.5	
20.	5.60	.16	.003	28.	27.8	.5	39.	7.5	12.9	1.5	100.	0.0	342.	8.15	.160	11.01	96.	1.7	
31.	4.90	.16	.003	28.	27.6	.5	39.	7.5	13.0	1.5	100.	0.0	342.	8.05	.168	11.22	90.	2.3	
35.7B																			
STATION 2 MONTH 7 DAY 31 HOUR 23.6 JULIAN DAY 213 LATITUDE 43.260N LONGITUDE 79.640W																			
0.	16.30	.10	.004	30.	28.3	.1	37.	7.5	12.8	1.5	96.	5.1	328.	8.65	.119	9.72	102.	5.8	
8.	8.00	.13	.003	28.	28.4	.2	39.	7.5	12.8	1.5	101.	0.0	341.	8.08	.141	9.26	81.	3.1	
15.	5.00	.22	.002	29.	28.0	.4	39.	7.6	12.8	1.5	103.	0.0	342.	7.93	.150	9.84	80.	3.3	
21.9B																			
STATION 3 MONTH 7 DAY 31 HOUR 22.5 JULIAN DAY 213 LATITUDE 43.220N LONGITUDE 79.420W																			
0.	19.60	.07	.003	28.	26.5	.3	36.	7.5	12.6	1.5	95.	4.8	317.	8.65	.125			5.1	
10.	8.00	.12	.003	27.	27.8	.5	39.	7.5	12.6	1.5	101.	0.0	343.	7.95	.148			3.9	
20.	4.30	.14	.003	28.	27.8	.5	39.	7.5	12.6	1.5	103.	0.0	344.	7.64	.155			1.7	
25.6B																			
STATION 5 MONTH 8 DAY 1 HOUR 2.4 JULIAN DAY 214 LATITUDE 43.360N LONGITUDE 79.480W																			
0.	17.20	.18	.003	29.	27.3	.1	37.	7.4	12.8	1.5	95.	5.3	333.	8.82	.125			4.2	
10.	9.80	.21	.003	28.	27.6	.1	38.	7.4	12.8	1.5	99.	4.5	333.	8.77	.148			2.5	
20.	5.90	.32	.005	28.	27.6	.2	39.	7.4	12.7	1.5	99.	0.0	336.	8.10	.162			2.9	
30.	5.30	.31	.003	28.	27.5	.3	39.	7.4	12.7	1.5	99.	0.0	341.	8.17	.165			1.9	
50.	4.70	.26	.003	28.	28.2	.3	39.	7.5	12.7	1.5	99.	0.0	342.	8.15	.165			1.7	
85.	3.90	.20	.003	27.	28.0	.5	39.	7.5	12.7	1.5	99.	0.0	340.	8.05	.165			2.3	
95.1B																			
STATION 7 MONTH 8 DAY 1 HOUR 1.4 JULIAN DAY 214 LATITUDE 43.540N LONGITUDE 79.550W																			
0.	14.50	.23	.003	27.	28.0	.1	39.	7.5	13.0	1.5	98.	4.5	335.	8.75	.139			1.9	
8.	9.50	.27	.004	27.	27.8	.1	39.	7.4	12.8	1.5	99.	1.9	335.	8.40	.159			1.9	
17.	6.70	.24	.004	28.	27.9	.2	39.	7.4	12.8	1.5	99.	.5	335.	8.28	.164			1.7	
21.9B																			
STATION 8 MONTH 8 DAY 1 HOUR 4.7 JULIAN DAY 214 LATITUDE 43.600N LONGITUDE 79.350W																			
0.	14.20	.16	.010	27.	28.3	.1	38.	7.5	13.2	1.5	101.	4.3	346.	8.64	.152	11.65	117.	3.8	
10.	7.70	.15	.002	27.	27.9	.2	38.	7.5	13.2	1.5	100.	1.6	344.	8.38	.168	12.61	109.	2.6	
20.	6.10	.17	.002	29.	28.1	.3	39.	7.6	13.2	1.5	98.	0.0	344.	8.20	.175	11.80	98.	1.7	
30.	5.10	.13	.002	28.	27.6	.3	39.	7.6	13.2	1.5	99.	0.0	344.	8.18	.172	11.18	91.	1.5	
50.	4.30	.13	.002	29.	27.2	.3	39.	7.5	13.1	1.5	100.	0.0	346.	8.01	.172	11.33	90.	1.9	
58.	4.30	.05	.004	28.	27.5	.4	39.		13.1	1.5	99.	0.0	349.	8.10	.180	11.03	88.	2.9	
67.7B																			
STATION 10 MONTH 8 DAY 1 HOUR 3.4 JULIAN DAY 214 LATITUDE 43.420N LONGITUDE 79.280W																			
0.	19.84	.03	.002	28.	27.3	0.0	36.	7.4	13.3	1.5	95.	3.7	331.	8.72	.132			3.5	
10.	8.50	.14	.002	28.	27.9	0.0	38.	7.4	13.0	1.4	99.	0.0	349.	8.18	.165			2.3	
20.	5.90	.21	.002	27.	27.6	.1	39.	7.5	13.0	1.4	98.	0.0	349.	8.20	.169			2.5	
30.	5.00	.20	.004	28.	27.5	.2	39.	7.4	13.1	1.5	99.	0.0	350.	8.18	.169			2.1	
50.	4.20	.07	.002	29.	27.3	.3	39.	7.5	13.1	1.4	100.	0.0	349.	8.08	.171			1.7	
100.	3.80	.02	.005	28.	27.6	.3	39.	7.6	13.2	1.5	99.	0.0	352.	8.10	.173			1.5	
115.	3.80	.02	.002	27.	27.6	.7	39.	7.6	13.2	1.5	101.	0.0	353.	8.02	.178			1.4	
122.9B																			
STATION 12 MONTH 7 DAY 31 HOUR 21.4 JULIAN DAY 213 LATITUDE 43.260N LONGITUDE 79.220W																			
0.	17.50	.03	.002	27.	26.5	.1	36.	7.4	12.8	1.4	97.	5.8	322.	8.63	.125	9.10	98.	2.9	
10.	4.20	.03	.005	28.	27.3	.3	38.	7.4	13.1	1.4	100.	0.0	337.	8.12	.143	10.80	85.	2.1	
22.	4.10	.06	.004	28.	27.5	.4	39.	7.4	13.1	1.4	102.	0.0	342.	7.94	.160	11.57	91.	1.2	
27.4B																			
STATION 14 MONTH 7 DAY 31 HOUR 18.7 JULIAN DAY 213 LATITUDE 43.290N LONGITUDE 79.080W																			
0.	22.50	.03	.007	25.	26.3	.1	36.	7.5	12.9	1.4	92.	4.2	312.	8.70	.153	8.91	105.	2.3	
5.	21.30	.03	.007	26.	26.5	.1	36.	7.4	12.8	1.4	93.	2.4	321.	8.58	.157	8.72	101.	2.3	
10.	13.50	.07	.002	26.	26.9	.1	37.	7.4	12.9	1.4	96.	1.3	331.	8.39	.140	8.71	86.	1.9	
14.6B																			
STATION 15 MONTH 7 DAY 31 HOUR 19.6 JULIAN DAY 213 LATITUDE 43.400N LONGITUDE 79.010W																			
0.	23.60	.02	.007	26.	25.8	.1	36.	7.4	12.3	1.4	96.	11.4	312.	8.81	.122			2.6	
10.	22.40	.04	.002	27.	25.8	.1	36.	7.4	12.6	1.4	98.	4.6	320.	8.49	.140			3.7	
20.	6.80	.23	.000	28.	27.6	.2	39.	7.4	13.5	1.4	100.	0.0	334.	8.17	.155			2.6	
30.	4.60	.15	.001	28.	27.4	.3	39.	7.4	13.5	1.4	100.	0.0	336.	8.17	.160			2.3	
50.	3.90	.07	.004	29.	27.6	.3	39.	7.5	13.6	1.5	100.	0.0	338.	8.01	.160			1.8	
97.	3.90	.18	.003	28.	27.9	.6	39.	7.5	13.6	1.5	103.	0.0	341.	7.90	.162			2.0	
107.0B																			
STATION 19 MONTH 8 DAY 1 HOUR 6.1 JULIAN DAY 214 LATITUDE 43.780N LONGITUDE 79.120W																			
0.	14.05	.11	.002	27.	28.0	.2	39.	7.4	13.7	1.5	102.	6.1	345.	8.58	.152			3.0	
10.	8.90	.11	.001	27.	28.1	.2	39.	7.4	13.5	1.4	102.	2.5	350.	8.33	.162			3.4	
20.	7.00	.16	.002	27.	28.3	.2	39.	7.5	13.7	1.5	99.	0.0	356.	7.96	.170			4.9	
23.8B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CACO3	P.ALK MG/L CACO3	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 20 MONTH 8 DAY 1 HOUR 8.5 JULIAN DAY 214 LATITUDE 43.830N LONGITUDE 78.850W																			
0.	15.90	.14	.000	28.	28.2	.2	39.	7.4	13.5	1.4	89.	10.4	349.	8.45	.158				4.0
10.	8.30	.17	.009	28.	27.9	.2	39.	7.4	13.5	1.5	100.	0.0	351.	8.14	.174				2.7
20.	6.20	.18	.004	28.	27.9	.2	39.	7.4	13.5	1.5	100.	0.0	353.	7.92	.178				4.0
23.	6.20	.18	.005	28.	27.7	.2	39.	7.5	13.5	1.5	100.	0.0	354.	7.99	.172				2.9
27.4B																			
STATION 24 MONTH 8 DAY 1 HOUR 7.3 JULIAN DAY 214 LATITUDE 43.650N LONGITUDE 78.800W																			
0.	17.00	.04	.004	28.	27.8	.1	37.	7.4	13.7	1.4	96.	12.3	336.	8.70	.140				3.9
10.	9.00	.07	.003	28.	27.8	.1	38.	7.4	13.7	1.4	99.	.6	348.	8.25	.160				4.2
20.	5.30	.14	.000	28.	28.1	.2	39.	7.4	13.9	1.5	100.	0.0	351.	8.04	.175				4.4
30.	4.60	.13	.003	27.	28.1	.2	39.	7.4	13.8	1.5	101.	0.0	352.	8.10	.170				2.1
50.	3.90	.05	.003	29.	27.9	.3	39.	7.4	13.7	1.5	108.	0.0	352.	8.12	.160				2.3
100.	3.80	.07	.004	27.	28.0	.4	39.	7.5	13.8	1.5	99.	0.0	353.	7.99	.169				1.9
110.	3.80	.05	.003	28.	28.3	.6	39.	7.4	13.8	1.5	101.	0.0	353.	8.01	.172				2.1
120.7B																			
STATION 30 MONTH 7 DAY 31 HOUR 17.5 JULIAN DAY 213 LATITUDE 43.360N LONGITUDE 78.730W																			
0.	23.30	.04	.002	27.	25.8	.1	36.	7.4	13.4	1.4	93.	2.8	313.	8.39	.132				3.1
10.	10.80	.13	.002	27.	27.2	.2	37.	7.4	13.7	1.5	94.		325.	8.23	.150				2.9
20.	4.30	.14	.009	28.	28.0	.5	39.	7.4	13.5	1.5	98.	0.0	342.	8.00	.158				4.6
25.	4.30	.08	.004	28.	27.9	.5	39.	7.4	13.4	1.5	103.	0.0	343.	7.95	.165				5.0
30.0B																			
STATION 31 MONTH 7 DAY 31 HOUR 16.5 JULIAN DAY 213 LATITUDE 43.390N LONGITUDE 78.500W																			
0.	23.20	.08	.011	28.	26.8	.1	35.	7.4	13.2	1.5	93.	3.7	310.	8.60	.130				4.0
10.	8.10	.15	.002	28.	27.8	.1	38.	7.4	13.3	1.5	99.	0.0	332.	8.05	.159				2.1
20.	5.10	.22	.004	28.	28.1	.3	39.	7.4	13.3	1.5	102.	0.0	341.	7.92	.162				1.5
30.	4.00	.10	.003	28.	28.3	.4	39.	7.4	13.3	1.5	103.	0.0	341.	7.80	.152				2.3
36.6B																			
STATION 32 MONTH 7 DAY 31 HOUR 15.4 JULIAN DAY 213 LATITUDE 43.540N LONGITUDE 78.500W																			
0.	22.40	.33	.003	27.	27.8	.1	36.	7.4	13.1	1.4	95.	4.2	315.	8.70	.132				3.7
10.	11.60	.17	.003	26.	27.9	.1	37.	7.4	13.1	1.5	95.	3.1	322.	8.58	.150				5.0
20.	5.40	.08	.003	27.	28.3	.1	38.	7.4	12.9	1.4	98.	0.0	332.	8.20	.162				3.0
30.	4.70	.14	.001	27.	28.2	.2	38.	7.4	13.2	1.5	99.	0.0	336.	8.02	.165				3.2
50.	4.10	.11	.002	29.	28.6	.2	38.	7.4	13.2	1.5	99.	0.0	339.	8.02	.169				2.7
100.	3.90	.06	.003	29.	28.5	.3	39.	7.4	13.2	1.5	99.	0.0	339.	8.00	.150				3.1
152.	3.80	.02	.005	28.	28.7	.3	39.	7.4	13.2	1.5	100.	0.0	341.	8.09	.165				2.5
171.9B																			
STATION 34 MONTH 8 DAY 1 HOUR 10.5 JULIAN DAY 214 LATITUDE 43.750N LONGITUDE 78.500W																			
0.	17.20	.02	.009	29.	28.2	.1	39.	7.4	13.2	1.4	101.	4.5	347.	8.64	.140				1.9
10.	9.10	.05	.005	30.	28.9	.1	39.	7.4	13.2	1.4	102.	0.0	352.	8.12	.160				1.7
20.	5.60	.10	.002	30.	28.9	.1	39.	7.4	13.3	1.5	102.	0.0	355.	8.00	.159				2.4
30.	4.40	.22	.002	29.	29.2	.1	39.	7.4	13.4	1.4	101.	0.0	355.	8.08	.158				.8
50.	4.00	.05	.004	29.	29.1	.2	39.	7.4	13.3	1.5	102.	0.0	355.	8.00	.161				1.1
80.	3.90	.12	.005	29.	29.3	.3	39.	7.4	13.1	1.5	101.	0.0	356.	7.88	.168				1.5
89.6B																			
STATION 35 MONTH 8 DAY 1 HOUR 9.8 JULIAN DAY 214 LATITUDE 43.880N LONGITUDE 78.500W																			
0.	14.80	.12	.002	29.	28.6	.1	39.	7.4	13.1	1.5	100.	4.3	345.	8.41	.151				2.3
10.	9.60	.16	.002	28.	29.0	.2	38.	7.3	13.0	1.5	100.	.4	351.	8.23	.161				4.4
15.	9.10	.13	.002	29.	29.3	.3	39.	7.3	13.0	1.4	103.	0.0	351.	8.10	.170				3.1
20.1B																			
STATION 36 MONTH 8 DAY 1 HOUR 12.6 JULIAN DAY 214 LATITUDE 43.920N LONGITUDE 78.240W																			
0.	18.90	.06	.006	27.	27.8	.3	38.	7.4	13.8	1.5	97.	3.2	337.	8.63	.149				3.2
10.	14.10	.08	.004	27.	27.6	.3	38.	7.3	13.8	1.4	96.	1.2	344.	8.31	.160				3.6
19.	12.80	.13	.003	27.	27.7	.3	38.	7.3	13.8	1.4	98.	1.1	344.	8.31	.162				2.9
24.7B																			
STATION 38 MONTH 8 DAY 1 HOUR 11.6 JULIAN DAY 214 LATITUDE 43.760N LONGITUDE 78.230W																			
0.	17.20	.05	.002	29.	27.7	.3	39.	7.3	13.0	1.5	99.	3.4	343.	8.62	.149				2.5
10.	7.90	.05	.004	29.	27.6	.2	39.	7.4	13.1	1.5	99.	.1	346.	8.29	.162				3.6
20.	5.30	.14	.002	29.	27.7	.2	39.	7.4	13.2	1.5	99.	0.0	347.	8.11	.167				2.3
30.	4.50	.18	.003	30.	27.7	.2	39.	7.4	13.2	1.4	101.	0.0	347.	8.13	.160				2.4
50.	4.10	.10	.004	29.	27.6	.2	39.	7.4	13.3	1.4	100.	0.0	347.	8.11	.160				1.9
91.	4.00	.06	.004	29.	27.9	.3	39.	7.4	13.2	1.4	102.	0.0	353.	8.09	.168				1.2
100.6B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

SAMPLE DEPTH M	WATER TEMP C	NOS MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L	P.ALK MG/L	SPEC. COND. MICRO-MHOS	PH	EH VOLTS	DO MG/L	DO PCT.	TOT. SUSP SAT. MATR 100ML MG/L	TOTAL COLI
STATION 40 MONTH 7 DAY 31 HOUR 14.0 JULIAN DAY 213 LATITUDE 43.530N LONGITUDE 78.210W																			
0.	22.10	.03	.003	27.	26.4	.1	35.	7.4	12.9	1.4	90.	4.3	308.	8.75	.129				1.0
10.	17.80	.03	.003	30.	27.3	.1	35.	7.3	13.1	1.4	89.	3.2	318.	8.59	.152				1.7
20.	5.20	.10	.002	28.	27.7	.2	39.	7.4	12.9	1.5	101.	0.0	338.	8.05	.160				1.1
30.	4.40	.04	.002	28.	27.9	.2	38.	7.4	13.0	1.4	100.	0.0	338.	8.03	.161				.8
50.	4.00	.04	.003	28.	27.7	.3	38.	7.4	13.1	1.5	99.	0.0	339.	8.04	.162				1.3
100.	3.90	.06	.005	28.	27.7	.3	39.	7.4	13.1	1.5	100.	0.0	341.	8.08	.170				.6
164.	3.80	.07	.004	28.	27.9	.3	39.	7.4	13.3	1.5	100.	0.0	340.	8.08	.170				.6
173.7B																			
STATION 41 MONTH 7 DAY 31 HOUR 13.1 JULIAN DAY 213 LATITUDE 43.390N LONGITUDE 78.200W																			
0.	22.30	.05	.005	27.	26.9	.1	34.	7.4	12.9	1.4	87.	4.1	310.	8.68	.129	8.31	98.	2.3	
10.	9.50	.05	.004	28.	27.1	.1	35.	7.4	12.9	1.4	91.	1.1	321.	8.37	.150	8.63	78.	2.3	
19.	6.00	.15	.001	28.	27.4	.1	38.	7.5	12.7	1.5	97.	0.0	335.	8.05	.152	9.42	78.	3.2	
23.8B																			
STATION 42 MONTH 7 DAY 31 HOUR 11.3 JULIAN DAY 213 LATITUDE 43.390N LONGITUDE 77.990W																			
0.	21.60	.04	.002	28.	28.0	.1	34.	7.4	13.2	1.7	85.	3.1	311.	8.59	.135				3.8
10.	15.10	.07	.001	28.	27.4	.1	37.	7.4	12.7	1.4	97.	0.0	328.	8.05	.158				2.3
32.	5.60	.14	.002	28.	27.4	.3	38.	7.5	12.8	1.4	100.	0.0	337.	7.98	.159				2.7
33.8B																			
STATION 45 MONTH 8 DAY 1 HOUR 15.7 JULIAN DAY 214 LATITUDE 43.590N LONGITUDE 78.010W																			
0.	20.40	.06	.002	29.	27.6	.1	35.	7.4	12.8	1.4	88.	3.7	323.	8.70	.139				2.5
10.	9.00	.09	.001	30.	27.8	.1	38.	7.4	12.9	1.4	99.	0.0	349.	8.20	.166				3.2
20.	4.50	.16	.003	30.	27.8	.2	38.	7.4	13.0	1.4	99.	0.0	353.	8.09	.171				3.2
30.	4.20	.08	.002	28.	27.8	.2	38.	7.5	13.0	1.4	99.	0.0	353.	8.01	.179				5.2
50.	4.00	.10	.003	28.	27.8	.3	38.	7.5	13.0	1.4	99.	0.0	353.	8.01	.179				2.9
100.	3.90	.03	.004	29.	28.0	.3	38.	7.5	13.0	1.4	98.	0.0	353.	8.00	.175				4.2
180.	3.80	.07	.003	29.	28.3	1.0	39.	7.5	13.0	1.4	100.	0.0	355.	7.84	.170				3.4
188.4B																			
STATION 46 MONTH 8 DAY 1 HOUR 14.7 JULIAN DAY 214 LATITUDE 43.730N LONGITUDE 78.020W																			
0.	17.00	.05	.002	29.	28.1	.1	36.	7.4	12.9	1.4	92.	3.4	334.	8.65	.119				3.6
10.	6.40	.08	.002	30.	27.9	.1	38.	7.4	12.9	1.4	98.		347.	8.22	.148				3.2
20.	4.80	.15	.001	30.	28.1	.2	38.	7.4	12.9	1.4	100.	0.0	352.	8.09	.157				3.7
30.	4.50	.10	.002	29.	28.2	.2	38.	7.4	13.0	1.4	100.	0.0	351.	8.09	.161				3.2
50.	4.00	.08	.004	29.	27.9	.3	38.	7.5	13.1	1.4	99.	0.0	352.	8.09	.161				2.7
100.	3.90	.08	.004	30.	28.1	.3	39.	7.5	13.2	1.4	99.	0.0	354.	8.11	.170				2.8
118.	3.80	.10	.002	30.	28.2	.4	39.	7.5	13.2	1.4	99.	0.0	354.	8.10	.171				3.8
128.8B																			
STATION 48 MONTH 8 DAY 1 HOUR 13.6 JULIAN DAY 214 LATITUDE 43.930N LONGITUDE 78.050W																			
0.	20.20	.06	.006	29.	28.2	.1	37.	7.4	13.2	1.4	92.	4.1	330.	8.69	.138				2.9
10.	16.10	.05	.001	29.	27.8	.2	37.	7.4	13.2	1.4	96.	2.4	335.	8.52	.150				4.6
20.	14.70	0.00	.001	29.	27.9	.2	38.	7.4	13.2	1.5	97.	1.4	332.	8.35	.150				3.2
26.	14.30	0.00	.001	29.	28.1	.2	38.	7.4	13.1	1.4	98.	.8	333.	8.30	.151				2.4
32.0B																			
STATION 49 MONTH 8 DAY 1 HOUR 23.1 JULIAN DAY 214 LATITUDE 43.940N LONGITUDE 77.680W																			
0.	21.40	0.00	.001	30.	27.8	.2	35.	7.3	12.8	1.4	89.	4.1	324.	8.75	.149				2.1
10.	18.50	0.00	.001	30.	27.3	.1	36.	7.3	12.9	1.4	91.	1.6	332.	8.39	.161				3.6
20.	16.60	0.00	.002	28.	27.3	.3	36.	7.3	12.9	1.4	93.	.5	344.	8.28	.163				2.6
24.	16.30	0.00	.001	29.	27.1	.3	37.	7.3	13.0	1.4	93.	.3	340.	8.25	.169				2.5
29.3B																			
STATION 52 MONTH 8 DAY 1 HOUR 21.8 JULIAN DAY 214 LATITUDE 43.830N LONGITUDE 77.690W																			
0.	19.30	0.00	.002	30.	28.7	.2	37.	7.4	13.0	1.4	94.	4.9	337.	8.62	.139				2.6
10.	17.10	0.00	.002	30.	28.2	.2	38.	7.4	12.9	1.5	97.		347.	8.22	.160				2.8
20.	6.60	0.00	.001	29.	28.4	.3	39.	7.4	13.0	1.5	100.	0.0	354.	8.05	.171				1.9
30.	4.50	0.00	.001	29.	28.6	.3	39.	7.4	13.0	1.5	100.	0.0	355.	8.02	.171				2.1
50.	4.20	.09	.003	30.	27.9	.6	39.	7.4	13.1	1.4	101.	9.0	355.	7.96	.155				2.7
64.	4.20	.12	.003	29.	28.4	.6	39.	7.5	13.1	1.4	102.	0.0	356.	8.00	.160				3.2
73.2B																			
STATION 54 MONTH 8 DAY 1 HOUR 20.3 JULIAN DAY 214 LATITUDE 43.660N LONGITUDE 77.720W																			
0.	19.20	.02	.002	28.	27.6	.1	35.	7.4	12.8	1.4	90.	3.4	330.	8.68	.115				3.2
10.	11.50	.06	.001	30.	28.0	.1	38.	7.4	12.8	1.4	98.	0.0	346.	8.12	.150				3.0
20.	4.60	.18	.001	28.	27.9	.3	38.	7.4	12.8	1.4	101.	0.0	355.	8.00	.175				2.8
30.	4.20	.11	.001	28.	28.2	.3	39.	7.4	12.8	1.4	100.	0.0	356.	7.91	.184				3.3
50.	4.00	.06	.001	29.	28.1	.3	39.	7.4	12.8	1.4	100.	0.0	357.	7.99	.180				2.6
100.	3.80	.12	.001	28.	28.0	.3	38.	7.4	12.9	1.4	100.	0.0	357.	8.02	.186				3.4
135.	3.70	.06	.001	28.	28.0	.6	38.	7.4	12.9	1.4	101.	0.0	357.	8.02	.189				2.1
144.5B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO- MHDS	PH	EM VOLTS	DD MG/L	DO PCT. SAT.	TOT. SUSP MATR COLI 100ML	TOTAL 100ML
STATION 56 MONTH 8 DAY 1 HOUR 18.7 JULIAN DAY 214 LATITUDE 43.450N LONGITUDE 77.740W																			
0.	20.50	.04	.002	30.	28.2	.1	34.	7.4	12.9	1.4	87.	4.2	323.	8.68	.139				2.7
10.	20.00	.02	.001	29.	27.6	.2	35.	7.4	12.9	1.4	87.	4.0	330.	8.51	.142				3.6
20.	7.50	.10	.002	28.	27.8	.3	38.	7.4	12.9	1.4	97.	0.0	352.	7.95	.160				3.4
30.	5.30	.13	.003	29.	28.4	.3	38.	7.4	12.9	1.4	99.	0.0	349.	7.97	.158				2.7
50.	4.40	.06	.002	29.	28.2	.4	38.	7.4	12.9	1.4	99.	0.0	350.	8.00	.156				2.6
100.	3.80	.07	.002	29.	28.2	.5	38.	7.4	13.0	1.5	100.	0.0	355.	8.01	.162				2.3
125.	3.80	.05	.002	28.	28.4	.5	39.	7.4	13.0	1.4	100.	0.0	356.	8.01	.160				2.7
133.5B																			
STATION 59 MONTH 8 DAY 1 HOUR 17.4 JULIAN DAY 214 LATITUDE 43.360N LONGITUDE 77.750W																			
0.	22.30	.01	.014	29.	27.5	.1	34.	7.4	13.2	1.5	86.	4.1	320.	8.69	.145	8.73	103.		5.3
10.	21.50	.06	.003	29.	27.8	.1	34.	7.4	13.2	1.5	87.	4.5	324.	8.59	.155	8.49	99.		3.6
20.	6.50	.15	.002	29.	27.8	.2	38.	7.4	13.1	1.5	90.	0.0	346.	7.87	.172	9.87	83.		4.0
30.	4.70	.15	.002	28.	27.6	.3	38.	7.4	13.1	1.5	88.	0.0	347.	8.00	.169	10.52	84.		3.4
38.3B																			
STATION 60 MONTH 8 DAY 3 HOUR 12.2 JULIAN DAY 216 LATITUDE 43.260N LONGITUDE 77.500W																			
0.	21.50	.02	.003	28.	28.1	.3	34.	7.4	13.2	1.5	87.	4.8	323.	8.81	.121	9.06	105.		4.6
8.	20.80	.04	.007	28.	27.9	.2	34.	7.4	13.2	1.5	89.	3.5	325.	8.69	.140	8.74	100.		5.3
15.	15.20	.05	.004	28.	28.2	.1	35.	7.4	13.2	1.4	95.	1.6	334.	8.41	.130	8.36	86.		5.6
21.0B																			
STATION 62 MONTH 8 DAY 3 HOUR 10.5 JULIAN DAY 216 LATITUDE 43.480N LONGITUDE 77.500W																			
0.	21.20	.09	.007	28.	27.1	.1	34.	7.4	12.9	1.4	88.	4.1	321.	8.72	.122				2.6
10.	21.00	.07	.003	29.	27.5	.1	34.	7.4	12.8	1.4	88.	4.3	321.	8.72	.132				3.1
20.	6.50	.10	.002	29.	27.7	.1	38.	7.4	13.0	1.5	99.	0.0	349.	8.12	.150				4.5
30.	4.40	.14	.002	28.	27.9	.4	38.	7.4	13.1	1.5	99.	0.0	352.	8.12	.153				3.7
50.	4.10	.12	.002	29.	28.1	.4	38.	7.4	13.1	1.4	99.	0.0	352.	8.12	.159				3.0
100.	4.00	.17	.002	29.	28.2	.4	38.	7.4	13.1	1.4	99.	0.0	352.	8.12	.160				3.6
138.	4.00	.15	.004	28.	27.9	.4	38.	7.4	13.1	1.4	99.	0.0	352.	8.09	.160				2.8
177.4B																			
STATION 64 MONTH 8 DAY 3 HOUR 9.1 JULIAN DAY 216 LATITUDE 43.690N LONGITUDE 77.500W																			
0.	18.40	.07	.001	27.	27.7	.2	35.	7.4	12.9	1.5	92.	4.7	331.	8.68	.129				1.7
10.	17.00	.10	.001	27.	27.7	.1	35.	7.4	12.8	1.4	95.	4.1	333.	8.55	.160				3.0
20.	11.10	.09	.001	27.	28.1	.1	37.	7.4	13.0	1.4	109.	2.1	348.	8.23	.155				3.8
30.	6.50	.17	.001	28.	28.4	.1	38.	7.4	13.0	1.5	100.	0.0	353.	8.10	.180				3.2
50.	4.50	.14	.002	29.	28.3	.3	38.	7.5	12.9	1.5	102.	0.0	354.	8.08	.170				3.2
70.	4.00	.14	.001	28.	28.7	.6	39.	7.5	13.2	1.5	103.	0.0	354.	8.00	.170				2.4
88.7B																			
STATION 66 MONTH 8 DAY 2 HOUR .2 JULIAN DAY 215 LATITUDE 43.920N LONGITUDE 77.430W																			
0.	20.50	.05	.002	27.	27.8	.2	35.	7.3	12.8	1.4	90.	3.5	324.	8.69	.137				3.6
10.	19.50	.07	.001	27.	28.1	.2	35.	7.4	12.9	1.4	91.	1.5	330.	8.39	.161				3.0
21.	12.60	.05	.001	28.	28.0	.3	36.	7.4	12.9	1.4	94.	1.6	335.	8.39	.162				1.9
26.5B																			
STATION 67 MONTH 8 DAY 3 HOUR 7.4 JULIAN DAY 216 LATITUDE 43.820N LONGITUDE 77.250W																			
0.	20.60	.06	.001	27.	27.8	.2	34.	7.4	13.1	1.4	90.	3.2	325.	8.62	.148				2.7
10.	20.50	.08	.002	28.	28.0	.2	35.	7.4	12.9	1.4	90.	3.1	326.	8.62	.145				3.8
21.	19.10	.08	.001	28.	27.8	.2	35.	7.4	12.9	1.4	91.	1.9	329.	8.45	.148				3.7
25.6B																			
STATION 69 MONTH 8 DAY 2 HOUR 2.2 JULIAN DAY 215 LATITUDE 43.590N LONGITUDE 77.250W																			
0.	20.00	.06	.002	26.	27.4	.2	35.	7.4	12.9	1.4	90.	3.5	329.	8.71	.120				2.5
10.	12.00	.11	.001	27.	28.0	.2	37.	7.4	12.9	1.4	97.	0.0	344.	8.18	.157				3.5
20.	6.60	.16	.002	28.	28.5	.3	38.	7.4	13.0	1.4	99.	0.0	351.	8.18	.150				3.2
30.	5.00	.15	.002	28.	28.3	.3	38.	7.4	13.0	1.4	100.	0.0	352.	8.15	.152				1.7
50.	4.30	.12	.003	28.	28.3	.4	38.	7.4	12.9	1.4	100.	0.0	352.	8.10	.159				1.7
100.	3.90	.15	.003	28.	28.1	.4	38.	7.4	13.1	1.4	100.	0.0	352.	8.10	.160				2.6
142.	3.80	.08	.003	29.	28.4	.7	39.	7.5	13.1	1.4	101.	0.0	353.	8.10	.162				2.3
151.8B																			
STATION 71 MONTH 8 DAY 2 HOUR 3.0 JULIAN DAY 215 LATITUDE 43.390N LONGITUDE 77.250W																			
0.	19.80	.06	.001	26.	27.4	.1	34.	7.4	12.8	1.4	87.	4.1	321.	8.75	.141				2.3
10.	15.60	.05	.003	27.	27.5	.1	34.	7.4	12.9	1.5	88.	3.3	325.	8.66	.158				3.6
20.	7.80	.11	.006	28.	28.1	.1	38.	7.4	12.9	1.5	99.	0.0	347.	8.00	.172				3.4
30.	4.20	.06	.002	29.	28.5	.3	38.	7.4	13.0	1.5	102.	0.0	350.	8.01	.173				1.7
50.	4.00	.07	.007	28.	28.3	.3	38.	7.5	13.1	1.5	100.	0.0	351.	8.10	.173				1.5
100.	3.90	.15	.006	27.	28.5	.3	38.	7.5	12.9	1.5	100.	0.0	352.	8.03	.178				1.5
167.	3.80	.09	.002	28.	28.7	.6	39.	7.5	12.9	1.4	100.	0.0	353.	8.03	.179				1.0
177.4B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

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 SAMPLE WATER NO3 P04 SO4 CL SI02 CA MG NA K TALK PALK SPEC PH EM DO O0 TOT. TOTAL  
 DEPTH TEMP MG/L P04 MG/L CL MG/L SI02 MG/L CA MG/L NA MG/L K MG/L TALK MG/L PALK MG/L SPEC COND. VOLTS DO PCT. SUSP COLI  
 M C K P MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L CACOS CACOS MICRO- SAT. MATR 100ML  
 MG/L MMOS  
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STATION 72 MONTH 8 DAY 2 HOUR 4.8 JULIAN DAY 215 LATITUDE 43.300N LONGITUDE 77.250W  
 0. 20.80 .05 .003 26. 27.7 .1 34. 7.3 12.9 1.4 89. 3.4 324. 8.63 .162 2.3  
 10. 20.50 .15 .005 28. 27.9 .1 35. 7.3 12.9 1.4 87. 2.0 330. 8.42 .162 2.3  
 20. 9.50 .18 .004 29. 28.5 .2 38. 7.4 12.8 1.5 99. 0.0 345. 8.01 .171 2.2  
 30. 4.50 .19 .003 29. 28.8 .3 38. 7.4 13.0 1.5 102. 0.0 348. 8.02 .172 2.5  
 34.7B

STATION 73 MONTH 8 DAY 2 HOUR 6.1 JULIAN DAY 215 LATITUDE 43.300N LONGITUDE 76.940W  
 0. 22.10 .09 .004 26. 27.3 .1 34. 7.4 12.8 1.5 91. 4.3 317. 8.58 .146 7.88 93. 2.6  
 10. 21.00 .04 .002 26. 27.9 .2 35. 7.4 12.8 1.4 92. 2.2 327. 8.35 .165 7.37 85. 2.7  
 20. 12.00 .09 .006 26. 28.6 .2 36. 7.4 12.8 1.4 95. 0.0 340. 8.11 .170 7.80 75. 3.2  
 23.8B

STATION 75 MONTH 8 DAY 3 HOUR 3.5 JULIAN DAY 216 LATITUDE 43.490N LONGITUDE 76.980W  
 0. 20.80 .10 .002 26. 28.0 .1 35. 7.3 12.9 1.4 89. 5.4 324. 8.75 .128 4.0  
 10. 17.50 .08 .003 26. 28.4 .1 35. 7.3 12.9 1.4 93. 3.7 333. 8.70 .145 3.4  
 18. 7.10 .08 .006 27. 28.5 .2 37. 7.3 12.9 1.4 98. .6 342. 8.24 .160 4.4  
 25. 6.10 .18 .001 28. 29.3 .3 38. 7.4 13.0 1.4 99. 0.0 351. 8.12 .160 2.7  
 40. 5.00 .19 .003 27. 29.1 .3 38. 7.4 13.1 1.5 99. 0.0 352. 8.10 .170 1.5  
 70. 4.40 .08 .007 27. 29.3 .3 38. 7.4 12.9 1.5 100. 0.0 352. 8.10 .164 2.3  
 165. 4.00 .10 .002 27. 29.4 .4 39. 7.4 13.1 1.5 103. 0.0 352. 8.12 .160 2.4  
 221.3B

STATION 77 MONTH 8 DAY 3 HOUR 5.3 JULIAN DAY 216 LATITUDE 43.670N LONGITUDE 77.010W  
 0. 17.90 .07 .005 28. 27.8 .1 36. 7.4 13.2 1.5 94. 4.3 334. 8.69 .130 3.8  
 8. 15.00 .07 .008 28. 28.3 .1 37. 7.4 13.2 1.5 96. 3.1 339. 8.50 .140 4.1  
 15. 11.50 .10 .001 28. 28.8 .1 38. 7.4 13.2 1.4 99. .5 347. 8.25 .164 2.9  
 23. 7.20 .17 .001 28. 29.0 .2 38. 7.5 13.0 1.5 99. 0.0 348. 8.15 .165 3.2  
 37. 5.00 .13 .002 29. 28.8 .2 38. 7.4 12.9 1.4 100. 0.0 349. 7.96 .175 2.5  
 75. 4.10 .11 .004 29. 29.2 .2 38. 7.5 13.0 1.5 99. 0.0 353. 7.95 .162 2.3  
 94. 3.90 .13 .003 30. 29.6 .4 39. 7.5 13.2 1.5 99. 0.0 356. 8.09 .130 .4  
 128.0B

STATION 78 MONTH 8 DAY 3 HOUR 6.5 JULIAN DAY 216 LATITUDE 43.800N LONGITUDE 77.040W  
 0. 20.60 .05 .001 29. 28.0 .1 35. 7.4 13.2 1.4 91. 3.4 325. 8.68 .132 4.0  
 10. 20.50 .08 .001 28. 28.3 .1 35. 7.4 13.2 1.4 90. 2.9 329. 8.62 .138 3.7  
 20. 13.10 .08 .001 28. 28.9 .1 38. 7.4 13.0 1.4 97. . 342. 8.22 .142 2.7  
 30. 6.50 .13 .003 28. 30.2 .3 39. 7.5 13.6 1.5 102. 0.0 355. 8.10 .153 3.5  
 52. 4.00 .13 .001 28. 30.1 .7 39. 7.6 13.6 1.5 101. 0.0 362. 8.08 .159 2.8  
 62.0B

STATION 79 MONTH 8 DAY 2 HOUR 12.9 JULIAN DAY 215 LATITUDE 43.890N LONGITUDE 76.900W  
 0. 20.40 .04 .002 28. 27.7 .1 35. 7.4 13.1 1.5 93. 2.5 324. 8.65 .122 4.0  
 10. 20.60 .05 .001 28. 27.7 .1 35. 7.4 13.1 1.4 90. 1.7 325. 8.60 .138 3.9  
 15. 20.40 .06 .004 28. 27.9 .1 35. 7.4 13.0 1.4 91. 1.5 329. 8.60 .132 3.8  
 23.1B

STATION 83 MONTH 8 DAY 2 HOUR 11.0 JULIAN DAY 215 LATITUDE 43.740N LONGITUDE 76.790W  
 0. 21.00 .06 .006 28. 27.4 .1 35. 7.4 13.2 1.4 91. 7.6 326. 8.75 .131 4.6  
 10. 20.20 .04 .003 28. 27.7 .1 36. 7.4 13.2 1.4 97. 4.5 331. 8.58 .128 3.4  
 20. 6.80 .17 .001 27. 29.0 .1 38. 7.5 13.6 1.4 101. 0.0 352. 8.12 .142 3.6  
 30. 5.20 .21 .001 28. 29.3 .2 39. 7.5 13.5 1.4 102. 0.0 354. 8.12 .143 3.6  
 50. 4.20 .19 .001 28. 29.5 .3 39. 7.5 13.6 1.4 102. 0.0 355. 8.10 .150 3.2  
 90. 3.90 .30 .005 29. 29.7 .6 38. 7.5 13.6 1.5 103. 0.0 361. 7.71 .155 2.9  
 99.7B

STATION 85 MONTH 8 DAY 2 HOUR 9.6 JULIAN DAY 215 LATITUDE 43.600N LONGITUDE 76.680W  
 0. 20.50 .09 .001 27. 27.8 0.0 35. 7.3 13.4 1.4 93. 5.5 330. 8.69 .150 2.8  
 10. 19.50 .15 .003 28. 28.0 .1 35. 7.3 13.3 1.4 96. 3.9 330. 8.52 .158 3.2  
 20. 6.30 .20 .001 28. 28.9 .2 38. 7.4 13.3 1.4 100. 0.0 348. 8.12 .162 2.3  
 30. 5.10 .24 .002 28. 28.7 .2 38. 7.4 13.3 1.4 100. 0.0 351. 8.12 .160 2.6  
 50. 4.40 .20 .001 28. 28.5 .3 38. 7.4 13.3 1.5 100. 0.0 353. 8.02 .163 2.2  
 100. 4.00 .15 .004 28. 28.4 .3 38. 7.4 13.1 1.5 99. 0.0 354. 8.00 .165 .8  
 171. 3.90 .14 .001 28. 28.2 .4 38. 7.4 13.3 1.5 99. 0.0 354. 7.94 .169 2.1  
 192.0B

STATION 89 MONTH 8 DAY 2 HOUR 7.3 JULIAN DAY 215 LATITUDE 43.420N LONGITUDE 76.750W  
 0. 21.70 .06 .003 28. 27.0 .1 34. 7.4 12.9 1.4 90. 4.0 319. 8.60 .141 2.9  
 10. 21.80 .07 .001 28. 27.3 0.0 34. 7.3 13.2 1.4 88. 3.8 325. 8.50 .155 2.3  
 20. 12.00 .09 .002 28. 28.1 .1 38. 7.3 13.2 1.4 96. 3.2 342. 8.23 .158 1.7  
 30. 5.20 .13 .001 28. 28.1 .3 39. 7.4 13.2 1.4 103. 0.0 350. 8.09 .168 2.0  
 50. 4.00 .17 .003 28. 28.0 .3 39. 7.4 13.2 1.5 100. 0.0 353. 8.09 .160 1.3  
 71. 3.90 .05 .002 28. 28.0 .5 39. 7.4 13.3 1.4 102. 0.0 354. 8.05 .169 2.5  
 74.1B

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7214

SAMPLE DEPTH M	WATER TEMP C	NO3	PO4	SO4	CL	SiO2	CA	MG	NA	K	T.ALK	P.ALK	SPEC.	PH	EM	DO	DO	TOT.	TOTAL
		MG/L N	MG/L P	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MMDS	VOLTS	MG/L	PCT.	SUSP
STATION		MONTH		DAY		HOUR		JULIAN DAY		LATITUDE		LONGITUDE							
STATION 90		MONTH 8		DAY 3		HOUR 1.3		JULIAN DAY 216		LATITUDE 43.470N		LONGITUDE 76.570W							
0.	20.90	.04	.002	28.	27.4	.1	34.	7.4	13.1	1.4	86.	2.9	322.	8.65	.126	8.22	94.	3.0	
10.	20.60	.10	.004	27.	28.2	.2	35.	7.4	13.4	1.7	92.	1.3	336.	8.40	.162	9.07	104.	3.4	
20.	6.30	.17	.004	30.	27.8	.4	38.	7.4	13.3	1.5	98.	0.0	348.	7.91	.168	9.98	83.	2.8	
28.38																			
STATION 92		MONTH 8		DAY 2		HOUR 23.1		JULIAN DAY 215		LATITUDE 43.670N		LONGITUDE 76.380W							
0.	21.70	.10	.003	28.	27.6	.1	34.	7.4	13.2	1.5	88.	3.6	324.	8.63	.140			3.2	
10.	21.50	.10	.002	28.	28.2	.1	34.	7.4	13.2	1.4	89.	3.4	327.	8.61	.149			2.8	
20.	20.10	.09	.001	28.	28.4	.1	36.	7.4	13.3	1.4	95.	.7	338.	8.30	.162			2.6	
30.	11.00	.20	.001	28.	28.6	.1	38.	7.4	13.3	1.5	99.	0.0	351.	8.12	.163			2.4	
50.	4.30	.18	.002	28.	28.4	.2	38.	7.4	13.3	1.5	101.	0.0	351.	8.10	.162			3.2	
67.	4.10	.11	.002	29.	28.6	.3	38.	7.4	13.3	1.4	100.	0.0	352.	8.10	.170			4.0	
77.78																			
STATION 94		MONTH 8		DAY 2		HOUR 20.1		JULIAN DAY 215		LATITUDE 43.840N		LONGITUDE 76.510W							
0.	20.40	.05	.001	29.	28.2	0.0	35.	7.3	13.4	1.4	90.	3.4	324.	8.67	.152				4.0
10.	20.30	.05	.002	28.	28.4	0.0	35.	7.3	13.4	1.4	91.	2.9	326.	8.60	.161				2.8
20.	15.50	.08	.002	28.	28.2	0.0	36.	7.4	13.3	1.4	95.	1.1	336.	8.35	.168				3.5
30.	7.00	.15	.001	28.	28.7	.4	39.	7.4	13.6	1.4	101.	0.0	354.	7.98	.170				3.8
35.	4.90	.11	.010	28.	28.6	.5	39.	7.4	13.6	1.5	101.	0.0	355.	7.99	.178				3.4
48.28																			
STATION 95		MONTH 8		DAY 2		HOUR 13.8		JULIAN DAY 215		LATITUDE 43.900N		LONGITUDE 76.710W							
0.	21.30	.03	.008	28.	27.6	0.0	34.	7.3	13.1	1.4	88.	3.4	309.	8.67	.132				3.1
10.	21.20	.05	.001	28.	27.9	.1	34.	7.3	13.1	1.4	88.	4.3	326.	8.62	.134				3.4
20.	19.70	.08	.001	27.	27.9	0.0	35.	7.3	13.1	1.4	89.	3.5	327.	8.58	.131				1.3
26.58																			
STATION 96		MONTH 8		DAY 3		HOUR 14.5		JULIAN DAY 216		LATITUDE 43.980N		LONGITUDE 76.680W							
0.	20.50	.15	.001	26.	28.2	0.0	35.	7.3	13.3	1.5	93.	4.0	329.	8.70	.149	8.15	93.	2.5	
10.	20.40	.06	.001	26.	28.6	.1	35.	7.2	13.2	1.5	93.	4.1	330.	8.69	.151	8.25	94.	3.2	
20.	13.00	.12	0.000	26.	28.3	.2	38.	7.2	13.1	1.5	98.	0.0	335.	8.20	.168	7.14	70.	2.7	
30.	8.80		.002	26.	28.6	.4	39.	7.2	13.1	1.5	101.	0.0	348.	7.90	.170	7.58	67.	2.3	
34.	8.50	.09	.001	27.	28.5	.6	39.	7.3	13.2	1.5	103.	0.0	352.	7.92	.170	7.56	67.	1.2	
38.48																			
STATION 97		MONTH 8		DAY 2		HOUR 15.1		JULIAN DAY 215		LATITUDE 44.010N		LONGITUDE 76.800W							
0.	20.60	.11	.006	27.	28.5	.2	35.	7.3	13.3	1.5	92.	3.4	332.	8.60	.155				1.7
10.	20.50	.06	.002	27.	28.8	.1	35.	7.3	13.4	1.5	92.	3.7	334.	8.66	.142				1.9
20.	18.00	.06	.017	28.	29.2	.2	36.	7.3	13.6	1.5	92.	1.7	338.	8.45	.169				1.9
27.	11.50	.18	.001	27.	29.2	.4	39.	7.1	12.8	1.5	101.	0.0	345.	8.05	.169				1.9
31.18																			
STATION 98		MONTH 8		DAY 2		HOUR 16.0		JULIAN DAY 215		LATITUDE 44.080N		LONGITUDE 76.600W							
0.	21.30	.08	.002	28.	28.1	.1	35.	7.3	13.6	1.5	91.	4.0	331.	8.69	.152	8.17	95.	4.8	
10.	21.20	.07	.006	28.	28.4	.1	35.	7.3	13.5	1.5	91.	3.1	330.	8.63	.162	7.91	92.	2.9	
20.	17.60	.06	.002	27.	28.9	.2	36.	7.2	13.8	1.5	92.	1.1	341.	8.32	.168	6.87	74.	4.6	
30.	6.90	.10	.003	28.	29.6	.9	40.	7.4	13.4	1.5	106.	0.0	362.	7.89	.175	6.49	55.	4.6	
34.78																			
STATION 99		MONTH 8		DAY 2		HOUR 17.1		JULIAN DAY 215		LATITUDE 44.000N		LONGITUDE 76.480W							
0.	20.00	.07	.004	26.	27.6	.1	34.	7.2	13.2	1.5	89.	4.8	321.	8.71	.141				4.5
10.	21.00	.10	.006	27.	27.4	.1	34.	7.2	13.2	1.5	90.	4.0	322.	8.70	.158				4.4
20.	19.50	.08	.020	28.	27.8	.1	35.	7.2	13.3	1.4	90.	3.7	322.	8.68	.158				4.6
30.	7.60	.11	.002	26.	28.0	.1	36.	7.2	13.2	1.5	93.	1.9	332.	8.40	.162				2.3
46.	5.70	.14	.002	26.	29.2	.7		7.4		1.5			355.	7.95	.178				4.5
51.28																			
STATION 101		MONTH 8		DAY 2		HOUR 18.6		JULIAN DAY 215		LATITUDE 43.900N		LONGITUDE 76.280W							
0.	22.30	.07	.012	26.	28.4	.1	34.	7.2	13.4	1.5	89.	3.4	326.	8.69	.143	8.44	99.	5.3	
10.	22.20	.07	.005	26.	28.2	.1	34.	7.2	13.4	1.5	89.	2.5	325.	8.60	.151	7.87	93.	4.6	
20.	20.90	.06	.003	26.	28.5	.2	35.	7.3	13.2	1.5	94.	0.0	338.	8.20	.170	7.78	89.	4.8	
26.	8.20	.07	.001	26.	28.9	.3	37.	7.3	13.4	1.5	98.	0.0	346.	8.09	.171	9.11	80.	3.0	
31.18																			
STATION 103		MONTH 8		DAY 2		HOUR 21.9		JULIAN DAY 215		LATITUDE 43.750N		LONGITUDE 76.250W							
0.	21.30	.05	.004	28.	27.9	.1	34.	7.3	13.3	1.5	89.	3.0	322.	8.62	.142				3.8
10.	21.30	.05	.020	27.	27.5	.1	34.	7.2	13.3	1.5	89.	2.7	321.	8.62	.151				2.9
20.	20.40	.06		27.	28.1	.1	35.	7.2	13.2	1.5	91.	2.1	327.	8.50	.154				3.1
23.	14.30	.05	.001	27.	28.4	.3	35.	7.2	13.2	1.5	93.	.4	334.	8.29	.156				1.7
27.48																			
STATION 105		MONTH 8		DAY 2		HOUR 23.9		JULIAN DAY 215		LATITUDE 43.550N		LONGITUDE 76.300W							
0.	21.20	.07	.004	26.	28.0	.1	34.	7.2	13.8	1.5	88.	3.4	330.	8.60	.145				4.5
8.	21.80	.07		27.	27.7	.1	34.	7.2	13.4	1.5	88.	3.1	330.	8.60	.151				4.1
15.	16.65	.07	.003	27.	28.0	.1	35.	7.2	13.3	1.4	90.	1.2	332.	8.45	.158				4.4
21.08																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7220

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L	P.ALK MG/L	SPEC. COND.	PH	EM VOLTS	DO MG/L	DO PCT.	TOT. SUSP. SAT.	TOTAL COLI MATR	TOTAL 100ML
M	C	N	P								CAC03	CAC03	MICRO-MHOS							MG/L
STATION 1 MONTH 9 DAY 12 HOUR .1 JULIAN DAY 256 LATITUDE 43.380N LONGITUDE 79.680W																				
0.	18.35	.10	.002	26.	28.3	.1	36.	7.1	13.4	1.5	92.	4.0	347.	8.63	.108					4.0
10.	18.10	.10	.001	26.	28.3	.2	37.	7.2	13.4	1.5	92.	2.0	350.	8.36	.117					2.7
20.	8.50	.14	.001	27.	27.9	.2	38.	7.2	13.3	1.5	95.	0.0	359.	7.98	.132					2.3
30.	5.80	.10	.005	27.	27.5	.2	39.	7.2	13.4	1.5	99.	0.0	360.	7.93	.125					3.4
40.	5.10	.15	.001	27.	27.4	.5	39.	7.2		1.5	98.	0.0	360.	7.98	.123					2.9
45.7B																				
STATION 2 MONTH 9 DAY 11 HOUR 23.4 JULIAN DAY 255 LATITUDE 43.260N LONGITUDE 79.640W																				
0.	18.50	.06	.001	26.	27.6	.3	36.	7.2	13.7	1.5	91.	4.5	338.	8.67	.112	9.16				4.0
10.	18.40	.05	.001	27.	27.7	.3	36.	7.2	13.6	1.5	90.	4.0	339.	8.57	.110	9.01				4.3
16.	13.10	.16	.001	26.	27.9	.3	37.	7.2	13.4	1.5	91.	0.0	343.	8.20	.118	7.76				2.5
20.1B																				
STATION 3 MONTH 9 DAY 11 HOUR 22.4 JULIAN DAY 255 LATITUDE 43.220N LONGITUDE 79.420W																				
0.	18.50	.10	.003	26.	27.6	.2	36.	7.1	13.6	1.5	90.	3.5	338.	8.58	.108					4.1
10.	18.35	.08	.003	26.	27.8	.2	36.	7.2	13.6	1.5	90.	2.2	343.	8.38	.107					2.4
15.	15.10	.05	.005	26.	28.0	.3	37.	7.1	13.6	1.5	91.	2.7	344.	8.42	.106					3.2
20.1B																				
STATION 5 MONTH 9 DAY 12 HOUR 2.2 JULIAN DAY 256 LATITUDE 43.360N LONGITUDE 79.480W																				
0.	18.50	.06	.002	25.	26.9	.1	36.	7.2	13.3	1.4	91.	3.2	338.	8.60	.106					3.4
10.	18.50	.11	.002	26.	27.5	.1	37.	7.2	13.3	1.4	93.	0.0	350.	8.04	.121					2.6
20.	5.90	.16	.002	27.	27.7	.1	38.	7.2	13.3	1.5	95.	0.0	356.	7.91	.118					1.1
30.	4.70	.14	.003	27.	28.2	.4	39.	7.2	13.3	1.5	97.	0.0	356.	7.92	.123					1.1
50.	4.00	.06	.005	27.	28.2	.6	38.	7.2	13.4	1.5	96.	0.0	357.	7.92	.102					2.1
85.	3.90	.03	.006	26.	27.9	.7	39.	7.3	13.5	1.5	97.	0.0	358.	7.98	.117					2.4
96.9B																				
STATION 7 MONTH 9 DAY 12 HOUR 1.1 JULIAN DAY 256 LATITUDE 43.540N LONGITUDE 79.550W																				
0.	16.70	.05	.006	26.	27.6	.2	37.	7.2	14.1	1.5	92.	2.0	349.	8.42	.110	9.01				2.6
10.	14.50	.08	.006	26.	27.7	.3	38.	7.2	14.1	1.5	93.	0.0	353.	8.08	.121	8.36				1.3
20.	8.90	.09	.006	26.	27.9	.3	38.	7.2	13.9	1.5	96.	0.0	355.	7.93	.127	8.56				1.9
23.	8.60	.05	.002	27.	27.9	.3	39.	7.2	14.3	1.4	97.	0.0	358.	7.93	.135	8.86				5.2
27.4B																				
STATION 8 MONTH 9 DAY 12 HOUR 4.4 JULIAN DAY 256 LATITUDE 43.600N LONGITUDE 79.350W																				
0.	16.50	.01	.002	26.	27.9	.1	36.	7.2	14.2	1.4	92.	2.5	348.	8.48	.093					6.4
10.	13.50	.11	.002	26.	27.9	.2	38.	7.2	13.9	1.4	93.	0.0	355.	8.07	.070					5.3
20.	9.20	.16	.002	27.	28.0	.2	38.	7.2	13.9	1.4	95.	0.0	360.	7.90	.091					2.2
30.	5.40	.12	.003	27.	27.5	.3	39.	7.2	14.0	1.4	95.	0.0	360.	7.93	.081					2.2
50.	4.45	.07	.004	27.	27.6	.4	39.	7.2	13.9	1.4	96.	0.0	360.	7.97	.073					2.6
65.	4.10	.10	.004	27.	27.4	.4	39.	7.2	13.9	1.4	96.	0.0	359.	7.98	.037					3.6
75.0B																				
STATION 10 MONTH 9 DAY 12 HOUR 3.2 JULIAN DAY 256 LATITUDE 43.420N LONGITUDE 79.280W																				
0.	19.20	.10	.002	27.	26.9	.1	36.	7.2	13.6	1.4	92.	2.2	337.	8.47	.086					3.4
10.	19.20	.07	.003	27.	26.8	.1	36.	7.2	13.6	1.4	90.	3.5	336.	8.56	.091					3.5
20.	8.20	.18	.003	27.	27.4	.1	38.	7.2	13.7	1.4	95.	0.0	351.	8.03	.110					1.8
40.	4.40	.16	.004	27.	27.4	.2	38.	7.2	13.8	1.4	96.	0.0	355.	8.00	.112					2.2
50.	4.10	.19	.003	27.	27.3	.2	38.	7.2	13.8	1.5	94.	0.0	355.	8.01	.113					2.7
100.	3.80	.12	.003	27.	27.4	.5	39.	7.2	13.8	1.5					.999					2.6
113.	3.80	.12	.004	27.	27.2	.9	39.	7.3	13.8	1.5	100.	0.0	359.	8.02	.102					4.0
122.5B																				
STATION 12 MONTH 9 DAY 11 HOUR 21.5 JULIAN DAY 255 LATITUDE 43.260N LONGITUDE 79.220W																				
0.	19.10	.03	.005	27.	26.4	.1	36.	7.2	13.4	1.5	93.	1.3	338.	8.45	.118	8.32	93.			4.8
10.		.05	.005	27.	26.6	.1	36.	7.2	13.4	1.5	95.		340.	8.22	.120	8.18				4.4
18.		.05	.004	27.	27.0	.1	37.	7.2	13.5	1.5	96.	0.0	341.	8.16	.125	8.18				2.0
21.9B																				
STATION 14 MONTH 9 DAY 11 HOUR 19.3 JULIAN DAY 255 LATITUDE 43.290N LONGITUDE 79.000W																				
0.	20.00	.12	.003	26.	26.3	.1	36.	7.1	13.4	1.5	92.	2.9	326.	8.62	.101	8.47	96.			3.5
10.	19.40	.05	.003	26.	26.4	.1	36.	7.2	13.2	1.5	93.	1.6	341.	8.42	.126	8.82	99.			4.6
14.6B																				
STATION 15 MONTH 9 DAY 11 HOUR 19.9 JULIAN DAY 255 LATITUDE 43.400N LONGITUDE 79.010W																				
0.	20.05	.07	.005	27.	26.4	.1	36.	7.2	13.3	1.5	93.	4.2	332.	8.68	.111					4.2
10.	19.85	.05	.002	26.	26.2	.1	36.	7.1	12.5	1.4	93.	3.6	335.	8.50	.094					5.1
20.	10.00	.12	.003	27.	27.5	.1	38.	7.1	13.2	1.5	94.	1.9	351.	8.36	.110					2.4
30.	5.60	.20	.003	27.	27.2	.1	38.	7.1	13.1	1.5	95.	1.2	353.	8.30	.114					1.9
50.	4.15	.19	.004	28.	27.3	.1	38.	7.1	13.1	1.5	96.	0.0	354.	7.94	.120					1.1
96.	3.85	.11	.005	28.	27.3	.9	40.	7.2	13.0	1.5	96.	0.0	360.	7.90	.126					1.1
106.1B																				



LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7220

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T-ALK MG/L CAC03	P-ALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 10CML
=====																			
STATION	19	MONTH	9	DAY	12	HOUR	5.8	JULIAN DAY			256	LATITUDE		43.760N	LONGITUDE		79.120W		
0.	15.85	.12	.002	27.	26.9	.1	37.	7.0	13.3	1.5	95.	2.6	347.	8.42	.115				4.3
10.	12.15	.12	.002	26.	27.5	.2	37.	7.1	12.9	1.5	100.	0.0	356.	8.04	.128				2.9
13.	11.70	.17	.003	26.	27.6	.2	37.	7.1	13.1	1.5	97.	0.0	357.	8.02	.119				2.2
18.3B																			
STATION	20	MONTH	9	DAY	11	HOUR	8.4	JULIAN DAY			255	LATITUDE		43.830N	LONGITUDE		78.850W		
0.	16.90	.04	.002	28.	27.5	.1	36.	7.0	12.8	1.5	88.	2.9	345.	8.45	.119				2.6
10.	15.50	.19	.003	28.	27.6	.1	37.	7.0	12.6	1.5	91.	0.0	354.	8.16	.135				1.7
20.	11.00	.15	.002	28.	27.8	.3	38.	7.0	12.7	1.5	92.	0.0	357.	8.02	.138				2.0
24.	8.80	.15	.001	28.	27.5	.3	38.	7.1	12.7	1.5	92.	0.0	357.	7.99	.141				1.8
29.3B																			
STATION	24	MONTH	9	DAY	12	HOUR	7.1	JULIAN DAY			256	LATITUDE		43.650N	LONGITUDE		78.804W		
0.	17.80	.06	.003	28.	27.2	.1	36.	7.0	12.7	1.5	86.	3.0	338.	8.45	.118	11.39	123.		2.6
10.	16.85	.12	.003	28.	27.4	.1	37.	7.0	12.5	1.5	90.		349.	8.25	.121	10.95	117.		2.2
20.	8.00	.15	.001	27.	27.1	.1	38.	7.1	12.5	1.5	92.	0.0	353.	8.09	.130	10.52	92.		2.2
30.	5.30	.15	.003	28.	27.4	.2	38.	7.1	12.4	1.5	93.	0.0	358.	8.05	.129	10.66	87.		1.8
50.	3.85	.04	.003	28.	27.2	.3	38.	7.1	12.5	1.5	94.	0.0	358.	8.01	.130	9.45	74.		2.0
100.	3.80	.04	.005	28.	27.1	.6	39.	7.2	12.5	1.5	94.	0.0	360.	8.04	.130	8.78	69.		1.3
113.	3.80	.04	.006	29.	27.5	.7	39.	7.2	12.6	1.5	94.	0.0	360.	8.06	.125	8.56	67.		1.1
121.6B																			
STATION	30	MONTH	9	DAY	11	HOUR	18.1	JULIAN DAY			255	LATITUDE		43.360N	LONGITUDE		78.730W		
0.	19.75	.06	.006	25.	26.4	.1	36.	7.0	12.2	1.5	90.	2.8	331.	8.68	.102				4.3
10.	19.40	.07	.004	26.	26.7	.2	36.	7.2	12.5	1.5	91.	1.6	335.	8.49	.101				6.4
20.	9.30	.10	.001	27.	27.4	.2	38.	7.2	12.8	1.5	92.	0.0	351.	7.81	.119				6.1
24.	8.25	.10	.003	27.	27.4	.3	38.	7.2	12.8	1.5	93.	0.0	351.	7.72	.126				4.5
31.1B																			
STATION	31	MONTH	9	DAY	11	HOUR	17.2	JULIAN DAY			255	LATITUDE		43.390N	LONGITUDE		78.500W		
0.	19.80	.05	.002	26.	26.9	.1	36.	7.2	12.6	1.4	92.	3.0	344.	8.75	.112				7.3
10.	19.20	.08	.003	26.	27.1	.2	36.	7.2	12.6	1.4	92.	1.2	348.	8.49	.118				7.7
20.	7.30	.16	.003	27.	27.6	.3	38.	7.2	12.8	1.5	95.	0.0	358.	7.97	.125				4.9
28.	5.80	.16	.004	27.	27.5	.3	39.	7.3	12.9	1.4	97.	0.0	364.	7.92	.129				5.5
34.7B																			
STATION	32	MONTH	9	DAY	11	HOUR	16.1	JULIAN DAY			255	LATITUDE		43.540N	LONGITUDE		78.500W		
0.	19.20	.05	.004	27.	26.9	.1	36.	7.2	12.9	1.5	92.	1.7	342.	8.52	.110	8.63	96.		4.8
10.	18.30	.07	.003	28.	27.1	.1	36.	7.2	12.8	1.5	92.	.9	350.	8.48	.114	10.81	118.		6.6
20.	8.20	.13	.002	28.	27.4	.2	38.	7.2	12.8	1.4	93.	.6	366.	8.39	.120	10.14	89.		4.9
30.	5.35	.13	.004	28.	27.6	.2	38.	7.2	12.7	1.5	94.	0.0	366.	8.10	.122	10.25	84.		3.0
50.	4.20	.09	.005	28.	27.6	.2	38.	7.2	12.8	1.4	96.	0.0	369.	8.06	.122	9.66	76.		3.6
100.	3.85	.10	.005	29.	27.8	.3	38.	7.2	12.8	1.5	96.	0.0	374.	7.99	.125	8.64	68.		4.4
163.	3.80	.09	.006	29.	27.5	.9	39.	7.3	12.8	1.5	97.	0.0	374.	7.89	.126	9.89	77.		4.5
172.8B																			
STATION	35	MONTH	9	DAY	12	HOUR	9.9	JULIAN DAY			256	LATITUDE		43.880N	LONGITUDE		78.500W		
0.	17.00	.12	.003	25.	27.4	.2	37.	7.2	12.8	1.5	101.	1.7	345.	8.31	.123				5.0
10.	11.80	.15	.003	26.	27.4	.3	38.	7.2	13.2	1.5	97.	0.0	350.	8.20	.131				3.6
20.	8.50	.19	.003	26.	27.6	.4	38.	7.2	13.0	1.4	94.	0.0	367.	7.88	.140				5.1
24.7B																			
STATION	36	MONTH	9	DAY	11	HOUR	11.1	JULIAN DAY			255	LATITUDE		43.920N	LONGITUDE		78.240W		
0.	18.20	.06	.002	27.	27.4	.2	36.	7.2	12.8	1.5	92.	2.8	342.	8.43	.118				6.0
10.	13.00	.20	.002	26.	27.5	.3	38.	7.2	13.0	1.5	98.	0.0	353.	8.00	.130				4.6
19.	8.50	.19	.002	27.	27.8	.3	38.	7.2	13.0	1.5	99.	0.0	354.	7.90	.136				4.0
24.7B																			
STATION	40	MONTH	9	DAY	11	HOUR	14.7	JULIAN DAY			255	LATITUDE		43.530N	LONGITUDE		78.210W		
0.	19.65	.08	.003	26.	27.4	.1	35.	7.2	12.8	1.5	91.	2.0	334.	8.52	.114				4.0
10.	18.10	.11	.003	25.	27.4	.1	36.	7.2	12.9	1.4	92.	1.4	335.	8.32	.121				5.5
20.	7.50	.20	.004	25.	27.7	.1	38.	7.3	12.8	1.4	93.	0.0	350.	8.10	.133				4.0
30.	5.40	.14	.004	27.	27.7	.1	38.	7.3	12.9	1.4	93.	0.0	351.	8.11	.136				4.4
50.	4.35	.13	.004	27.	27.6	.2	38.	7.3	12.9	1.5	98.	0.0	354.	8.13	.135				4.3
100.	3.90	.06	.005	27.	27.7	.3	38.	7.3	13.0	1.4	99.	0.0	355.	8.15	.135				5.3
168.	3.75	.06	.005	27.	27.9	.7	39.	7.4	13.0	1.5	100.		355.	8.21	.138				4.5
177.4B																			
STATION	41	MONTH	9	DAY	11	HOUR	13.6	JULIAN DAY			255	LATITUDE		43.390N	LONGITUDE		78.200W		
0.	20.10	.07	.002	25.	26.4	.1	36.	7.3	12.6	1.4	92.	3.6	336.	8.58	.132	8.46	96.		6.2
10.	19.40	.10	.002	26.	26.4		36.	7.3	12.7	1.4	94.	1.1	340.	8.28	.141	8.09	91.		3.7
20.	8.21	.13	.003	26.	27.1	.1	38.	7.3	12.7	1.4	96.	0.0	353.	8.12	.156	8.71	76.		3.8
25.6B																			
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LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7220

SAMPLE DEPTH M	WATER TEMP C	ND3 MG/L N	PD4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	YALK MG/L CAC03	PALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 42 MONTH 9 DAY 11 HOUR 11.5 JULIAN DAY 255 LATITUDE 43.398N LONGITUDE 77.990W																			
0.	19.80	.12	.003	26.	26.6	.1	36.	7.3	12.6	1.5	89.	2.8	336.	8.53	.122				5.1
10.	18.95	.11	.003	25.	26.8	.1	36.	7.3	12.7	1.4	92.		340.	8.23	.128				2.6
20.	9.00	.22	.003	27.	27.1	.2	38.	7.3	12.7	1.5	94.	0.0	351.	8.02	.132				4.6
23.	6.90	.22	.003	27.	27.3	.2	38.	7.3	12.7	1.5	95.	0.0	351.	7.96	.134				2.6
27.48																			
STATION 43 MONTH 9 DAY 11 HOUR 12.5 JULIAN DAY 255 LATITUDE 43.450N LONGITUDE 78.000W																			
0.	19.20	.12	.003	25.	27.1	0.0	35.	7.2	12.7	1.5	89.	2.5	339.	8.49	.105				2.9
10.	18.65	.12	.002	25.	27.1	0.0	36.	7.2	12.6	1.5	89.	1.6	339.	8.39	.112				2.6
20.	8.65	.20	.003	26.	27.3	.1	38.	7.3	12.8	1.5	94.	0.0	348.	8.00	.130				2.6
30.	5.73	.16	.003	26.	27.4	.2	38.	7.3	12.8	1.5	96.	0.0	351.	7.62	.140				2.6
50.	4.18	.13	.004	27.	27.4	.2	38.	7.3	12.7	1.4	95.	0.0	351.	8.00	.139				2.6
100.	3.95	.14	.004	28.	27.6	.3	38.	7.3	12.8	1.5	93.	0.0	360.	8.06	.129				4.0
116.	3.93	.09	.006	28.	27.5	.3	38.	7.3	12.9	1.5	92.	0.0	363.	8.09	.128				2.3
126.28																			
STATION 45 MONTH 9 DAY 12 HOUR 13.8 JULIAN DAY 256 LATITUDE 43.590N LONGITUDE 78.010W																			
0.	19.70	.05	.002	28.	27.3	.1	34.	7.2	12.9	1.4	87.	2.6	333.	8.60	.110	8.30	93.		3.4
10.	18.95	.05	.002	28.	27.1	.1	34.	7.2	12.9	1.4	87.	3.0	334.	8.51	.113	8.45	94.		2.5
20.	8.70	.26	.002	28.	27.3	.1	37.	7.2	12.9	1.4	94.	0.0	349.	8.02	.133	8.54	76.		2.8
30.	5.65	.12	.002	28.	27.6	.2	38.	7.2	13.0	1.4	95.	0.0	350.	8.02	.130	9.34	77.		2.6
50.	4.65	.08	.004	27.	27.6	.3	38.	7.2	13.1	1.4	94.	0.0	353.	8.03	.146	9.98	80.		2.2
100.	3.95	.07	.004	27.	27.7	.3	38.	7.3	13.1	1.4	95.	0.0	354.	8.02	.127	10.21	80.		2.1
170.	3.75	.09	.004	27.	27.6	.8	38.	7.3	13.1	1.4	97.	0.0	359.	8.01	.128	10.11	79.		1.9
180.18																			
STATION 48 MONTH 9 DAY 11 HOUR 12.1 JULIAN DAY 255 LATITUDE 43.930N LONGITUDE 78.050W																			
0.	18.90	.09	.002	27.	27.8	.1	35.	7.2	13.1	1.4	88.	4.0	339.	8.58	.106	8.99	100.		3.8
10.	17.70	.12	.003	28.	27.8	.2	36.	7.2	13.2	1.4	90.	1.0	342.	8.28	.126	8.18	89.		4.1
20.	9.20	.17	.002	28.	28.0	.3	38.	7.2	13.3	1.5	94.	0.0	352.	7.99	.137	8.12	73.		2.5
26.	8.05	.15	.002	28.	28.3	.4	38.	7.2	13.2	1.5	95.	0.0	355.	8.02	.133	8.38	73.		3.1
31.18																			
STATION 49 MONTH 9 DAY 12 HOUR 21.6 JULIAN DAY 256 LATITUDE 43.940N LONGITUDE 77.680W																			
0.	18.70	.10	.003	28.	27.9	.1	35.	7.1	13.2	1.4	82.	2.2	326.	8.78	.110				4.1
10.	18.10	.11	.002	27.	28.1	.3	36.	7.1	13.2	1.4	86.	1.2	336.	8.49	.114				2.7
20.	11.00	.16	.002	28.	28.3	.3	37.	7.2	13.2	1.4	90.	0.0	353.	8.17	.119				3.1
26.	8.90	.16	.002	28.	28.3	.3	37.	7.2	13.1	1.4	92.	0.0	353.	8.03	.128				2.4
29.38																			
STATION 52 MONTH 9 DAY 12 HOUR 20.2 JULIAN DAY 256 LATITUDE 43.830N LONGITUDE 77.690W																			
0.	19.20	.10	.002	28.	27.9	.1	34.	7.1	13.1	1.4	90.	4.1	337.	8.58	.126				4.0
10.	18.75	.15	.002	28.	27.9	.2	36.	7.2	13.2	1.4	93.	1.3	340.	8.31	.129				2.6
20.	7.30	.18	.005	29.	28.0	.3	38.	7.2	13.2	1.4	97.	0.0	355.	8.02	.133				1.9
30.	6.00	.19	.005	29.	27.8	.4	38.	7.2	13.3	1.4	102.	0.0	358.	7.91	.140				2.0
50.	5.15	.15	.005	29.	27.7	.4	38.	7.2	13.2	1.4	102.	0.0	358.	7.93	.139				2.0
73.	4.40	.06	.005	29.	27.7	.4	38.	7.2	13.1	1.4	100.	0.0	355.	8.00	.136				3.2
73.28																			
STATION 54 MONTH 9 DAY 12 HOUR 18.8 JULIAN DAY 256 LATITUDE 43.660N LONGITUDE 77.720W																			
0.	19.55	.10	.003	27.	26.9	.2	36.	7.2	12.9	1.4	89.	3.3	330.	8.66	.115				5.3
10.	19.00	.09	.002	29.	27.2	.2	35.	7.2	13.0	1.4	90.	2.6	341.	8.40	.118				4.6
20.	9.60	.18	.002	28.	27.9	.2	35.	7.2	13.1	1.4	93.		350.	8.23	.120				3.6
30.	6.00	.15	.004	27.	27.8	.3	37.	7.2	13.2	1.5	97.	0.0	350.	8.08	.126				4.1
50.	4.25	.08	.004	28.	27.8	.3	38.	7.2	13.2	1.5	98.	0.0	353.	7.93	.128				3.7
100.	3.90	.07	.005	28.	27.7	.3	38.	7.3	13.2	1.5	99.	0.0	353.	7.85	.128				3.9
138.	3.85	.07	.005	28.	27.9	.7	38.	7.2	13.2	1.5	102.	0.0	353.	7.72	.130				4.0
146.38																			
STATION 56 MONTH 9 DAY 12 HOUR 17.1 JULIAN DAY 256 LATITUDE 43.450N LONGITUDE 77.740W																			
0.	19.75	.07	.002	28.	27.0	.1	36.	7.2	12.7	1.4	89.	3.3	329.	8.36	.092				5.6
10.	18.05	.13	.002	29.	27.0	.2	36.	7.2	12.9	1.4	90.	1.3	333.	8.37	.108				2.3
20.	10.00	.15	.002	28.	27.4	.2	37.	7.2	13.0	1.4	94.	0.0	341.	7.93	.128				2.5
30.	6.10	.15	.002	28.	27.6	.2	37.	7.2	13.2	1.5	94.	0.0	347.	7.88	.128				2.5
50.	4.45	.20	.003	28.	27.5	.3	37.	7.3	13.0	1.5	94.	0.0	348.	7.90	.122				3.1
100.	3.90	.21	.004	28.	27.4	.3	38.	7.3	12.9	1.5	96.	0.0	349.	7.97	.126				3.9
120.	3.85	.10	.006	28.	27.4	.7	38.	7.3	12.9	1.4	95.	0.0	350.	7.97	.127				2.4
133.58																			
STATION 59 MONTH 9 DAY 12 HOUR 16.0 JULIAN DAY 256 LATITUDE 43.360N LONGITUDE 77.750W																			
0.	20.50	.06	.006	28.	26.4	.1	36.	7.2	12.8	1.5	93.	4.5	345.	8.72	.029				2.7
10.	19.70	.07	.006	28.	26.6	.1	36.	7.2	12.8	1.4	94.		349.	8.21	.059				3.0
20.	8.30	.14	.002	29.	27.1	.1	38.	7.2	13.0	1.4	99.	0.0	360.	7.80	.087				3.4
30.	5.35	.17	.002	28.	27.2	.3	38.	7.2	12.8	1.4	99.	0.0	366.	7.72	.091				3.6
36.	5.35	.13	.003	28.	27.3	.3	38.	7.2	12.9	1.5	102.	0.0	370.	7.61	.104				3.7
42.18																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7220

SAMPLE DEPTH	WATER TEMP	NO3	PO4	SO4	CL	SI02	CA	MG	NA	K	T.ALK	P.ALK	SPEC. COND.	PH	EH	DO	DO PCT.	TOT. SUSP.	TOTAL COLI
M	C	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		VOLTS	MG/L	%	MG/L	100ML
		N	P								CAC03	CAC03	MICRO- MHOS				SAT.	MATR	100ML
=====																			
STATION	60	MONTH	9	DAY	14	HOUR	13.8	JULIAN DAY	258	LATITUDE	43.260N	LONGITUDE	77.500W						
0.	19.80	.03	.005	26.	26.9	.1	35.	7.2	12.8	1.6	91.	2.0	8.50	.120	*				5.4
20.4B																			
STATION	64	MONTH	9	DAY	14	HOUR	10.0	JULIAN DAY	258	LATITUDE	43.690N	LONGITUDE	77.500W						
0.	19.10	.04	.003	27.	27.1	0.0	34.	7.2	12.8	1.4	91.	2.4	333.	8.62	.109				4.5
10.	19.10	.04	.003	26.	27.4	0.0	34.	7.2	12.8	1.4	91.	1.4	334.	8.39	.127				5.7
20.	14.00	.11	.003	27.	27.2	0.0	36.	7.2	13.1	1.4	91.	0.0	343.	7.99	.136				5.0
30.	7.50	.03	.003		27.4	.1	37.	7.2	13.2	1.5	93.	0.0	355.	7.92	.136				3.3
50.	4.10	.06	.002	27.	27.7	.1	34.	7.2	13.0	1.4	96.	0.0	355.	7.90	.137				3.7
80.	4.10	.03	.002	27.	27.7	.1	34.	7.2	13.0	1.4	98.	0.0	356.	7.89	.138				3.3
86.0B																			
STATION	66	MONTH	9	DAY	12	HOUR	22.8	JULIAN DAY	256	LATITUDE	43.920N	LONGITUDE	77.430W						
0.	18.60	.06	.001	28.	27.4	.2	35.	7.2	13.3	1.4	88.	3.2	331.	8.50	.108				5.9
10.	16.80	.12	.002	28.	27.5	.3	36.	7.2	13.3	1.5	92.	1.0	343.	8.34	.111				4.7
20.	11.40	.16	.003	28.	27.8	.4	37.	7.2	13.2	1.5	93.	0.0	353.	7.95	.130				4.6
23.8B																			
STATION	67	MONTH	9	DAY	14	HOUR	8.1	JULIAN DAY	258	LATITUDE	43.820N	LONGITUDE	77.250W						
0.	19.10	.07	.006	27.	27.2	0.0	34.	7.2	13.2	1.4	88.	2.9	322.	8.55	.011				3.0
10.	19.06	.06	.003	27.	27.2	.1	34.	7.2	13.2	1.4	88.	.6	327.	8.27	.100				3.5
17.	17.00	.10	.003	28.	27.6	.2	36.	7.2	13.3	1.4	89.	0.0	342.	8.12	.132				4.4
21.9B																			
STATION	69	MONTH	9	DAY	13	HOUR	1.0	JULIAN DAY	257	LATITUDE	43.590N	LONGITUDE	77.250W						
0.	19.50	.09	.003	27.	26.8	0.0	34.	7.2	13.0	1.4	86.	3.2	334.	8.70	.107				3.9
10.	19.25	.10	.003	27.	27.0	0.0	34.	7.2	13.2	1.4	88.	3.0	336.	8.50	.122				2.7
20.	14.50	.13	.006	27.	27.3	.1	37.	7.2	13.2	1.5	91.	0.0	347.	8.05	.134				3.4
30.	8.50	.14	.006	27.	27.3	.1	37.	7.2	13.2	1.5	92.	0.0	352.	8.08	.131				3.7
50.	4.65	.13	.005	27.	27.5	.2	38.	7.3	13.2	1.5	95.	0.0	356.	8.01	.133				2.3
100.	3.90	.14	.004	27.	27.6	.3	38.	7.3	13.1	1.4	96.	0.0	357.	8.02	.129				3.0
143.	3.90	.12	.003	30.	27.5	.8	39.	7.3	13.1	1.5	96.	0.0	358.	8.02	.132				2.5
151.8B																			
STATION	71	MONTH	9	DAY	13	HOUR	2.7	JULIAN DAY	257	LATITUDE	43.390N	LONGITUDE	77.250W						
0.	19.50	.08	.003	27.	26.9	.3	35.	7.2	13.0	1.4	88.	4.5	329.	8.68	.100				4.0
10.	19.00	.09	.003	27.	26.8	.3	36.	7.2	13.3	1.4	88.	3.5	332.	8.47	.112				5.3
20.	11.70	.11	.003	27.	27.0	.3	36.	7.2	13.3	1.4	91.	0.0	344.	8.12	.127				4.3
30.	7.70	.12	.003	28.	27.3	.4	37.	7.2	13.3	1.5	94.	0.0	350.	8.03	.128				3.9
50.	5.10	.14	.003	27.	27.4	.5	38.	7.3	13.1	1.4	95.	0.0	355.	7.93	.132				3.0
100.	3.95	.28	.015	27.	27.4	.6	38.	7.3	13.2	1.5	94.	0.0	356.	7.98	.130				3.7
190.2B																			
STATION	72	MONTH	9	DAY	13	HOUR	3.7	JULIAN DAY	257	LATITUDE	43.306N	LONGITUDE	77.250W						
0.	19.95	.08	.004	27.	26.8	.3	35.	7.2	12.8	1.4	90.	3.3	333.	8.53	.123				9.0
10.	19.85	.13	.003	29.	26.8	.3	35.	7.2	12.8	1.4	90.	3.0	338.	8.40	.104				7.4
20.	10.90	.14	.003	28.	27.1	.3	37.	7.2	12.9	1.4	92.	0.0	350.	8.08	.128				7.9
25.6B																			
STATION	73	MONTH	9	DAY	13	HOUR	4.9	JULIAN DAY	257	LATITUDE	43.300N	LONGITUDE	76.940W						
0.	19.60	.12	.004	29.	26.7	.2	35.	7.2	12.9	1.5	89.	3.5	328.	8.62	.043	8.39	94.		6.0
10.	19.70	.10	.004	27.	26.9	.3	35.	7.2	12.9	1.5	88.	3.2	334.	8.52	.098	8.35	94.		4.5
16.	19.70	.09	.003	27.	27.0	.4	35.	7.2	13.3	1.5	89.	2.5	334.	8.53	.092	8.34	94.		7.8
21.9B																			
STATION	75	MONTH	9	DAY	14	HOUR	4.0	JULIAN DAY	258	LATITUDE	43.490N	LONGITUDE	76.980W						
0.	19.25	.06	.002	27.	27.4	.3	34.	7.2	13.3	1.4	86.	2.7	335.	8.61	.099				5.6
10.	19.30	.11	.003	28.	27.6	.3	34.	7.2	13.3	1.4	86.	2.2	334.	8.54	.108				4.9
19.	13.60	.14	.002	26.	27.7	.3	37.	7.2	13.2	1.4	90.	0.0	346.	8.07	.142				3.8
28.	9.00	.33	.008	27.	27.6	.4	38.	7.2	13.2	1.4	93.	0.0	350.	8.04	.142				3.8
48.	5.14	.19	.003	27.	27.5	.5	38.	7.3	13.2	1.4	93.	0.0	354.	8.02	.148				3.1
95.	4.05	.15	.004	28.	27.7	.6	38.	7.3	13.2	1.5	95.	0.0	354.	8.07	.152				1.3
200.	3.75	.14	.004	28.	27.5	.7	38.	7.3	13.2	1.5	95.	0.0	354.	8.07	.082				2.2
223.1B																			
STATION	77	MONTH	9	DAY	14	HOUR	5.9	JULIAN DAY	258	LATITUDE	43.670N	LONGITUDE	77.010W						
0.	19.50	.05	.005	29.	27.6	.2	34.	7.2	13.3	1.8	87.	3.0	334.	8.60	-.010				5.1
10.	19.40	.16	.005	27.	27.8	.2	37.	7.2	13.1	1.5	92.	0.0	351.	8.03	.073				4.4
20.	12.80	.16	.005	27.	27.8	.2	37.	7.2	13.1	1.4	92.	0.0	353.	7.93	.097				3.6
30.	8.25	.17	.005	27.	28.2	.2	38.	7.2	13.0	1.4	93.	0.0	354.	7.93	.106				3.4
50.	4.70	.24	.009	27.	28.0	.4	38.	7.3	13.0	1.4	93.	0.0	355.	8.05	.117				5.7
100.	4.10	.28	.026	29.	28.3	.8	39.	7.3	13.1	1.5	95.	0.0	361.	7.99	.126				5.4
115.	4.05	.22	.025	28.	28.3	1.1	39.	7.3	13.0	1.5	97.	0.0	363.	7.92	.132	*			4.4
124.4B																			
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LIMNOLOGICAL DATA  
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SAMPLE DEPTH	WATER TEMP	NOS. MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK P.G/L	P.ALK CAC03 MG/L	SPEC. COND. MICRO-MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 78 MONTH 9 DAY 14 HOUR 7.0 JULIAN DAY 258 LATITUDE 43.800N LONGITUDE 77.040W																			
0.	19.60	.06	.002	27. 27.6	.1	34.	7.2	13.2	1.4	86.	2.6	334.	8.52	.120					5.7
10.	19.55	.05	.003	28. 27.8	.2	34.	7.2	13.2	1.5	86.	3.2	340.	8.50	.119					5.1
20.	19.25	.39	.003	27. 27.7	.2	34.	7.2	13.2	1.4	87.	2.6	340.	8.41	.119					4.6
30.	7.15	.18	.002	27. 28.2	.3	38.	7.2	13.3		95.	6.0	355.	7.93	.133					3.7
49.	5.15	.19	.002	27. 28.2	.7	39.	7.3	13.3		96.	0.0	363.	7.91	.143					2.9
58.58																			
STATION 79 MONTH 9 DAY 13 HOUR 12.6 JULIAN DAY 257 LATITUDE 43.890N LONGITUDE 76.900W																			
0.	19.35	.03	.003	27. 27.5	.1	35.	7.2	13.2	1.5	86.	3.5	327.	8.60	.112					3.6
10.	19.35	.06	.003	27. 27.3	.1	35.	7.2	13.3	1.4	86.	3.5	332.	8.53	.130					4.3
17.	19.35	.04	.003	28. 27.6	.1	34.	7.2	13.2	1.4	87.	3.0	337.	8.51	.122					4.1
22.98																			
STATION 83 MONTH 9 DAY 13 HOUR 10.0 JULIAN DAY 257 LATITUDE 43.740N LONGITUDE 76.790W																			
0.	19.50	.08	.003	29. 27.8	.1	34.	7.2	13.3	1.4	86.	4.1	335.	8.59	.121					2.4
7.	19.55	.07	.003	28. 27.7	.2	34.	7.2	13.3	1.4	88.	1.8	335.	8.31	.125					4.1
14.	19.48	.07	.003	28. 27.7	.2	35.	7.2	13.3	1.4	89.	0.0	339.	8.06	.132					2.4
21.	18.50	.08	.002	28. 27.6	.2	37.	7.2	13.2	1.4	91.	0.0	347.	7.89	.149					2.6
35.	7.60	.17	.004	28. 27.9	.3	38.	7.3	13.3	1.5	93.	0.0	358.	7.71	.152					2.4
71.	4.15	.08	.008	29. 27.9	.8	40.	7.3	13.3	1.5	96.	0.0	364.	7.57	.159					3.6
90.	4.10	.09	.008	29. 28.0	.8	39.	7.3	13.3	1.5	97.	0.0	368.	7.40	.168					
137.68																			
STATION 85 MONTH 9 DAY 13 HOUR 8.5 JULIAN DAY 257 LATITUDE 43.600N LONGITUDE 76.680W																			
0.	19.35	.10	.004	29. 27.3	.1	34.	7.2	12.9	1.7	84.	1.8	328.	8.61	.162					5.7
10.	19.45	.08	.002	27. 27.1	.1	34.	7.2	13.1	1.4	86.	1.0	335.	8.49	.158					8.0
20.	14.00	.10	.002	29. 27.3	.2	35.	7.2	13.3	1.4	89.	0.0	338.	8.16	.142					5.7
29.	8.15	.17	.004	29. 27.5	.3	38.	7.2	13.3	1.4	95.	0.0	349.	7.97	.135					5.4
49.	4.62	.14	.004	29. 27.6	.3	38.	7.2	13.2	1.4	96.	0.0	351.	7.94	.135					6.3
98.	3.95	.12	.005	29. 27.6	.4	38.	7.2	13.3	1.5	97.	0.0	353.	7.87	.135					5.3
170.	3.85	.11	.005	29. 27.6	.8	39.	7.3	13.4	1.4	98.	0.0	357.	7.73	.135					4.4
188.18																			
STATION 89 MONTH 9 DAY 13 HOUR 5.9 JULIAN DAY 257 LATITUDE 43.420N LONGITUDE 76.750W																			
0.	19.75	.08	.005	27. 26.6	.1	35.	7.2	13.2	1.4	89.	3.2	332.	8.63	.094					4.1
10.	19.80	.05	.003	27. 26.7	.1	35.	7.2	13.2	1.4	89.	3.0	333.	8.52	.121					3.5
20.	19.70	.07	.003	28. 26.7	.2	35.	7.2	12.9	1.4	90.	1.0	338.	8.31	.113					3.1
30.	8.40	.22	.008	28. 27.1	.3	37.	7.2	13.0	1.4	94.	0.0	349.	7.91	.131					3.4
50.	4.20	.23	.009	27. 27.4	.5	38.	7.3	13.1	1.4	96.	0.0	358.	7.90	.140					4.0
73.	4.10	.09	.006	27. 27.4	.5	39.	7.3	13.1	1.4	96.	0.0	359.	7.96	.146					3.2
75.08																			
STATION 90 MONTH 9 DAY 14 HOUR 1.5 JULIAN DAY 258 LATITUDE 43.470N LONGITUDE 76.570W																			
0.	19.80	.08	.002	28. 28.0	.1	34.	7.2	13.4	1.4	88.	2.5	336.	8.61	.114					3.8
10.	19.85	.05	.002	28. 27.8	.1	34.	7.2	13.3	1.4	88.	3.0	336.	8.60	.122					3.2
17.	19.85	.10	.002	29. 27.9	.2	35.	7.2	13.3	1.4	88.	3.0	337.	8.57	.123					2.9
22.98																			
STATION 92 MONTH 9 DAY 13 HOUR 23.4 JULIAN DAY 257 LATITUDE 43.670N LONGITUDE 76.380W																			
0.	19.40	.07	.002	28. 27.2	.1	34.	7.2	13.3	1.4	86.	4.2	334.	8.51	.129					3.4
10.	19.40	.09	.002	28. 27.4	.1	34.	7.2	13.3	1.4	88.	.6	336.	8.28	.130					3.3
20.	13.70	.14	.003	29. 27.5	.2	36.	7.2	13.2	1.5	89.	0.0	348.	7.96	.132					6.5
30.	5.60	.20	.003	28. 27.6	.2	38.	7.3	13.2	1.5	90.	0.0	356.	7.97	.134					6.6
50.	4.10	.21	.004	28. 27.5	.4	38.	7.3	12.9	1.5	95.	0.0	357.	7.95	.134					6.3
63.	4.15	.18	.007	28. 27.8	.5	38.	7.3	12.9	1.5	98.	0.0	358.	7.95	.135					5.8
73.28																			
STATION 94 MONTH 9 DAY 13 HOUR 21.2 JULIAN DAY 257 LATITUDE 43.840N LONGITUDE 76.510W																			
0.	19.70	.08	.002	28. 27.6	.1	34.	7.2	13.2	1.5	86.	3.7	331.	8.61	.122					8.3
10.	19.70	.07	.003	28. 27.7	.1	34.	7.2	13.2	1.5	88.	2.9	333.	8.52	.126					6.9
20.	19.40	.05	.002	28. 27.7	.2	35.	7.2	13.2	1.5	90.	2.1	338.	8.32	.130					5.6
30.	8.40	.14	.003	28. 28.0	.4	38.	7.3	13.0	1.5	94.	0.0	351.	8.17	.138					7.9
35.	7.35	.14	.003	28. 28.1	.6	38.	7.3	13.0	1.5	96.	0.0	355.	7.90	.141					8.7
40.28																			
STATION 95 MONTH 9 DAY 13 HOUR 13.8 JULIAN DAY 257 LATITUDE 43.900N LONGITUDE 76.710W																			
0.	19.05	.09	.003	28. 27.7	.1	34.	7.2	12.9	1.5	87.	3.0	336.	8.59	.061					9.1
10.	19.05	.04	.003	28. 27.8	.1	35.	7.2	12.9	1.5	87.	2.8	338.	8.54	.103					6.9
20.	17.50	.05	.004	28. 28.1	.3	36.	7.2	12.9	1.4	89.	0.0	344.	8.18	.123					6.9
27.	9.85	.07	.004	28. 28.4	.9	38.	7.3	12.9	1.4	95.	0.0	356.	7.88	.130					7.2
32.08																			
STATION 96 MONTH 9 DAY 13 HOUR 14.6 JULIAN DAY 257 LATITUDE 43.980N LONGITUDE 76.680W																			
0.	19.40	.33	.002	29. 27.0	.1	34.	7.2	13.0	1.4	87.	4.0	333.	8.66	.104					7.7
10.	19.45	.07	.002	29. 27.1	.2	34.	7.2	13.2	1.4	86.	3.2	333.	8.58	.112					8.0
20.	14.80	.24	.003	28. 27.7	.5	37.	7.2	13.2	1.4	91.	0.0	352.	7.88	.137					6.2
34.	7.10	.07	.008	28. 27.9	.9	39.	7.3	13.2	1.4	97.	0.0	364.	7.80	.146					7.3
38.48																			

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SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. TOTAL SUSP COLI MATR 100ML MG/L	
STATION 97	MONTH 9	DAY 13	HOUR 15.3	JULIAN DAY 257		LATITUDE 44.010N		LONGITUDE 76.800W											
0.	19.50	.10	.002	28.	27.8	.2	34.	7.1	13.2	1.4	86.	2.5	332.	8.60	.100			6.4	
10.	19.50	.06	.002	28.	27.8	.2	35.	7.2	13.3	1.4	87.	2.5	333.	8.52	.120			6.4	
20.	14.50	.09	.003	28.	28.0	.3	36.	7.2	13.2	1.4	88.	0.0	339.	8.18	.129			4.6	
27.	9.65	.07	.005	28.	28.4	1.2	40.	7.2	13.1	1.5	97.	0.0	362.	7.80	.138			5.3	
31.18																			
STATION 98	MONTH 9	DAY 13	HOUR 16.4	JULIAN DAY 257		LATITUDE 44.080N		LONGITUDE 76.600W											
0.	19.70	.07	.007	27.	27.7	.1	35.	7.1	12.9	1.5	85.	4.0	328.	8.65	.105			6.8	
10.	19.70	.07	.003	26.	27.9	.1	35.	7.1	12.7	1.5	84.	2.4	330.	8.52	.122			6.2	
20.	19.40	.07	.003	26.	27.9	.3	36.	7.2	12.7	1.5	88.	1.0	336.	8.27	.129			6.0	
30.	10.25	.19	.007	27.	28.3	.9	38.	7.2	12.8	1.5	95.	0.0	355.	7.83	.144			5.8	
35.78																			
STATION 99	MONTH 9	DAY 13	HOUR 17.5	JULIAN DAY 257		LATITUDE 44.000N		LONGITUDE 76.480W											
0.	19.50	.08	.001	27.	27.6	.1	35.	7.2	12.8	1.5	86.	3.0	333.	8.60	.108			6.5	
10.	19.55	.07	.005	27.	27.7	.1	34.	7.2	12.8	1.5	86.	2.8	332.	8.56	.123			8.0	
21.	16.50	.13	.009	26.	27.9	.3	36.	7.2	12.7	1.5	87.	0.0	340.	8.20	.140			8.0	
32.08																			
STATION 101	MONTH 9	DAY 13	HOUR 18.7	JULIAN DAY 257		LATITUDE 43.900N		LONGITUDE 76.280W											
0.	19.90	.07	.002	26.	26.9	.1	34.	7.0	12.5	1.4	84.	3.1	330.	8.64	.031			7.7	
10.	19.90	.07	.004	26.	27.1	.1	34.	7.0	12.5	1.5	86.	2.9	330.	8.60	.055			6.1	
20.	19.85	.09	.002	27.	27.3	.1	34.	7.0	12.4	1.5	89.	2.6	332.	8.56	.071			4.7	
25.	19.25	.08	.002	27.	27.1	.3	34.	7.0	12.5	1.5	92.	2.0	333.	8.40	.090			5.9	
29.38																			
STATION 103	MONTH 9	DAY 13	HOUR 22.3	JULIAN DAY 257		LATITUDE 43.750N		LONGITUDE 76.250W											
0.	19.80	.09	.005	27.	27.4	.1	34.	7.2	12.8	1.5	89.	3.1	337.	8.52	.121			5.3	
10.	19.80	.08	.004	27.	27.6	.1	35.	7.2	12.5	1.5	92.	3.7	337.	8.58	.120			5.2	
20.	19.50	.07	.003	28.	27.4	.1	34.	7.2	12.2	1.5	95.	4.0	337.	8.60	.120			3.3	
23.88																			
STATION 105	MONTH 9	DAY 14	HOUR .2	JULIAN DAY 258		LATITUDE 43.550N		LONGITUDE 76.300W											
0.	19.90	.08	.004	26.	27.9	.1	35.	7.2	12.7	1.5	90.	3.9	338.	8.60	.119			3.9	
10.	19.90	.08	.004	27.	27.9	.1	35.	7.2	12.6	1.5	94.	4.3	338.	8.59	.119			5.8	
20.	19.90	.09	.003	27.	27.9	.1	36.	7.2	12.4	1.5	96.	5.0	339.	8.59	.118			4.7	
24.78																			

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STATION 1	MONTH 10	DAY 19	HOUR 6.7	JULIAN DAY 293		LATITUDE 43.380N		LONGITUDE 79.680W											
0.	5.10	.18	.013	26.	28.7	.8	38.	7.7	12.7	1.5	101.	0.0	365.	8.60	.149			2.3	
10.	4.75	.20	.012	26.	28.7	.6	38.	7.8	12.8	1.5	101.	0.0	367.	7.91	.150			1.7	
20.	4.55	.17	.016	26.	28.7	.6	38.	7.8	12.6	1.5	102.	0.0	367.	7.89	.155			1.5	
40.	4.50	.19	.018	26.	28.7	.7	38.	7.7	12.6	1.5	102.	0.0	367.	7.86	.156			1.7	
45.78																			
STATION 2	MONTH 10	DAY 19	HOUR 6.0	JULIAN DAY 293		LATITUDE 43.260N		LONGITUDE 79.640W											
0.	9.80	.10	.006	26.	29.1	.5	37.	7.7	12.7	1.5	100.	1.0	353.	8.31	.140			2.0	
10.	9.65	.11	.007	26.	29.1	.5	37.	7.7	12.6	1.5	101.		353.	8.21	.147			1.7	
15.	6.75	.16	.010	25.	28.9	.5	38.	7.7	12.6	1.5	102.	0.0	356.	8.05	.152			2.2	
20.18																			
STATION 3	MONTH 10	DAY 19	HOUR 5.2	JULIAN DAY 293		LATITUDE 43.220N		LONGITUDE 79.420W											
0.	10.50	.14	.001	26.	28.1	.3	36.	7.6	12.6	1.5	98.	1.1	354.	8.32	.139			.7	
10.	10.75	.15	.001	26.	28.5	.2	36.	7.6	12.6	1.5	98.	1.1	350.	8.30	.143			1.3	
17.	10.70	.16	.001	26.	28.8	.3	37.	7.7	12.5	1.5	99.	.6	353.	8.27	.147			1.9	
21.98																			
STATION 5	MONTH 10	DAY 19	HOUR 8.8	JULIAN DAY 293		LATITUDE 43.360N		LONGITUDE 79.480W											
0.	4.80	.20	.014	25.	28.4	.5	38.	7.7	12.5	1.5	100.	0.0	361.	8.02	.139			.9	
10.	4.75	.29	.016	25.	28.9	.5	38.	7.7	12.5	1.6	101.	0.0	360.	7.91	.152			.6	
20.	4.75	.19	.014	25.	28.8	.5	38.	7.8	12.5	1.5	101.	0.0	360.	7.84	.161			.9	
29.	4.75	.19	.014	25.	29.0	.6	38.	7.8	12.5	1.5	102.	0.0	360.	7.80	.161			1.5	
48.	4.50	.16	.015	26.	28.9	.6	38.	7.8	12.5	1.5	101.	0.0	361.	7.77	.163			1.1	
86.	4.15	.35	.018	26.	28.9	.6	39.	7.8	12.4	1.5	101.	0.0	361.	7.72	.165			2.0	
95.18																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7225

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T-ALK MG/L CAC03	P-ALK MG/L CAC03	SPEC. COND. MICRO- MHDS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MG/L	TOTAL COLI 100ML	
STATION 7	MONTH 10	DAY 19	HOUR 7.8	JULIAN DAY 293				LATITUDE 43.540N		LONGITUDE 79.550W										
0.	4.90	.23	.015	24.	29.2	.6	38.	7.8	12.5	1.5	101.	0.0	354.	8.09	.148			1.7		
10.	4.85	.24	.016	24.	29.4	.7	38.	7.7	12.5	1.5	101.	0.0	354.	7.96	.157			1.3		
20.	4.85	.25	.014	24.	29.0	.6	38.	7.7	12.5	1.5	102.	0.0	359.	7.85	.161			1.5		
23.8B																				
STATION 8	MONTH 10	DAY 19	HOUR 11.0	JULIAN DAY 293				LATITUDE 43.600N		LONGITUDE 79.350W										
0.	5.00	.23	.015	26.	29.0	.6	39.	7.8	12.5	1.5	98.	0.0	358.	7.70	.153			2.6		
10.	5.00	.19	.012	25.	29.1	.5	39.	7.7	12.8	1.5	99.	0.0	360.	7.39	.166			2.5		
20.	4.95	.20	.012	25.	29.1	.5	39.	7.7	12.6	1.5	100.	0.0	361.	7.22	.170			2.3		
30.	4.95	.19	.005	24.	29.2	.5	38.	7.7	12.6	1.5	101.	0.0	361.	7.20	.174			2.8		
49.	4.90	.19	.006	24.	29.2	.5	39.	7.7	12.6	1.5	102.	0.0	361.	7.38	.169			3.4		
69.	4.75	.14	.016	24.	29.1	.6	39.	7.6	12.6	1.5	102.	0.0	359.	7.42	.166			2.8		
78.6B																				
STATION 10	MONTH 10	DAY 19	HOUR 9.9	JULIAN DAY 293				LATITUDE 43.420N		LONGITUDE 79.280W										
0.	9.00	.20	.004	24.	28.9	.2	37.	7.6	12.6	1.5	96.	0.0	349.	8.12	.146			3.7		
10.	8.50	.23	.004	26.	29.0	.3	38.	7.6	12.6	1.5	97.	0.0	349.	7.93	.159			2.1		
20.	8.40	.22	.001	24.	29.2	.4	38.	7.6	12.6	1.5	97.	0.0	350.	7.80	.162			2.0		
29.	8.30	.19	.001	24.	29.1	.5	38.	7.6	12.7	1.5	99.	0.0	352.	7.80	.164			1.9		
48.	6.25	.26	.011	24.	29.2	.3	38.	7.6	12.5	1.5	100.	0.0	356.	7.72	.169			2.0		
97.	3.90	.33	.021	24.	29.2	.8	38.	7.6	12.6	1.5	101.	0.0	360.	7.31	.169			1.5		
108.	3.85	.32	.021	25.	29.2	.9	38.	7.6	12.5	1.5	103.	0.0	361.	7.20	.170			3.0		
120.7B																				
STATION 12	MONTH 10	DAY 19	HOUR 4.5	JULIAN DAY 293				LATITUDE 43.260N		LONGITUDE 79.220W										
0.	11.00	.15	.002	24.	28.8	.3	38.	7.5	12.8	1.5	99.		344.	8.24	.140			3.6		
10.	10.90	.19	.002	23.	28.8	.2	37.	7.5	12.6	1.5	98.		344.	8.22	.142			3.6		
20.	10.85	.15	.002	26.	29.0	.3	36.	7.6	12.7	1.5	98.	0.0	345.	8.20	.142			4.5		
23.8B																				
STATION 14	MONTH 10	DAY 19	HOUR 2.7	JULIAN DAY 293				LATITUDE 43.290N		LONGITUDE 79.000W										
0.	11.25	.14	.002	25.	27.9	.3	36.	7.7	12.4	1.5	100.	1.5	340.	8.32	.134			3.4		
4.	11.20	.12	.002	24.	28.0	.4	36.	7.7	12.5	1.5	100.	1.0	341.	8.28	.136			4.0		
8.	11.20	.13	.002	25.	27.8	.3	38.	7.6	12.5	1.5	100.	1.2	343.	8.30	.139			3.8		
14.6B																				
STATION 15	MONTH 10	DAY 19	HOUR 3.4	JULIAN DAY 293				LATITUDE 43.400N		LONGITUDE 79.010W										
0.	11.00	.21	.003	25.	29.6	.2	38.	7.6	13.1	2.0	98.	0.0	349.	8.20	.138			4.4		
10.	11.00	.15	.003	25.	29.1	.3	37.	7.5	12.5	1.5	98.		348.	8.21	.140			5.9		
19.	10.90	.17	.003	27.	29.2	.3	37.	7.6	12.7	1.5	98.	0.0	348.	8.20	.140			3.3		
28.	10.60	.17	.003	26.	28.8	.3	37.	7.6	12.6	1.5	99.		348.	8.23	.138			3.2		
47.	9.00	.19	.003	26.	28.7	.3	38.	7.6	12.6	1.5	99.	0.0	348.	8.20	.143			2.2		
95.	3.85	.21	.005	26.	28.6	.4	38.	7.6	12.7	1.5	99.	0.0	349.	8.15	.146			2.4		
104.2B																				
STATION 19	MONTH 10	DAY 19	HOUR 12.5	JULIAN DAY 293				LATITUDE 43.760N		LONGITUDE 79.120W										
0.	5.20	.21	.020	28.	29.5	.7	39.	7.7	13.0	1.5	100.	0.0	355.	7.99	.145			1.9		
7.	5.15	.22	.018	27.	29.5	.6	38.	7.7	13.0	1.5	100.	0.0	356.	7.89	.160			3.4		
13.	4.85	.17	.021	30.	29.7	.7	39.	7.6	13.0	1.5			356.	7.85	.162			2.8		
18.3B																				
STATION 20	MONTH 10	DAY 19	HOUR 15.3	JULIAN DAY 293				LATITUDE 43.830N		LONGITUDE 78.850W										
0.	5.30	.23	.005	26.	28.8	.7	38.	7.5	12.7	1.5	98.	0.0	356.	7.97	.149			1.7		
10.	5.25	.19	.002	26.	29.2	.6	38.	7.6	12.8	1.5	99.	0.0	356.	7.87	.170			2.7		
19.	5.10	.17	.009	27.	29.2	.6	38.	7.5	12.6	1.5	99.	0.0	356.	7.81	.172			2.2		
24.	5.10	.09	.003	27.	29.0	.6	38.	7.5	12.6	1.5	101.	0.0	356.	7.73	.178			2.8		
29.3B																				
STATION 24	MONTH 10	DAY 19	HOUR 14.1	JULIAN DAY 293				LATITUDE 43.650N		LONGITUDE 78.800W										
0.	9.10	.14	.002	26.	29.3	.3	37.	7.5	12.5	1.5	97.	0.0	349.	8.10	.142			3.1		
10.	8.80	.09	.003	26.	29.1	.2	36.	7.5	12.5	1.5	97.	0.0	350.	8.10	.151			3.2		
19.	8.75	.09	.003	26.	28.8	.2	37.	7.4	12.6	1.5	97.	0.0	349.	8.09	.153			3.0		
29.	8.65	.10	.003	26.	28.9	.2	37.	7.5	12.6	1.5	98.	0.0	349.	8.09	.153			3.0		
48.	4.40	.14	.003	27.	28.8	.6	38.	7.5	12.6	1.5	99.	0.0	353.	7.92	.158			4.0		
97.	3.90	.17	.018	28.	28.8	.6	38.	7.5	12.5	1.5	99.	0.0	355.	7.88	.166			3.6		
110.	3.90	.22	.019	27.	28.6	.7	38.	7.5	12.6	1.5	99.	0.0	357.	7.88	.161			4.8		
122.5B																				
STATION 30	MONTH 10	DAY 19	HOUR 1.3	JULIAN DAY 293				LATITUDE 43.360N		LONGITUDE 79.730W										
0.	10.90	.09	.003	25.	28.9	.3	36.	7.5	12.6	1.5	100.		345.	8.26	.136			4.5		
10.	10.90	.10	.002	25.	29.1	.3	36.	7.5	12.6	1.5	100.		347.	8.22	.139			4.3		
20.	10.80	.09	.001	26.	28.9	.2	37.	7.6	12.7	1.5	99.	0.0	347.	8.20	.142			1.8		
28.	10.80	.11	.002	26.	29.1	.2	38.	7.5	12.6	1.5			347.	8.20	.143			1.5		
31.1B																				

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7225

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MO/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO-MHOS	PH VOLTS	EM MG/L	DO MG/L	OD PCT. SAT.	TOT. SUSP. MATR MG/L	TOT. COLI 100ML	
=====																				
STATION 31	MONTH 10	DAY 19	HOOR .2	JULIAN DAY 293	LATITUDE 43.390N	LONGITUDE 78.500W														
0.	11.70	.19	.001	27.	29.1	.2	38.	7.5	12.7	1.5	100.	346.	8.21	.142					3.0	
10.	11.60	.06	.001	26.	29.1	.2	37.	7.6	12.6	1.5	100.	346.	8.21	.140					2.9	
19.	11.60	.09	.001	26.	29.0	.2	37.	7.6	12.8	1.5	100.	346.	8.21	.140					3.2	
33.	11.60	.13	.002	26.	28.8	.2	37.	7.6	12.7	1.5	99.	345.	8.21	.141					2.9	
38.4B																				
STATION 32	MONTH 10	DAY 18	HOOR 23.1	JULIAN DAY 292	LATITUDE 43.540N	LONGITUDE 78.500W														
0.	6.90	.05	.001	28.	29.0	.3	38.	7.6	12.7	1.5	99.	0.0	350.	8.18	.148					2.6
10.	6.80	.18	.008	26.	29.1	.4	37.	7.6	12.9	1.5	99.	0.0	351.	8.15	.151					2.0
19.	6.50	.19	.007	26.	29.3	.4	37.	7.5	12.8	1.5	100.	0.0	351.	8.12	.153					2.6
28.	6.50	.15	.006	25.	29.3	.3	37.	7.6	12.8	1.5	99.	0.0	350.	8.12	.152					1.9
47.	6.45	.13	.003	28.	29.3	.3	37.	7.6	12.8	1.5	99.	0.0	352.	8.11	.152					2.0
94.	5.00	.15	.003	27.	29.4	.3	38.	7.6	12.9	1.5	100.	0.0	352.	8.10	.153					2.8
155.	3.75	.23	.018	27.	29.6	.8	38.	7.6	12.9	1.5	100.	0.0	354.	7.99	.152					1.8
173.7B																				
STATION 34	MONTH 10	DAY 19	HOOR 17.8	JULIAN DAY 293	LATITUDE 43.750N	LONGITUDE 78.500W														
0.	4.40	.13	.006	27.	29.5	.5	38.	7.6	12.8	1.5	99.	0.0	352.	7.58	.208					2.1
10.	4.35	.11	.016	27.	29.5	.4	37.	7.5	12.8	1.5	101.	0.0	354.	7.82	.195					2.0
19.	4.35	.14	.017	27.	29.4	.5	38.	7.5	12.8	1.5	101.	0.0	357.	7.90	.188					1.8
29.	4.35	.13	.017	27.	29.2	.4	38.	7.5	12.6	1.5	102.	0.0	359.	7.96	.186					2.2
48.	4.30	.25	.018	27.	29.3	.5	38.	7.5	12.8	1.5	103.	0.0	359.	8.02	.182					2.0
84.	4.25	.25	.017	27.	29.4	.4	38.	7.5	12.7	1.5	104.	0.0	360.	8.01	.182					1.5
96.9B																				
STATION 35	MONTH 10	DAY 19	HOOR 16.8	JULIAN DAY 293	LATITUDE 43.880N	LONGITUDE 78.500W														
0.	5.20	.18	.015	27.	29.3	.5	38.	7.6	12.9	1.5	100.	0.0	355.	7.20	.204					1.3
10.	5.15	.16	.012	31.	29.4	.6	38.	7.7	13.0	1.5	101.	0.0	357.	7.26	.208					1.6
22.	5.00	.26	.015	31.	29.2	.6	38.	7.7	12.9	1.5	101.	0.0	357.	7.34	.201					.9
25.6B																				
STATION 36	MONTH 10	DAY 18	HOOR 18.5	JULIAN DAY 292	LATITUDE 43.920N	LONGITUDE 78.240W														
0.	5.70	.29	.014	31.	29.7	.6	38.	7.7	13.0	1.5	101.	0.0	363.	7.62	.159					1.8
10.	5.60	.22	.014	30.	29.7	.7	38.	7.7	13.0	1.5	101.	0.0	359.	7.77	.153					2.0
24.	5.50	.13	.004	33.	29.9	.6	38.	7.7	13.0	1.6	102.	0.0	361.	7.82	.156					3.3
29.3B																				
STATION 38	MONTH 10	DAY 18	HOOR 19.6	JULIAN DAY 292	LATITUDE 43.760N	LONGITUDE 78.230W														
0.	4.90	.24	.013	31.	29.7	.6	38.	7.7	13.1	1.5	103.	0.0	357.	8.09	.139					1.5
10.	4.85	.16	.003	30.	29.6	.5	38.	7.7	13.0	1.5	104.	0.0	357.	7.98	.157					1.4
19.	4.75	.20	.013	30.	29.5	.6	38.	7.7	13.0	1.5	103.	0.0	358.	7.97	.153					1.1
29.	4.75	.22	.016	31.	29.7	.6	38.	7.7	13.0	1.6	103.	0.0	358.	7.79	.153					1.1
47.	4.65	.20	.003	31.	29.6	.6	38.	7.7	13.0	1.5	104.	0.0	358.	7.75	.154					1.3
93.	3.90	.18	.003	30.	29.7	.6	38.	7.7	13.0	1.5	105.	0.0	359.	7.65	.155					1.1
106.0B																				
STATION 40	MONTH 10	DAY 18	HOOR 21.8	JULIAN DAY 292	LATITUDE 43.530N	LONGITUDE 78.210W														
0.	9.90	.10	.001	30.	29.2	.3	36.	7.6	13.0	1.5	96.	.9	345.	8.29	.128					1.5
10.	9.90	.13	.001	30.	28.9	.3	36.	7.6	12.9	1.5	97.	0.0	346.	8.16	.150					1.3
19.	9.80	.10	.002	30.	29.0	.3	36.	7.7	12.9	1.5	97.	0.0	346.	8.15	.151					1.4
29.	9.50	.13	.002	30.	29.1	.3	36.	7.7	13.0	1.5	97.	0.0	346.	8.15	.151					.9
48.	5.80	.11	.002	30.	29.0	.4	38.	7.7	12.9	1.5	99.	0.0	347.	8.10	.152					.4
97.	3.85	.31	.016	30.	29.1	.5	38.	7.7	13.6	1.5	99.	0.0	353.	8.08	.152					1.8
160.	3.70	.12	.003	30.	29.0	.5	38.	7.7	13.1	1.6	0.0	356.	8.02	.152					1.3	
178.0B																				
STATION 41	MONTH 10	DAY 19	HOOR 19.8	JULIAN DAY 293	LATITUDE 43.390N	LONGITUDE 78.200W														
0.	11.80	.06	.003	29.	27.6	.3	36.	7.7	12.5	1.5	97.	0.0	341.	7.88	.211					1.9
14.	11.70	.06	.001	30.	27.7	.3	36.	7.8	12.6	1.5	99.	0.0	342.	8.01	.198					2.3
24.	11.00	.13	.003	29.	28.3	.2	37.	7.6	12.5	1.5	101.	0.0	344.	8.11	.173					1.3
32.0B																				
STATION 42	MONTH 10	DAY 18	HOOR 13.0	JULIAN DAY 292	LATITUDE 43.390N	LONGITUDE 77.990W														
0.	12.30	.10	.002	30.	27.4	.2	37.	7.5	12.2	1.5	100.	1.1	347.	8.30	.131					2.1
10.	12.20	.11	.002	29.	27.2	.4	37.	7.6	12.2	1.5	100.	0.0	346.	8.20	.140					2.6
29.	11.80	.10	.003	29.	26.7	.5	37.	7.5	12.1	1.5	100.	0.0	343.	8.19	.138					2.6
23.8B																				
STATION 45	MONTH 10	DAY 18	HOOR 15.3	JULIAN DAY 292	LATITUDE 43.590N	LONGITUDE 78.010W														
0.	10.00	.15	.001	30.	28.8	.2	37.	7.5	12.5	1.5	98.	1.2	350.	8.28	.129					1.1
10.	9.10	.16	.002	31.	29.0	.2	37.	7.5	12.6	1.5	97.	0.0	351.	8.16	.133					1.3
20.	9.00	.20	.003	29.	29.2	.3	36.	7.5	12.5	1.5	96.	0.0	352.	8.09	.141					1.3
30.	8.40	.19	.009	29.	29.6	.3	36.	7.5	12.6	1.5	97.	0.0	353.	8.03	.141					1.6
50.	6.10	.19	.004	30.	28.9	.4	38.	7.5	12.5	1.5	99.	0.0	354.	8.02	.141					1.1
99.	3.95	.18	.003	30.	29.2	.4	38.	7.5	12.6	1.5	100.	0.0	357.	7.92	.147					.9
176.	3.70	.16	.004	31.	29.5	.8	38.	7.5	12.6	1.6	101.	0.0	360.	7.80	.150					2.1
188.4B																				
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LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7225

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SAMPLE DEPTH	WATER TEMP	NO3	PO4	SD4	CL	SIO2	CA	MG	NA	K	T-ALK	P-ALK	SPEC. COND.	PH	EH	DO	OD	TOT. SUSP	TOTAL COLI
M	C	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		VOLTS	MG/L	MG/L	SAT. MATR	100ML
		N	P								CACO3	CACO3	MICRO-MMOS					MG/L	

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STATION 46 MONTH 10 DAY 18 HOUR 16.4 JULIAN DAY 292 LATITUDE 43.730N LONGITUDE 78.020W

0.	5.90	.14	.003	30.	29.1	.5	37.	7.3	12.5	1.5	100.	0.0	361.	8.13	.129				1.3
10.	5.80	.14	.007	30.	28.9	.4	37.	7.3	12.4	1.5	100.	0.0	361.	8.04	.137				1.3
20.	5.60	.28	.014	30.	29.3	.5	37.	7.4	12.5	1.5	99.	0.0	361.	7.92	.150				1.2
30.	5.60	.25	.003	30.	29.1	.5	36.	7.4	12.6	1.6	99.	0.0	362.	7.87	.151				1.0
50.	3.85	.23	.012	29.	28.7	.7	37.	7.3	12.4	1.5	98.	0.0	363.	7.74	.156				.9
99.	3.65	.22	.010	29.	28.9	.7	37.	7.4	12.5	1.5	101.	0.0	365.	7.87	.149				.7
118.	3.65	.13	.004	29.	29.2	.7	38.	7.3	12.4	1.5	101.	0.0	365.	7.90	.138				.9

129.8B

STATION 48 MONTH 10 DAY 18 HOUR 17.8 JULIAN DAY 292 LATITUDE 43.930N LONGITUDE 78.050W

0.	5.60	.31	.015	29.	29.1	.7	38.	7.5	12.6	1.5	100.	0.0	363.	8.05	.150				.9
10.	5.60	.32	.016	29.	29.2	.7	38.	7.5	12.6	1.5	101.	0.0	362.	8.02	.148				.9
20.	5.40	.26	.014	29.	29.0	.7	38.	7.6	12.8	1.5	102.	0.0	364.	8.00	.149				2.0
30.	5.15	.22	.012	29.	29.3	.7	38.	12.7	1.5	102.	0.0	364.	7.90	.150					1.5

33.8B

STATION 49 MONTH 10 DAY 16 HOUR 17.0 JULIAN DAY 290 LATITUDE 43.940N LONGITUDE 77.680W

0.	7.70	.14	.002	29.	29.5	.6	38.	7.6	12.7	1.5	100.	0.0	353.	8.14	.132				2.1
8.	7.70	.15	.001	29.	29.4	.6	38.	7.6	12.8	1.5	100.	0.0	353.	8.02	.138				2.0
15.	7.70	.12	.001	30.	29.3	.5	38.	7.6	12.8	1.5	100.	0.0	352.	8.02	.138				2.2

20.1B

STATION 52 MONTH 10 DAY 16 HOUR 15.6 JULIAN DAY 290 LATITUDE 43.830N LONGITUDE 77.690W

0.	8.00	.15	.001	30.	29.3	.5	38.	7.5	12.9	1.4	97.	0.0	353.	8.18	.132				2.4
9.	7.90	.13	.001	30.	29.1	.4	37.	7.5	12.6	1.5	99.	0.0	352.	8.08	.138				1.9
17.	7.70	.11	.001	29.	28.9	.4	38.	7.6	12.8	1.5	99.	0.0	351.	8.05	.136				1.3
27.	7.50	.11	.002	30.	29.1	.6	38.	7.6	12.7	1.5	99.	0.0	352.	8.05	.138				1.5
43.	4.90	.17	.002	29.	29.4	.6	39.	7.6	12.7	1.5	101.	0.0	353.	7.99	.138				2.2
52.	4.85	.09	.003	30.	29.0	.7	38.	7.6	12.8	1.5	100.	0.0	352.	7.94	.139				1.8

71.3B

STATION 54 MONTH 10 DAY 16 HOUR 13.9 JULIAN DAY 290 LATITUDE 43.660N LONGITUDE 77.720W

0.	9.00	.15	.001	30.	29.0	.4	37.	7.6	12.6	1.5	98.	0.0	358.	8.20	.133				1.8
9.	8.90	.09	.001	30.	29.0	.3	38.	7.7	12.6	1.4	98.	0.0	353.	8.09	.138				1.1
17.	8.85	.16	.001	30.	28.7	.3	38.	7.6	12.6	1.4	98.	0.0	355.	8.15	.130				1.5
26.	6.35	.16	.001	29.	29.0	.3	37.	7.8	12.8	1.5	98.	0.0	356.	8.15	.131				1.5
43.	4.45	.17	.002	29.	28.9	.5	38.	7.6	12.6	1.5	99.	0.0	361.	8.11	.131				.4
87.	3.80	.10	.005	29.	28.8	.5	38.	7.8	12.6	1.5	100.	0.0	362.	8.02	.135				.4
118.	3.70	.07	.004	29.	29.0	.7	38.	7.8	12.5	1.5	101.	0.0	362.	8.03	.138				.4

146.3B

STATION 56 MONTH 10 DAY 16 HOUR 12.1 JULIAN DAY 290 LATITUDE 43.450N LONGITUDE 77.740W

0.	12.00	.21	.002	28.	28.7	.3	37.	7.6	12.5	1.5	98.	0.0	338.	8.22	.122				1.1
9.	11.90	.10	.001	28.	28.1	.3	36.	7.4	12.5	1.5	97.	0.0	338.	8.09	.122				.8
18.	11.90	.12	.001	27.	28.3	.1	37.	7.5	12.6	1.5	97.	0.0	339.	8.09	.122				1.1
27.	11.90	.13	.001	27.	28.2	.4	37.	7.5	12.7	1.5	97.	0.0	339.	8.09	.123				.9
46.	11.60	.09	.001	27.	28.0	.4	36.	7.5	12.7	1.5	98.	0.0	339.	8.11	.125				1.4
92.	3.90	.09	.005	27.	28.3	.7	38.	7.5	12.8	1.5	102.	0.0	346.	7.91	.132				1.7
110.	3.90	.04	.006	26.	28.2	.7	38.	7.5	12.7	1.5	102.	0.0	350.	7.88	.134				1.9

129.8B

STATION 59 MONTH 10 DAY 16 HOUR 10.6 JULIAN DAY 290 LATITUDE 43.360N LONGITUDE 77.750W

0.	12.20	.04	.001	28.	28.1	.3	37.	7.5	12.5	1.4	98.	0.0	352.	8.09	.142	8.79	85.		1.8
10.	12.20	.08	.001	28.	28.3	.3	38.	7.5	12.6	1.5	98.	0.0	352.	8.10	.140	8.89	86.		1.4
20.	12.20	.09	.001	28.	28.2	.4	38.	7.5	12.6	1.5	98.	0.0	358.	8.03	.140	7.98	77.		1.2
25.	12.20	.14	.002	27.	28.1	.6	38.	12.7	1.5	98.	0.0	360.	8.05	.139	7.64	74.		1.0	

29.3B

STATION 60 MONTH 10 DAY 18 HOUR 10.7 JULIAN DAY 292 LATITUDE 43.260N LONGITUDE 77.500W

0.	11.65	.11	.003	26.	28.1	.3	37.	7.5	12.6	1.5	99.	.7	350.	8.26	.140	8.88	85.		3.2
10.	11.60	.13	.003	27.	28.1	.3	38.	7.6	12.7	1.5	99.	0.0	349.	8.20	.140	8.82	84.		2.4
15.	11.55	.10	.002	28.	28.2	.3	37.	7.5	12.6	1.5	98.	0.0	350.	8.20	.148	8.77	83.		3.5

20.1B

STATION 62 MONTH 10 DAY 12 HOUR 8.7 JULIAN DAY 286 LATITUDE 43.480N LONGITUDE 77.500W

0.	10.20	.08	.002	28.	29.1	.4	37.	7.5	12.7	1.5	97.		345.	8.21	.141				1.9
10.	10.10	.10	.002	29.	29.2	.5	37.	7.5	12.8	1.6	96.	0.0	345.	8.19	.148				1.5
19.	9.90	.11	.002	29.	29.1	.3	37.	7.5	12.7	1.5	96.	0.0	344.	8.18	.148				1.9
28.	9.80	.08	.002	28.	29.0	.5	37.	7.5	12.7	1.5	97.	0.0	345.	8.16	.148				1.3
47.	9.40	.09	.005	28.	29.0	.4	37.	7.5	12.8	1.5	97.	0.0	344.	8.15	.148				2.8
94.	3.90	.17	.010	29.	29.2	.4	38.	7.5	12.6	1.5	100.	0.0	354.	8.02	.151				1.3
150.	3.65	.19	.008	28.	29.0	1.0	39.	7.5	12.8	1.5		0.0	354.	7.99	.151				1.3

170.1B



LYMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7225

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT.	TOT. SUSP MG/L	TOTAL COLI 100ML
STATION 64 MONTH 10 DAY 18 HOUR 7.0 JULIAN DAY 292 LATITUDE 43.690N LONGITUDE 77.500W																			
0.	10.00	.12	.004	28.	29.1	.3	37.	7.5	12.9	1.5	99.	0.0	347.	8.20	.131				1.9
9.	10.00	.14	.002	28.	29.2	.3	38.	7.6	12.9	1.5	97.	0.0	348.	8.19	.148				4.4
18.	9.80	.15	.002	28.	29.2	.3	38.	7.6	12.9	1.5	97.	0.0	348.	8.15	.149				2.7
27.	7.80	.15	.007	28.	29.2	.5	38.	7.6	12.8	1.5	98.	0.0	350.	8.07	.150				3.2
45.	4.00	.25	.012	28.	29.3	.8	38.	7.6	12.9	1.5	100.	0.0	352.	8.02	.151				4.5
70.	3.90	.21	.008	28.	29.3	.9	39.	7.6	12.9	1.5		0.0	354.	7.98	.152				3.2
87.88																			
STATION 66 MONTH 10 DAY 16 HOUR 18.2 JULIAN DAY 290 LATITUDE 43.920N LONGITUDE 77.430W																			
0.	8.00	.10	.003	29.	29.2	.7	38.	7.6	12.9	1.5	100.	0.0	351.	8.12	.132				3.8
9.	7.90	.10	.003	27.	29.2	.7	38.	7.6	13.0	1.6	99.	0.0	349.	8.05	.139				4.0
19.	7.90	.12	.003	27.	29.3	.7	38.	7.6	13.0	1.6	99.	0.0	347.	8.03	.138				3.7
25.68																			
STATION 67 MONTH 10 DAY 18 HOUR 5.2 JULIAN DAY 292 LATITUDE 43.820N LONGITUDE 77.250W																			
0.	9.00	.10	.005	29.	29.1	.6	38.	7.6	13.0	1.6	96.	0.0	349.	8.09	.151				2.9
10.	9.00	.10	.003	29.	29.2	.6	38.	7.6	13.0	1.6	97.	0.0	355.	7.81	.152				3.8
17.	7.00	.13	.003	29.	29.2	.7	38.	7.6	12.9	1.5	98.	0.0	357.	7.75	.151				3.8
21.98																			
STATION 69 MONTH 10 DAY 16 HOUR 20.3 JULIAN DAY 290 LATITUDE 43.590N LONGITUDE 77.250W																			
0.	10.00	.14	.002	28.	29.2	.3	36.	7.6	13.0	1.5	101.	3.3	342.	8.30	.130				3.2
8.	9.90	.14	.003	28.	29.3	.4	36.	7.6	13.0	1.6	97.		344.	8.21	.137				2.6
16.	9.85	.16	.002	28.	29.3	.4	36.	7.6	13.0	1.5	96.	0.0	343.	8.01	.144				2.5
23.	8.20	.10	.002	28.	29.4	.4	38.	7.6	13.0	1.6	97.	0.0	343.	8.00	.141				1.8
39.	5.70	.16	.002	28.	29.4	.3	38.	7.6	12.9	1.5	97.	0.0	349.	7.95	.138				1.3
78.	4.00	.10	.002	28.	29.4	.3	38.	7.6	13.0	1.6	100.	0.0	352.	7.86	.135				2.4
111.	3.90	.09	.002	28.	29.3	.5	38.	7.6	13.0	1.6	103.	0.0	352.	7.80	.135				1.7
151.88																			
STATION 71 MONTH 10 DAY 16 HOUR 22.0 JULIAN DAY 290 LATITUDE 43.390N LONGITUDE 77.250W																			
0.	11.65	.13	.002	29.	29.0	.2	36.	7.6	12.8	1.5	97.	4.3	338.	8.29	.124				1.7
7.	11.60	.14	.001	29.	29.2	.1	37.	7.6	12.9	1.6	96.		340.	8.22	.138				1.1
14.	11.55	.14	.001	25.	29.3	.3	36.	7.7	13.0	1.5	95.	0.0	339.	8.18	.140				1.3
21.	11.50	.15	.002	25.	29.3	.3	36.	7.6	12.8	1.5	98.	0.0	341.	7.90	.141				.6
35.	11.20							7.6											
70.	5.10	.15	.002	25.	29.1	.3	37.	7.6	13.0	1.5	101.	0.0	345.	7.89	.139				.9
126.	3.80	.13	.003	25.	29.0	.5	38.	7.6	12.9	1.5	99.	0.0	349.	7.85	.145				2.0
190.28																			
STATION 72 MONTH 10 DAY 16 HOUR 23.0 JULIAN DAY 290 LATITUDE 43.300N LONGITUDE 77.250W																			
0.	12.30	.07	.002	25.	28.1	.3	37.	7.6	12.7	1.5	99.	1.1	343.	8.32	.128				1.5
10.	12.30	.10	.004	25.	28.7	.3	37.	7.6	12.8	1.6	99.		344.	8.22	.135				.9
19.	12.30	.09	.003	24.	28.7	.3	37.	7.6	12.7	1.5	99.		344.	8.22	.135				1.7
25.	12.30	.15	.002	24.	28.7	.3	36.	7.6	12.7	1.5	99.		344.	8.23	.133				1.7
31.18																			
STATION 73 MONTH 10 DAY 17 HOUR .2 JULIAN DAY 291 LATITUDE 43.300N LONGITUDE 76.940W																			
0.	12.30	.10	.002	24.	28.8	.2	37.	7.6	12.8	1.5	100.	1.2	340.	8.32	.128				.7
10.	12.30	.13	.002	25.	28.7	.3	37.	7.6	12.7	1.5	99.	.4	341.	8.25	.135				1.1
17.	12.30	.10	.003	25.	28.8	.3	37.	7.5	12.8	1.5	100.		341.	8.23	.136				1.9
21.98																			
STATION 75 MONTH 10 DAY 18 HOUR 1.8 JULIAN DAY 292 LATITUDE 43.490N LONGITUDE 76.980W																			
0.	12.20	.15	.001	24.	29.3	.2	36.	7.5	13.0	1.5	93.		343.	8.23	.115				1.5
10.	12.15	.14	.001	24.	29.5	.2	36.	7.6	13.0	1.5	94.		342.	8.23	.125				1.1
20.	12.15	.12	.002	24.	29.5	.3	36.	7.5	12.9	1.5	95.		342.	8.21	.125				.9
30.	10.50	.13	.002	24.	29.5	.3	38.	7.6	13.0	1.5	95.	0.0	350.	8.10	.133				2.1
50.	7.50	.15	.005	24.	29.4	.3	37.	7.5	12.8	1.5	96.	0.0	352.	8.00	.135				1.2
99.	4.00	.15	.004	24.	29.3	.4	39.	7.7	12.8	1.5	100.	0.0	361.	7.96	.136				.9
197.	3.90	.15	.004	24.	29.3	.7	38.	7.6	12.9	1.6	101.	0.0	361.	7.82	.135				1.5
228.68																			
STATION 77 MONTH 10 DAY 18 HOUR 3.5 JULIAN DAY 292 LATITUDE 43.670N LONGITUDE 77.010W																			
0.	12.00	.15	.002	24.	28.9	.2	36.	7.6	12.8	1.5	95.	0.0	346.	8.20	.119				1.3
10.	11.90	.15	.001	24.	28.9	.2	35.	7.6	12.9	1.5	95.	0.0	348.	8.18	.127				.6
20.	11.90	.15	.001	27.	29.1	.3	36.	7.6	12.5	1.5	94.	0.0	349.	8.12	.130				.4
29.	11.90	.15	.003	26.	29.1	.3	36.	7.5	12.6	1.5	97.	0.0	350.	7.92	.133				.7
49.	4.70	.15	.002	28.	29.2	.4	38.	7.5	12.5	1.5	98.	0.0	354.	7.88	.139				1.5
98.	3.90	.23	.004	28.	29.3	.6	38.	7.6	12.6	1.6	100.	0.0	357.	7.81	.141				.9
116.	3.90	.12	.004	28.	29.3	.7	38.	7.6	12.6	1.5	100.	0.0	359.	7.74	.145				2.3
128.08																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7225

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L	P.ALK MG/L	SPEC. COND.	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MTR	TOTAL COLI 100ML MG/L
STATION 78 MONTH 10 DAY 18 HOUR 4.3 JULIAN DAY 292 LATITUDE 43.800N LONGITUDE 77.040W																			
0.	12.10	.10	.001	28.	28.9	.3	36.	7.5	12.9	1.5	98.		350.	8.22	.111				1.3
10.	12.10	.09	.002	27.	28.9	.3	36.	7.5	12.5	1.5	96.	0.0	350.	8.19	.126				1.1
19.	12.10	.09	.001	27.	28.8	.3	36.	7.5	12.5	1.5	95.	0.0	350.	8.00	.135				1.5
29.	12.00	.09	.002	27.	28.6	.4	36.	7.5	12.6	1.5	94.	0.0	350.	7.90	.137				2.1
50.	9.00	.09	.004	27.	28.3	.5	37.	7.5	12.6	1.5	93.	0.0	351.	7.76	.141				1.7
60.48																			
STATION 79 MONTH 10 DAY 17 HOUR 8.0 JULIAN DAY 291 LATITUDE 43.890N LONGITUDE 76.900W																			
0.	10.50	.09	.003	27.	29.3	.5	36.	7.5	12.6	1.5	97.	0.0	349.	8.19	.133				1.7
10.	10.40	.09	.002	28.	29.3	.5	36.	7.5	12.6	1.5	99.	0.0	350.	8.12	.162				.9
19.	10.40	.10	.004	29.	29.4	.5	36.	7.5	12.6	1.5	99.	0.0	350.	8.05	.168				1.7
23.88																			
STATION 83 MONTH 10 DAY 17 HOUR 5.8 JULIAN DAY 291 LATITUDE 43.740N LONGITUDE 76.790W																			
0.	12.40	.13	.001	27.	29.4	.2	36.	7.5	12.6	1.5	97.		346.	8.21	.132				.6
9.	12.40	.13	.002	27.	29.3	.3	36.	7.5	12.6	1.5	99.		346.	8.21	.141				.9
18.	12.40	.13	.002	27.	29.4	.3	35.	7.6	12.7	1.5	99.	.9	348.	8.25	.142				.6
27.	12.40	.12	.002	26.	29.5	.3	35.	7.5	12.6	1.5	99.	1.1	348.	8.27	.146				.4
44.	12.00	.12	.002	27.	29.4	.3	36.	7.5	12.6	1.5	100.	0.0	348.	8.19	.146				.4
82.	4.00	.14	.006	27.	29.4	.8	38.	7.6	12.4	1.5	101.	0.0	361.	8.11	.149				.4
102.08																			
STATION 85 MONTH 10 DAY 17 HOUR 3.9 JULIAN DAY 291 LATITUDE 43.600N LONGITUDE 76.680W																			
0.	12.50	.12	.002	26.	29.4	.3	35.	7.5	12.7	1.5	96.	1.6	344.	8.33	.129				.4
8.	12.50	.12	.001	27.	29.5	.3	36.	7.5	12.8	1.5	97.	.6	345.	8.25	.138				2.2
16.	12.50	.12	.001	27.	29.5	.3	36.	7.5	12.8	1.5	96.	0.0	346.	8.19	.139				1.8
24.	12.50	.12	.001	27.	29.4	.4	36.	7.5	12.7	1.5	96.	0.0	345.	8.18	.139				2.4
40.	12.40	.14	.001	28.	29.4	.4	36.	7.5	12.7	1.5	96.	0.0	346.	8.18	.141				1.7
79.	4.40	.13	.002	28.	29.3	.4	38.	7.5	12.6	1.5	99.	0.0	355.	8.00	.143				2.0
148.	3.70	.13	.002	28.	29.3	.3	38.	7.5	12.6	1.5		0.0	355.	8.01	.145				2.3
195.78																			
STATION 89 MONTH 10 DAY 17 HOUR 1.1 JULIAN DAY 291 LATITUDE 43.420N LONGITUDE 76.750W																			
0.	11.90	.13	.001	28.	28.6	.3	36.	7.5	12.5	1.5	98.	1.2	344.	8.32	.128				2.2
9.	11.90	.13	.002	29.	28.7	.3	36.	7.5	12.4	1.5	98.		344.	8.22	.136				2.3
18.	11.90	.14	.001	28.	28.7	.2	36.	7.5	12.5	1.5	99.		343.	8.21	.136				1.9
26.	11.90	.13	.001	28.	29.1	.2	36.	7.5	12.4	1.5	98.	0.0	343.	8.19	.132				2.4
44.	11.80	.14	.001	28.	29.1	.2	36.	7.5	12.5	1.5	98.	0.0	343.	8.18	.131				.9
53.	11.60	.13	.001	28.	29.1	.3	36.	7.5	12.5	1.5	98.	0.0	342.	8.19	.132				.6
71.38																			
STATION 90 MONTH 10 DAY 17 HOUR 23.3 JULIAN DAY 291 LATITUDE 43.470N LONGITUDE 76.570W																			
0.	12.10	.09	.001	26.	28.3	.3	38.	7.5	12.3	1.5	98.		343.	8.21	.126				1.9
10.	12.10	.10	.001	27.	28.3	.3	39.	7.5	12.3	1.5	99.	0.0	345.	8.12	.131				4.3
17.	12.10	.10	.001	27.	28.2	.3	38.	7.5	12.4	1.5	99.	0.0	352.	8.05	.138				3.8
23.88																			
STATION 92 MONTH 10 DAY 17 HOUR 19.5 JULIAN DAY 291 LATITUDE 43.670N LONGITUDE 76.380W																			
0.	12.80	.10	.001	28.	28.8	.2	37.	7.5	12.6	1.5	97.	0.0	342.	8.20	.132				.9
10.	12.80	.09	.002	28.	28.8	.3	37.	7.5	12.7	1.5	96.	0.0	346.	8.16	.138				.9
19.	12.80	.09	.002	28.	29.1	.3	38.	7.5	12.6	1.5	96.	0.0	346.	8.15	.138				1.3
29.	12.80	.09	.002	29.	29.3	.3	36.	7.5	12.7	1.5	96.	0.0	347.	8.10	.138				1.7
48.	12.70	.09	.002	28.	29.3	.3	37.	7.5	12.8	1.5	96.	0.0	348.	8.12	.137				2.8
62.	12.70	.09	.001	26.	29.5	.3	38.	7.5	12.9	1.5	96.	0.0	350.	8.12	.137				2.3
75.08																			
STATION 94 MONTH 10 DAY 17 HOUR 17.3 JULIAN DAY 291 LATITUDE 43.840N LONGITUDE 76.510W																			
0.	12.50	.08	.002	27.	28.8	.3	38.	7.5	12.8	1.5	97.	1.2	343.	8.32	.128				2.2
10.	12.50	.08	.002	27.	28.8	.3	39.	7.6	12.8	1.5	97.		343.	8.22	.140				2.6
19.	12.50	.08	.002	27.	28.8	.3	36.	7.5	12.6	1.5	96.	0.0	344.	8.02	.140				1.9
29.	12.50	.09	.001	27.	29.3	.3	36.	7.5	12.7	1.5	96.	0.0	345.	8.02	.140				1.5
31.	12.50	.10	.002	28.	29.4	.3	36.	7.5	12.7	1.5	97.	0.0	347.	8.02	.141				1.7
38.48																			
STATION 95 MONTH 10 DAY 17 HOUR 8.8 JULIAN DAY 291 LATITUDE 43.900N LONGITUDE 76.710W																			
0.	12.20	.10	.001	27.	29.4	.2	36.	7.5	12.7	1.5	97.		349.	8.23	.140				.9
10.	12.20	.11	.001	27.	29.4	.2	36.	7.5	12.9	1.5	97.		349.	8.21	.149				1.1
19.	12.20	.11	.001	26.	29.4	.2	37.	7.5	12.6	1.5	98.	0.0	348.	8.16	.148				.9
25.	12.20	.11	.001	27.	29.3	.2	36.	7.5	12.5	1.5	97.	0.0	350.	8.15	.145				1.1
31.18																			
STATION 96 MONTH 10 DAY 17 HOUR 9.5 JULIAN DAY 291 LATITUDE 43.980N LONGITUDE 76.680W																			
0.		.07	.001	26.	29.0	.4	36.	7.5	12.8	1.5	98.		351.	8.21	.138				1.1
10.		.14	.001	26.	29.2	.4	37.	7.5	12.8	1.5	96.	0.0	348.	8.08	.149				.9
20.		.25	.001	26.	29.2	.3	36.	7.5	12.8	1.5	96.	0.0	351.	8.00	.149				.7
32.		.07	.001	26.	29.3	.4	37.	7.5	12.7	1.5	98.	0.0	354.	7.92	.149				.4
37.58																			

LIMNOLOGICAL DATA  
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SAMPLE DEPTH	WATER TEMP	NOS MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK CAC03	P.ALK CAC03	SPEC. COND. MICRO-MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR	TOTAL COLI 100ML
STATION 97 MONTH 10 DAY 17 HOUR 10.3 JULIAN DAY 291 LATITUDE 44.010N LONGITUDE 76.800W																			
0.	11.45	.10	.001	26.	29.2	.3	37.	7.5	12.6	1.5	96.	1.0		8.30	.132				1.7
10.	11.45	.11	.001	26.	29.3	.4	36.	7.5	12.7	1.5	99.			8.23	.141				3.0
20.	11.45	.11	.002	26.	29.0	.3	36.	7.5	12.7	1.5	97.	0.0		8.20	.148				1.5
27.	11.45	.11	.002	26.	29.3	.4	36.	7.5	12.7	1.5	96.	0.0		8.02	.149				1.1
32.0B																			
STATION 98 MONTH 10 DAY 17 HOUR 12.8 JULIAN DAY 291 LATITUDE 44.080N LONGITUDE 76.600W																			
0.	12.00	.08	.001	26.	29.0	.5	36.	7.5	12.8	1.5	94.	.7	343.	8.30	.121	8.83	85.		1.1
10.	12.00	.08	.001	28.	29.3	.5	36.	7.5	12.9	1.5	95.	0.0	345.	8.19	.135	8.64	85.		.4
20.	12.00	.03	.001	26.	29.4	.6	38.	7.5	13.1	1.5	96.	0.0	346.	8.19	.133	8.83	85.		2.7
32.	12.00	.06	.001	29.	29.4	.6	36.	7.5	13.0	1.5	96.	0.0	349.	8.18	.132	8.43	81.		3.2
36.6B																			
STATION 99 MONTH 10 DAY 17 HOUR 13.8 JULIAN DAY 291 LATITUDE 44.000N LONGITUDE 76.480W																			
0.	12.30	.08	.001	26.	29.5	.5	36.	7.5	13.0	1.5	97.	1.7	341.	8.39	.122				3.0
10.	12.30	.07	.001	26.	29.7	.5	36.	7.5	13.0	1.5	97.	.9	343.	8.30	.139				4.0
20.	12.30	.08	.001	27.	29.6	.5	36.	7.5	13.0	1.5	96.	0.0	342.	8.20	.139				3.7
36.	12.30	.08	.003	28.	29.7	.5	36.	7.5	13.0	1.5	96.		343.	8.22	.140				2.8
45.7B																			
STATION 101 MONTH 10 DAY 17 HOUR 15.2 JULIAN DAY 291 LATITUDE 43.900N LONGITUDE 76.280W																			
0.	11.90	.06	.001	27.	29.6	.4	36.	7.5	13.0	1.5	95.	1.9	342.	8.39	.127	8.41	80.		3.0
10.	11.90	.07	.001	27.	29.5	.4	35.	7.5	13.0	1.5	95.		342.	8.23	.138	8.58	82.		2.6
19.	11.90	.07	.003	27.	29.4	.4	36.	7.5	12.9	1.5	96.		341.	8.24	.139	8.52	82.		2.3
25.	11.90	.07	.004	26.	29.2	.4	36.	7.5	12.9	1.5	96.		342.	8.22	.138	8.57	82.		3.4
31.1B																			
STATION 103 MONTH 10 DAY 17 HOUR 19.2 JULIAN DAY 291 LATITUDE 43.750N LONGITUDE 76.250W																			
0.	12.50	.08	.005	28.	30.5	.3	37.	7.5	13.8	1.5	97.	2.2	353.	8.40	.130				3.4
10.	12.50	.07	.002	28.	31.5	.3	38.	7.5	13.8	1.5	97.	1.1	352.	8.29	.139				4.7
20.	12.50	.07	.002	28.	31.4	.3	38.	7.6	13.7	1.5	97.	1.1	353.	8.30	.139				2.6
23.	12.50	.07	.003	27.	31.2	.3	37.	7.5	13.6	1.5	96.	.9	354.	8.27	.141				2.3
27.4B																			
STATION 105 MONTH 10 DAY 17 HOUR 21.5 JULIAN DAY 291 LATITUDE 43.550N LONGITUDE 76.300W																			
0.	12.00	.09	.002	26.	28.8	.3	37.	7.5	12.7	1.5	99.	0.0	349.	8.19	.130				1.9
10.	12.00	.10	.003	27.	28.9	.3	37.	7.6	12.6	1.5	99.	0.0	350.	8.03	.139				3.6
21.	12.00	.11	.003	26.	28.9	.3	38.	7.6	12.6	1.5	98.	0.0	350.	8.12	.136				3.8
25.6B																			

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STATION 1 MONTH 11 DAY 16 HOUR 10.3 JULIAN DAY 321 LATITUDE 43.380N LONGITUDE 79.680W																			
0.	8.40	.16	.005	25.	28.2	.4	36.	7.2	12.9	1.5	98.		350.	8.22	.138	9.78	86.		2.5
10.	8.31	.18	.001	25.	28.8	.4	36.	7.1	12.8	1.5	98.	0.0	351.	8.20	.146	9.89	87.		1.9
20.	8.22	.16	.001	26.	29.3	.4	36.	7.1	12.8	1.5	97.	0.0	352.	8.16	.141	9.92	87.		2.1
34.	7.85	.18	.002	26.	29.4	.5	36.	7.0	12.8	1.5	97.	0.0	354.	8.11	.141	9.67	84.		2.6
40.2B																			
STATION 2 MONTH 11 DAY 16 HOUR 12.0 JULIAN DAY 321 LATITUDE 43.260N LONGITUDE 79.640W																			
0.	8.30	.16	.007	26.	28.9	.4	37.	6.9	12.8	1.5	97.		347.	8.21	.122	9.49	83.		2.4
10.	8.26	.14	.004	25.	29.7	.4	37.	7.0	12.8	1.5	97.		347.	8.21	.136	9.49	83.		2.3
16.	8.25	.15	.004	26.	29.2	.4	37.	7.1	12.7	1.5	97.		347.	8.21	.155	9.25	81.		2.1
21.9B																			
STATION 3 MONTH 11 DAY 16 HOUR 12.8 JULIAN DAY 321 LATITUDE 43.220N LONGITUDE 79.420W																			
0.	8.20	.17	.005	27.	29.4	.4	38.	7.1	12.7	1.5	98.	.9	352.	8.28	.121				1.9
10.	8.12	.16	.004	27.	28.9	.4	37.	7.1	12.6	1.5	97.	0.0	354.	8.12	.146				1.9
16.	7.65	.14	.004	25.	29.4	.4	37.	7.0	12.7	1.5	97.	0.0	356.	8.02	.155				2.0
21.9B																			
STATION 5 MONTH 11 DAY 16 HOUR 8.0 JULIAN DAY 321 LATITUDE 43.360N LONGITUDE 79.480W																			
0.	8.30	.12	.004	27.	28.4	.3	36.	6.9	12.5	1.4	100.	0.0	351.	8.20	.159				1.5
10.	8.20	.10	.003	28.	28.1	.4	37.	7.0	12.6	1.5	99.	0.0	351.	8.20	.167				1.5
20.	8.19	.13	.003	27.	29.1	.4	37.	7.0	12.6	1.5	99.	0.0	352.	8.16	.172				1.9
30.	8.16	.13	.003	27.	29.9	.4	38.	7.0	12.6	1.5	99.	0.0	353.	8.11	.181				1.9
49.	7.18	.15	.003	26.	29.7	.4	37.	7.0	12.5	1.5	99.	0.0	353.	7.70	.180				2.6
81.	5.40	.13	.004	26.	28.9	.5	38.	7.0	12.5	1.5	100.	0.0	360.	7.42	.180				1.5
95.1B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7229

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L	P.ALK MG/L	SPEC. COND. MICRO-MHOS	PH	EH VOLTS	DD MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 7	MONTH 11	DAY 16	HOUR 9.2	JULIAN DAY 321	LATITUDE 43.540N	LONGITUDE 79.550W													
0.	8.35	.14	.005	27.	29.4	.4	37.	7.0	12.5	1.5	99.	1.2	351.	8.31	.151				1.5
8.	8.19	.14	.005	27.	28.9	.3	38.	7.1	12.6	1.5	99.	0.0	351.	8.16	.172				1.5
18.	8.18	.15	.005	26.	29.1	.3	38.	7.0	12.7	1.5	99.	0.0	351.	8.02	.185				2.2
25.6B																			
STATION 8	MONTH 11	DAY 16	HOUR 5.9	JULIAN DAY 321	LATITUDE 43.600N	LONGITUDE 79.350W													
0.	8.00	.14	.005	26.	28.5	.4	37.	7.0	12.5	1.4	97.	1.1	346.	8.29	.148	9.75	85.		1.9
10.	8.10	.13	.002	26.	28.8	.3	37.	7.2	12.8	1.5	97.		347.	8.22	.164	10.00	87.		4.2
20.	8.08	.11	.002	26.	28.3	.3	37.	7.2	12.5	1.5	98.	0.0	349.	8.20	.168	9.12	80.		3.7
30.	8.00	.13	.002	26.	28.6	.3	38.		12.8	1.5	97.		347.	8.21	.169	9.61	84.		4.3
50.	7.88	.13	.002	26.	29.2	.3	38.		12.6	1.5	98.		348.	8.21	.170	10.28	89.		4.0
67.	7.80	.14	.001	26.	28.6	.3	38.		12.7	1.5	98.		348.	8.21	.169	10.03	87.		4.3
76.8B																			
STATION 10	MONTH 11	DAY 16	HOUR 6.9	JULIAN DAY 321	LATITUDE 43.420N	LONGITUDE 79.280W													
0.	6.60	.11	.002	26.	28.7	.4	38.	7.1	12.6	1.5	99.		356.	8.22	.151				3.4
10.	6.68	.13	.001	26.	28.3	.4	38.	7.1	12.6	1.5	98.		357.	8.22	.168				3.0
20.	6.66	.11	.001	26.	28.7	.4	38.	7.2	12.7	1.5	99.		357.	8.22	.169				3.6
29.	6.63	.19	.009	26.	28.0	.4	38.	7.1	12.6	1.5	99.	0.0	357.	8.17	.172				4.2
49.	6.53	.15	.003	26.	28.0	.4	38.	7.2	12.6	1.5	99.	0.0	358.	8.15	.172				4.0
97.	4.55	.21	.004	26.	28.7	.4	38.	7.1	12.5	1.5	100.	0.0	359.	8.15	.172				2.8
106.	4.55	.26	.013	27.	28.8	.6	38.	7.1	12.5	1.5	100.	0.0	359.	8.11	.172				2.0
119.8B																			
STATION 12	MONTH 11	DAY 16	HOUR 14.9	JULIAN DAY 321	LATITUDE 43.260N	LONGITUDE 79.220W													
0.	7.70	.19	.015	27.	28.8	.4	38.	7.1	12.6	1.5	98.	1.7	350.	8.42	.130	10.08	87.		2.1
10.	7.74	.20	.018	27.	28.4	.4	38.	7.1	12.6	1.5	98.	1.5	355.	8.37	.146	9.74	84.		2.8
23.	7.30	.19	.018	27.	28.7	.4	38.	7.2	12.6	1.5	98.	0.0	358.	8.20	.158	9.43	81.		3.4
27.4B																			
STATION 14	MONTH 11	DAY 16	HOUR 16.7	JULIAN DAY 321	LATITUDE 43.290N	LONGITUDE 79.000W													
0.	7.50	.12	.003	25.	25.9	.3	38.	7.1	11.8	1.7	101.	1.3	338.	8.41	.108	10.81	93.		2.6
8.	7.45	.14	.003	26.	25.9	.3	37.	7.2	11.7	1.8	102.	1.1	340.	8.35	.128	11.68	101.		2.3
13.0B																			
STATION 15	MONTH 11	DAY 16	HOUR 15.9	JULIAN DAY 321	LATITUDE 43.400N	LONGITUDE 79.010W													
0.	7.40	.14	.002	27.	28.4	.3	37.	7.0	12.5	1.5	99.	0.0	357.	8.13	.100				2.1
10.	7.37	.13	.002	27.	27.8	.3	38.	7.1	12.7	1.5	98.	0.0	357.	8.13	.125				2.1
20.	7.34	.15	.002	27.	28.9	.5	38.	7.1	12.6	1.5	98.	0.0	357.	8.11	.132				1.3
30.	7.34	.15	.002	27.	28.3		37.	7.1	12.6	1.5	98.	0.0	358.	8.10	.145				2.7
49.	6.86	.16	.002	27.	28.6	.4	37.	7.1	12.5	1.5	97.	0.0	359.	8.01	.147				2.8
94.	3.82	.16	.002	26.	28.2	.5	38.	7.2	12.4	1.5	97.	0.0	360.	7.98	.159				2.5
105.2B																			
STATION 19	MONTH 11	DAY 16	HOUR 4.7	JULIAN DAY 321	LATITUDE 43.760N	LONGITUDE 79.120W													
0.	7.90	.13	.004	27.	28.5	.3	36.	7.1	12.5	1.5	98.	1.1	348.	8.29	.158				2.6
10.	7.96	.19	.003	27.	29.2	.3	36.	7.1	12.5	1.5	98.	1.2	347.	8.29	.169				3.7
18.	7.91	.14	.003	26.	28.3	.3	36.	7.0	12.4	1.5	98.	1.0	347.	8.28	.170				2.3
22.9B																			
STATION 20	MONTH 11	DAY 16	HOUR 2.1	JULIAN DAY 321	LATITUDE 43.830N	LONGITUDE 78.850W													
0.	8.50	.14	.002	27.	27.5	.3	36.	7.0	12.5	1.5	97.		345.	8.23	.148				3.0
10.	8.50	.15	.005	26.	28.3	.4	37.	7.1	12.5	1.5	98.	.7	342.	8.28	.160				2.3
23.	8.45	.14	.003	27.	28.6	.4	37.	7.0	12.4	1.5	100.		344.	8.22	.162				2.1
27.4B																			
STATION 24	MONTH 11	DAY 16	HOUR 3.1	JULIAN DAY 321	LATITUDE 43.650N	LONGITUDE 78.800W													
0.	6.20	.13	.003	26.	29.7	.4	38.	7.0	12.4	1.4	100.		352.	8.22	.147				1.9
10.	6.20	.13	.003	26.	29.6	.3	38.	7.0	12.4	1.5	99.	0.0	351.	8.20	.161				2.0
20.	6.18	.14	.004	27.	29.6	.4	38.	7.1	12.4	1.5	99.	0.0	351.	8.20	.162				1.7
29.	6.18	.19	.009	26.	28.9	.4	38.	7.0	12.3	1.5	100.		351.	8.21	.168				3.0
49.	6.18	.13	.004	27.	29.6	.4	38.	7.0	12.3	1.4	99.	0.0	351.	8.18	.169				2.6
96.	5.20	.13	.007	29.	29.6	.4	38.	7.1	12.5	1.5	100.	0.0	354.	8.18	.175				3.3
111.	4.26	.22	.018	28.	29.9	.6	38.	7.0	12.4	1.5	101.	0.0	355.	8.01	.175				2.5
124.4B																			
STATION 30	MONTH 11	DAY 16	HOUR 17.8	JULIAN DAY 321	LATITUDE 43.360N	LONGITUDE 78.730W													
0.	5.90	.10	.002	27.	28.3	.4	38.	7.0	12.4	1.5	104.	.6	355.	8.28	.123				4.3
10.	5.92	.12	.001	27.	28.2	.4	38.	7.0	12.4	1.5	102.		356.	8.22	.142				3.0
20.	5.85	.13	.001	27.	28.4	.4	38.	7.0	12.3	1.5	100.	0.0	356.	8.14	.142				3.4
32.	5.78	.13	.002	27.	28.8	.5	38.	7.0	12.4	1.5	100.	0.0	357.	8.20	.147				1.9
36.6B																			

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SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SiO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CACO3	P.ALK MG/L CACO3	SPEC. COND. MICRO- MHOS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MTR	TOTAL COLI 100ML MG/L	
STATION 31	MONTH 11	DAY 16	HOUR 18.7	JULIAN DAY 321	LATITUDE 43.390N	LONGITUDE 78.500W														
8.	5.90	.15	.004	26.	28.0	.4	38.	7.1	12.6	1.5	101.		352.	8.22	.131				1.5	
10.	5.97	.15	.003	27.	26.6	.3	38.	7.1	12.5	1.4	100.		352.	8.23	.150				.9	
20.	5.90	.21	.001	27.	27.7	.3	38.	7.1	12.5	1.5	100.		353.	8.22	.154				1.1	
35.	5.14	.17	.001	27.	28.6	.6	38.	7.0	12.5	1.5	100.		353.	8.22	.154				1.7	
40.2B																				
STATION 32	MONTH 11	DAY 15	HOUR 22.4	JULIAN DAY 320	LATITUDE 43.540N	LONGITUDE 78.500W														
0.	6.50	.15	.001	28.	29.0	.3	37.	7.0	12.5	1.4	100.	.3	355.	8.25	.134				1.9	
10.	6.52	.15	.002	28.	28.6	.3	38.	7.0	12.4	1.4	100.		356.	8.21	.141				.8	
19.	6.52	.16	.001	28.	28.7	.3	38.	7.0	12.4	1.4	99.	0.0	356.	8.17	.145				1.1	
29.	6.52	.16	.001	28.	29.0	.3	38.	7.0	12.5	1.4	99.	0.0	357.	8.11	.150				2.1	
48.	6.50	.20	.001	27.	28.5	.3	38.	6.9	12.4	1.4	99.	0.0	357.	8.06	.155				1.3	
92.	3.90	.16	.002	28.	28.9	.3	38.	7.0	12.5	1.5	99.	0.0	357.	7.98	.157				.9	
151.	3.75	.16	.003	28.	28.6	.4	37.	6.9	12.5	1.4	99.	0.0	360.	7.90	.169				.9	
170.1B																				
STATION 34	MONTH 11	DAY 16	HOUR 0.0	JULIAN DAY 321	LATITUDE 43.750N	LONGITUDE 78.500W														
0.	7.20	.17	.001	28.	29.1	.3	37.	6.9	12.5	1.5	98.		352.	8.22	.129				1.5	
10.	7.16	.18	.002	27.	29.3	.3	38.	7.0	12.5	1.5	99.	1.1	350.	8.29	.152				2.3	
20.	7.18	.19	.002	27.	28.6	.3	37.	7.0	12.5	1.5	99.	0.0	350.	8.20	.158				2.1	
30.	7.18	.15	.002	27.	28.8	.3	37.	7.0	12.6	1.4	98.	0.0	351.	8.19	.163				2.6	
49.	7.18	.17	.001	30.	28.2	.3	38.	6.9	12.5	1.4	98.	0.0	353.	8.20	.167				2.1	
83.	6.44	.18	.001	28.	28.9	.3	38.	6.9	12.5	1.5	99.		354.	8.21	.167				2.4	
95.1B																				
STATION 35	MONTH 11	DAY 16	HOUR .9	JULIAN DAY 321	LATITUDE 43.880N	LONGITUDE 78.510W														
0.	8.30	.12	.002	28.	29.0	.4	38.	7.0	12.6	1.5	97.	0.0	346.	8.20	.161				2.2	
10.	8.23	.13	.001	28.	28.7	.3	38.	7.0	12.6	1.5	97.	.7	346.	8.29	.167				1.9	
20.	8.25	.12	.001	28.	29.2	.3	38.	7.0	12.6	1.4	97.	0.0	347.	8.20	.168				3.0	
23.8B																				
STATION 36	MONTH 11	DAY 15	HOUR 18.3	JULIAN DAY 320	LATITUDE 43.920N	LONGITUDE 78.240W														
0.	8.30	.17	.002	27.	29.0	.3	36.	7.1	12.7	1.5	98.		346.	8.22	.143				2.0	
10.	8.34	.12	.002	26.	28.8	.3	37.	7.2	12.5	1.4	98.		346.	8.24	.149				1.5	
23.	8.35	.17	.001	26.	28.9	.3	36.	7.3	12.5	1.4	98.	.6	346.	8.32	.150				1.7	
27.4B																				
STATION 38	MONTH 11	DAY 15	HOUR 19.4	JULIAN DAY 320	LATITUDE 43.760N	LONGITUDE 78.230W														
0.	7.60	.17	0.000	28.	27.7	.4	37.	7.2	12.5	1.4	98.	0.0	353.	8.13	.133				1.5	
10.	7.67	.14	0.000	27.	28.0	.5	36.	7.3	12.5	1.4	98.		352.	8.26	.135				1.9	
20.	7.66	.14	0.000	27.	28.8	.5	37.	7.3	12.5	1.4	100.	.9	352.	8.38	.138				1.1	
29.	7.65	.15	0.000	27.	28.8	.4	37.	7.3	12.5	1.4	100.		353.	8.21	.146				1.5	
48.	7.62	.17	.000	29.	28.9	.4	36.	7.3	12.5	1.4	100.	0.0	353.	8.10	.162				1.3	
89.	5.50	.17	.006	28.	29.1	.6	38.	7.3	12.6	1.4	98.	0.0	357.	8.03	.180				1.9	
105.2B																				
STATION 40	MONTH 11	DAY 15	HOUR 21.0	JULIAN DAY 320	LATITUDE 43.530N	LONGITUDE 78.210W														
0.	4.70	.14	.010	27.	31.5	.3	38.	7.3	12.7	1.4	100.	0.0	354.	8.15	.152				1.7	
10.	4.62	.12	.002	27.	30.9	.3	38.	7.3	12.6	1.4	100.	0.0	354.	8.13	.167				1.7	
19.	4.54	.15	.002	28.	30.3	.3	38.	7.3	12.5	1.4	100.	0.0	359.	8.13	.170				1.5	
29.	4.53	.14	.004	27.	28.8	.3	37.	7.3	12.5	1.4	100.	0.0	359.	8.10	.172				1.5	
48.	4.52	.11	.009	29.	30.1	.3	38.	7.3	12.5	1.5	101.	0.0	360.	8.10	.175				1.7	
93.	4.21	.15	.005	27.	29.6	.5	37.	7.4	12.6	1.5	101.	0.0	360.	8.00	.180				2.1	
140.	3.85	.17	.004	27.	29.7	.8	38.	7.4	12.7	1.5	101.	0.0	360.	7.89	.182				1.7	
157.0B																				
STATION 41	MONTH 11	DAY 16	HOUR 19.8	JULIAN DAY 321	LATITUDE 43.390N	LONGITUDE 78.200W														
0.	6.80	.14	.005	27.	29.8	.4	37.	7.3	12.8	1.6	100.		355.	8.22	.135				1.1	
10.	6.82	.16	.005	28.	29.5	.3	38.	7.4	12.9	1.5	100.		355.	8.21	.151				1.5	
20.	6.50	.16	.003	28.	29.3	.3	38.	7.3	12.7	1.4	100.	0.0	355.	8.19	.154				1.5	
29.	5.51	.16	.004	28.	29.2	.5	38.	7.3	12.6	1.5	101.	0.0	355.	8.19	.157				1.7	
31.	5.50	.16	.010	27.	32.8	.5	38.	7.0	12.8	1.5	100.	0.0	356.	8.19	.157				1.5	
36.6B																				
STATION 42	MONTH 11	DAY 16	HOUR 20.8	JULIAN DAY 321	LATITUDE 43.390N	LONGITUDE 77.990W														
0.	7.20	.15	.003	27.	29.1	.5	38.	7.2	12.8	1.5	99.	0.0	354.	8.20	.141				3.8	
9.	7.10	.13	.006	28.	29.0	.5	38.	7.2	12.8	1.5	99.	0.0	354.	8.16	.151				4.1	
19.	7.10	.13	.005	28.	29.6	.5	38.	7.2	13.0	1.6	99.	0.0	355.	8.14	.152				5.1	
24.	7.05	.13	.005	28.	29.9	.4	38.	7.2	13.0	1.5	99.	0.0	354.	8.19	.152				3.0	
29.3B																				

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SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT.	TOT. SUSP MTR	TOTAL COLI 100ML MG/L
STATION 45	MONTH 11	DAY 15	HOUR 14.7	JULIAN DAY 320		LATITUDE 43.590N		LONGITUDE 78.010W											
0.	6.20	.15	.005	27.	29.6	.3	38.	7.0	12.5	1.5	98.	0.0	354.	8.17	.140				1.7
10.	6.24	.15	.005	27.	29.2	.3	38.	7.1	12.5	1.4	99.	0.0	355.	8.19	.155				1.9
20.	6.04	.13	.007	27.	29.6	.4	38.	7.1	12.6	1.5	99.	0.0	354.	8.17	.158				1.9
30.	5.82	.14	.006	27.	28.9	.4	37.	7.0	12.6	1.5	99.	0.0	355.	8.19	.162				1.5
49.	5.78	.15	.007	27.	28.6	.4	38.	7.0	12.6	1.5	100.	0.0	355.	8.09	.170				1.3
97.	3.77	.08	.010	27.	28.7	.5	38.	7.1	12.6	1.5	100.	0.0	355.	8.09	.170				1.3
171.	3.71	.09	.010	27.	29.1	.8	38.	7.2	12.7	1.5	101.	0.0	355.	8.12	.110				1.7
188.4B																			
STATION 46	MONTH 11	DAY 15	HOUR 15.9	JULIAN DAY 320		LATITUDE 43.730N		LONGITUDE 78.020W											
0.	7.00	.15	.006	29.	29.1	.3	38.	6.9	12.7	1.5	99.	1.1	350.	8.28	.138				3.6
10.	7.00	.17	.005	27.	29.4	.3	37.	7.0	12.6	1.5	99.	0.0	351.	8.18	.152				2.4
20.	7.02	.10	.005	27.	28.7	.3	38.	7.1	12.6	1.4	99.	0.0	353.	8.18	.162				1.9
30.	6.94	.11	.004	27.	28.9	.3	38.	7.1	12.7	1.5	99.	0.0	353.	8.19	.161				2.3
50.	6.54	.08	.005	28.	28.8	.4	38.	7.2	12.7	1.5	99.	0.0	353.	8.18	.164				1.7
117.	3.98	.07	.009	27.	29.3	.8	39.	7.2	12.7	1.5	101.	0.0	361.	8.12	.165				1.3
128.0B																			
STATION 48	MONTH 11	DAY 15	HOUR 17.3	JULIAN DAY 320		LATITUDE 43.930N		LONGITUDE 78.050W											
0.	8.60	.13	.002	27.	28.7	.4	38.	7.1	12.8	1.5	106.	.2	348.	8.28	.145				2.1
10.	8.89	.09	.001	27.	28.2	.4	37.	7.1	12.6	1.5	100.	.2	348.	8.27	.147				2.3
20.	8.88	.10	.000	27.	28.8	.3	37.	7.2	12.5	1.5	99.	0.0	349.	8.24	.150				1.6
32.	8.46	.11	.001	27.	28.8	.3	37.	7.2	12.5	1.4	97.	0.0	349.	8.19	.152				1.6
36.6B																			
STATION 49	MONTH 11	DAY 13	HOUR 17.2	JULIAN DAY 318		LATITUDE 43.940N		LONGITUDE 77.680W											
0.	9.30	.11	.003	28.	28.7	.2	36.	7.1	12.5	1.5	97.	0.0	344.	8.22	.128				1.3
10.	9.40	.11	.004	28.	28.4	.3	36.	7.2	12.5	1.5	97.	0.0	345.	8.20	.137				.9
21.	9.40	.11	.005	27.	28.6	.3	36.	7.2	12.5	1.5	96.	0.0	348.	8.20	.137				.9
25.6B																			
STATION 52	MONTH 11	DAY 13	HOUR 16.0	JULIAN DAY 318		LATITUDE 43.830N		LONGITUDE 77.690W											
0.	9.41	.09	.004	27.	28.6	.3	37.	7.2	12.6	1.5	98.	0.0	342.	8.19	.121				1.1
10.	9.41	.10	.004	27.	28.9	.3	36.	7.2	12.6	1.4	98.	0.0	349.	8.20	.135				1.1
20.	9.41	.12	.005	27.	29.1	.3	36.	7.2	12.6	1.4	97.	0.0	350.	8.20	.136				.6
30.	9.41	.11	.005	27.	28.8	.3	36.	7.2	12.6	1.4	98.	0.0	350.	8.20	.136				.8
50.	7.11	.12	.005	27.	28.9	.5	37.	7.2	12.5	1.5	99.	0.0	351.	8.09	.138				.8
60.	5.30	.13	.009	30.	30.0	.7	38.	7.2	12.5	1.4	100.	0.0	352.	8.03	.139				.6
72.2B																			
STATION 54	MONTH 11	DAY 13	HOUR 14.8	JULIAN DAY 318		LATITUDE 43.660N		LONGITUDE 77.720W											
0.	8.68	.12	.004	27.	28.6	.2	37.	7.2	12.4	1.4	98.	0.0	341.	8.20	.119				1.1
10.	8.68	.15	.004	27.	29.0	.2	37.	7.2	12.4	1.4	98.	0.0	342.	8.20	.133				.4
20.	8.67	.15	.009	27.	29.5	.3	37.	7.1	12.4	1.4	98.	0.0	342.	8.18	.135				1.2
29.	8.62	.14	.004	27.	28.8	.3	37.	7.2	12.4	1.4	98.	0.0	343.	8.18	.137				1.9
49.	7.45	.14	.004	27.	29.0	.3	37.	7.1	12.4	1.4	99.	0.0	347.	8.12	.137				2.0
94.	4.03	.21	.016	27.	28.6	.5	38.	7.1	12.4	1.4	101.	0.0	347.	8.09	.138				1.5
135.	4.02	.24	.016	28.	29.3	.6	38.	7.3	12.4	1.4	101.	0.0	349.	8.09	.136				.9
150.0B																			
STATION 56	MONTH 11	DAY 13	HOUR 12.7	JULIAN DAY 318		LATITUDE 43.450N		LONGITUDE 77.740W											
0.	6.22	.12	.007	27.	27.7	.4	38.	7.3	12.2	1.4	101.	0.0	354.	8.17	.121				1.7
10.	6.20	.12	.007	27.	27.3	.4	38.	7.3	12.4	1.4	101.	0.0	355.	8.12	.135				2.3
20.	6.10	.12	.005	28.	27.6	.6	38.	7.2	12.5	1.5	101.	0.0	355.	8.09	.135				1.1
30.	6.00	.14	.005	28.	27.8	.6	38.	7.1	12.5	1.4	100.	0.0	355.	8.09	.132				.9
49.	5.48	.14	.006	29.	28.6	.5	38.	7.1	12.5	1.4	101.	0.0	359.	8.08	.133				1.7
96.	4.31	.14	.005	29.	28.5	.6	38.	7.2	12.5	1.4	101.	0.0	360.	8.05	.134				1.5
111.	4.31	.13	.005	29.	29.0	.7	38.	7.2	12.5	1.4	100.	0.0	360.	8.00	.133				1.1
129.8B																			
STATION 59	MONTH 11	DAY 13	HOUR 11.8	JULIAN DAY 318		LATITUDE 43.360N		LONGITUDE 77.750W											
0.	7.70	.11	.004	27.	28.8	.2	38.	7.2	12.6	1.4	99.	0.0	345.	8.22	.140	10.45	90.		1.1
10.	7.70	.10	.004	29.	28.7	.2	37.	7.1	12.6	1.5	99.	0.0	348.	8.18	.140	10.18	88.		1.7
20.	7.42	.11	.004	27.	28.8	.4	38.	7.2	12.6	1.5	99.	0.0	350.	8.18	.138	10.26	88.		1.3
27.	7.28	.14	.005	28.	28.5	.4	38.	7.1	12.8	1.5	100.	0.0	356.	8.14	.138	9.74	84.		1.3
31.1B																			
STATION 60	MONTH 11	DAY 15	HOUR 11.0	JULIAN DAY 320		LATITUDE 43.260N		LONGITUDE 77.500W											
0.	7.70	.10	.004	27.	29.1	.3	38.	7.1	12.5	1.5	99.	0.0	354.	8.23	.162	10.49	91.		2.3
10.	7.70	.14	.004	28.	29.2	.3	38.	7.1	12.5	1.5	99.	.5	356.	8.27	.162	10.52	91.		4.7
19.	7.69	.16	.004	28.	28.8	.3	36.	7.1	12.5	1.5	99.	1.0	356.	8.29	.149	10.13	88.		6.9
20.1B																			

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LAKE ONTARIO

CRUISE 7229

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK MG/L CAC03	P.ALK MG/L CAC03	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MTR	TOTAL COLI 1COML MG/L
STATION 62	MONTH 11	DAY 15	HOOR 9.1	JULIAN DAY 320	LATITUDE 43.488N	LONGITUDE 77.500W													
0.	6.90	.19	.001	28.	29.3	.4	36.	7.1	12.5	1.4	99.	349.	8.22	.141					1.7
10.	6.76	.17	.001	27.	28.9	.3	36.	7.1	12.6	1.5	98.	0.0	350.	8.19	.157				1.9
20.	6.78	.15	.001	27.	28.4	.3	37.	7.1	12.5	1.4	99.	0.0	349.	8.18	.161				1.9
30.	6.78	.16	.001	28.	28.6	.3	37.	7.1	12.6	1.5	99.	0.0	348.	8.20	.160				1.7
49.	6.78	.17	.004	28.	27.9	.4	36.	7.1	12.6	1.5	99.	0.0	349.	8.19	.162				2.3
97.	3.86	.16	.007	29.	28.4	.6	38.	7.1	12.6	1.5	102.	0.0	354.	8.10	.162				1.9
156.	3.85	.12	.009	28.	29.2	.9	38.	7.2	12.6	1.5	104.	0.0	355.	8.09	.163				2.3
171.9B																			
STATION 64	MONTH 11	DAY 15	HOOR 7.3	JULIAN DAY 320	LATITUDE 43.690N	LONGITUDE 77.500W													
0.	7.30	.15	.005	28.	29.2	.4	36.	7.1	12.6	1.4	98.	1.0	352.	8.29	.148				2.3
10.	7.30	.14	.004	27.	28.4	.4	36.	7.1	12.5	1.4	98.		352.	8.21	.168				1.3
20.	7.30	.14	.004	27.	28.4	.4	36.	7.1	12.3	1.4	98.	.5	353.	8.26	.169				1.5
30.	7.30	.14	.004	27.	28.6	.4	37.	7.2	12.4	1.4	98.		354.	8.22	.170				1.3
50.	7.26	.13	.002	28.	28.1	.4	36.	7.1	12.4	1.4	98.		354.	8.22	.170				.6
71.	5.50	.14	.000	29.	28.3	.4	37.	7.2	12.5	1.4	100.		355.	8.21	.168				1.5
82.3B																			
STATION 66	MONTH 11	DAY 13	HOOR 18.2	JULIAN DAY 318	LATITUDE 43.920N	LONGITUDE 77.430W													
0.	9.40	.17	.001	27.	29.2	.3	36.	7.1	12.5	1.4	97.		347.	8.22	.120				.9
10.	9.37	.09	.001	28.	28.4	.3	36.	7.0	12.5	1.4	97.	0.0	346.	8.19	.134				1.1
19.	9.36	.14	.001	27.	28.6	.5	36.	7.2	12.5	1.4	97.	0.0	349.	8.20	.137				1.1
23.8B																			
STATION 67	MONTH 11	DAY 15	HOOR 5.5	JULIAN DAY 320	LATITUDE 43.820N	LONGITUDE 77.250W													
3.	8.20																		
22.9B																			
STATION 69	MONTH 11	DAY 13	HOOR 20.2	JULIAN DAY 318	LATITUDE 43.590N	LONGITUDE 77.250W													
0.	8.50	.20	.010	28.	29.2	.3	37.	7.1	12.8	1.8	96.		351.	8.21	.112				1.2
10.	8.42	.09	.004	28.	28.8	.3	37.	7.0	12.5	1.4	96.	0.0	352.	8.19	.141				.9
20.	8.28	.08	.005	29.	28.6	.3	36.	7.1	12.5	1.4	96.	0.0	352.	8.18	.142				1.8
30.	8.27	.13	.005	29.	28.3	.3	36.	7.1	12.5	1.5	97.	0.0	352.	8.16	.146				1.3
49.	7.50	.09	.005	28.	28.7	.4	37.	7.2	12.5	1.4	97.	0.0	353.	8.15	.149				.9
98.	3.82	.09	.006	28.	28.9	.7	37.	7.2	12.6	1.4	99.	0.0	360.	8.10	.153				1.1
137.	3.82	.10	.006	28.	28.4	.8	38.	7.1	12.5	1.4	100.	0.0	360.	8.03	.162				1.7
151.8B																			
STATION 71	MONTH 11	DAY 13	HOOR 21.7	JULIAN DAY 318	LATITUDE 43.390N	LONGITUDE 77.250W													
0.	8.22	.06	.002	28.	28.9	.3	37.	7.0	12.5	1.4	97.		351.	8.22	.131				1.5
10.	8.22	.10	.002	28.	28.6	.4	36.	7.0	12.5	1.4	98.	.3	351.	8.25	.136				1.5
20.	8.22	.12	.002	28.	29.1	.4	36.	7.0	12.5	1.4	98.	.4	352.	8.27	.143				1.8
30.	8.21	.11	.002	28.	29.1	.4	36.	7.0	12.5	1.4	99.	.4	353.	8.29	.149				2.2
50.	6.31	.12	.004	28.	28.7	.5	36.	7.1	12.5	1.4	99.	.2	357.	8.26	.152				2.2
98.	4.01	.12	.005	28.	29.2	.4	38.	7.4	12.5	1.4	99.	0.0	357.	8.11	.157				1.5
174.	3.82	.14	.006	28.	28.8	.9	38.	7.4	12.5	1.5	99.	0.0	361.	8.01	.161				1.1
188.4B																			
STATION 72	MONTH 11	DAY 13	HOOR 22.3	JULIAN DAY 318	LATITUDE 43.300N	LONGITUDE 77.250W													
0.	8.50	.11	.003	29.	28.6	.2	36.	7.4	12.6	1.4	97.	.3	345.	8.26	.131				.8
9.	8.46	.11	.003	27.	27.9	.2	36.	7.4	12.6	1.4	98.		349.	8.22	.150				1.5
19.	8.45	.13	.002	29.	28.1	.2	37.	7.4	12.6	1.5	98.	0.0	353.	8.20	.152				1.5
24.	8.39	.10	.004	27.	28.6	.2	37.	7.4	12.7	1.4	98.	0.0	356.	8.13	.152				1.1
29.3B																			
STATION 73	MONTH 11	DAY 13	HOOR 23.7	JULIAN DAY 318	LATITUDE 43.300N	LONGITUDE 76.940W													
0.	8.60	.08	.003	29.	28.2	.3	36.	7.3	12.6	1.4	102.		346.	8.23	.132				2.2
9.	8.50	.12	.003	27.	28.2	.3	37.	7.4	12.8	1.4	98.		346.	8.22	.138				1.1
18.	8.49	.12	.002	28.	28.1	.2	36.	7.4	12.8	1.4	99.		347.	8.22	.138				1.1
23.8B																			
STATION 74	MONTH 11	DAY 14	HOOR 23.9	JULIAN DAY 319	LATITUDE 43.420N	LONGITUDE 76.960W													
3.	7.40	.13	.001	26.	28.5	.2	36.	7.4	12.6	1.4	97.	0.0	349.	8.19	.135				1.5
184.7B																			
STATION 75	MONTH 11	DAY 15	HOOR 1.0	JULIAN DAY 320	LATITUDE 43.490N	LONGITUDE 76.980W													
3.	7.52																		
228.6B																			
STATION 76	MONTH 11	DAY 15	HOOR 2.2	JULIAN DAY 320	LATITUDE 43.570N	LONGITUDE 76.990W													
3.	8.38																		
197.5B																			
STATION 77	MONTH 11	DAY 15	HOOR 3.6	JULIAN DAY 320	LATITUDE 43.670N	LONGITUDE 77.010W													
3.	8.10																		
124.4B																			

LIMNOLOGICAL DATA  
LAKE ONTARIO

CRUISE 7229

SAMPLE DEPTH M	WATER TEMP C	NO3 NG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	SiO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALK CAC03 MG/L	P.ALK CAC03 MG/L	SPEC. COND. MICRO-MHOS	PH VOLTS	EM MG/L	DO MG/L	DO PCT. SAT.	TOT. SUSP. MG/L	TOTAL COLI 100ML		
-----																					
STATION 78	MONTH 11	DAY 15	HOUR 4.7	JULIAN DAY 320							LATITUDE 43.800N		LONGITUDE 77.040W								
3. 59.4B	8.70										96. 0.0	347. 8.19	.122								
-----																					
STATION 79	MONTH 11	DAY 14	HOUR 6.3	JULIAN DAY 319							LATITUDE 43.890N		LONGITUDE 76.900W								
0. 10. 18. 23.8B	9.10 9.05 9.05	.09 .09 .06	.003 .003 .003	27. 27. 29.	29.1 28.6 28.7	.3 .3 .3	36. 36. 38.	7.4 7.4 7.3	12.8 12.7 12.8	1.4 1.4 1.4	97. 96. 97.	1.0 0.0 347.	8.31 8.20 8.22	.131 .149 .148							
-----																					
STATION 83	MONTH 11	DAY 14	HOUR 4.4	JULIAN DAY 319							LATITUDE 43.740N		LONGITUDE 76.790W								
0. 10. 20. 30. 50. 92. 102.4B	9.50 9.48 9.48 9.46 9.40 4.15	.09 .10 .08 .08 .14 .10	.005 .005 .005 .005 .005 .010	27. 28. 27. 27. 28. 27.	28.1 28.8 28.5 28.4 28.8 28.4	.2 .2 .2 .2 .2 .8	36. 37. 36. 36. 36. 38.	7.4 7.4 7.4 7.4 7.4 7.4	13.0 13.0 13.0 13.0 13.0 12.8	1.4 1.4 1.4 1.4 1.4 1.4	97. 97. 97. 97. 97. 102.	.6 .9 0.0 0.0 352. 0.0	349. 349. 349. 349. 352. 356.	8.28 8.29 8.20 8.20 8.21 8.02	.133 .140 .148 .150 .150						
-----																					
STATION 85	MONTH 11	DAY 14	HOUR 3.0	JULIAN DAY 319							LATITUDE 43.600N		LONGITUDE 76.680W								
0. 9. 18. 27. 45. 86. 149. 184.7B	9.40 9.36 9.36 9.36 9.35 4.23 3.82	.08 .11 .11 .11 .10 .10 .10	.004 .003 .002 .002 .002 .005 .006	28. 27. 27. 27. 27. 27. 27.	28.9 29.2 29.5 29.7 28.7 29.1 29.1	.2 .3 .3 .3 .4 .4 .5	37. 36. 36. 36. 36. 38. 38.	7.4 7.4 7.4 7.4 7.4 7.4 7.4	13.2 12.8 12.8 12.9 12.9 12.6 12.7	1.4 1.4 1.4 1.4 1.4 1.4 1.4	98. 97. 97. 97. 97. 100. 100.	.6 352. 354. 353. 354. 0.0 0.0	8.29 8.23 8.21 8.21 8.21 8.12 8.12	.132 .143 .147 .148 .149 .149 .150							
-----																					
STATION 89	MONTH 11	DAY 14	HOUR .7	JULIAN DAY 319							LATITUDE 43.420N		LONGITUDE 76.750W								
0. 10. 20. 30. 50. 64. 75.0B	9.16 9.16 9.15 8.85 4.50 4.35	.09 .10 .09 .10 .11 .12	.001 .002 .003 .002 .005 .004	27. 27. 27. 27. 28. 28.	29.4 29.6 29.8 29.9 28.6 28.7	.3 .3 .3 .3 .7 .9	36. 36. 36. 36. 37. 37.	7.4 7.3 7.3 7.4 7.4 7.4	12.9 12.9 12.9 13.0 12.5 12.7	1.4 1.4 1.4 1.4 1.4 1.4	97. 97. 98. 98. 99. 101.	351. 351. 352. 352. 352. 352.	8.23 8.12 8.13 8.15 8.09 8.02	.131 .147 .147 .148 .149 .150							
-----																					
STATION 90	MONTH 11	DAY 14	HOUR 21.2	JULIAN DAY 319							LATITUDE 43.470N		LONGITUDE 76.570W								
3. 23.8B	6.30	.12	.003	28. 29.0	.3	37.	7.4 13.0	1.4	99. 0.0	357. 8.19	.140										
-----																					
STATION 91	MONTH 11	DAY 14	HOUR 20.6	JULIAN DAY 319							LATITUDE 43.530N		LONGITUDE 76.450W								
3. 36.6B	7.08	.11	.002	28. 30.6	.3	37.	7.5 13.7	1.5	99. 0.0	362. 8.17	.140										
-----																					
STATION 92	MONTH 11	DAY 14	HOUR 18.4	JULIAN DAY 319							LATITUDE 43.670N		LONGITUDE 76.380W								
3. 82.3B	8.80	.15	.003	28. 28.6	.2	36.	7.4 12.7	1.4	97. 344.	8.23	.129										
-----																					
STATION 94	MONTH 11	DAY 14	HOUR 15.0	JULIAN DAY 319							LATITUDE 43.840N		LONGITUDE 76.510W								
0. 10. 20. 30. 33. 38.4B	8.80 8.76 8.76 8.76 8.76	.12 .13 .13 .11 .11	.001 .003 .004 .004 .004	28. 28. 28. 28. 27.	28.5 28.9 28.7 28.9 29.1	.2 .2 .2 .2 .3	36. 36. 36. 35. 35.	7.4 7.4 7.4 7.4 7.4	12.7 12.7 12.9 12.8 12.8	1.4 1.4 1.4 1.4 1.4	98. 98. 96. 95. 95.	.3 1.1 0.0 0.0 0.0	346. 347. 348. 348. 349.	8.29 8.30 7.90 8.14 8.12	.119 .150 .159 .161 .160						
-----																					
STATION 95	MONTH 11	DAY 14	HOUR 7.3	JULIAN DAY 319							LATITUDE 43.900N		LONGITUDE 76.710W								
0. 10. 20. 24. 29.3B	9.00 8.98 8.86 8.84	.12 .10 .10 .10	.002 .003 .002 .003	28. 27. 27. 27.	28.9 28.3 28.1 28.7	.4 .4 .4 .4	36. 36. 36. 36.	7.4 7.4 7.4 7.4	12.6 12.6 12.7 12.7	1.4 1.4 1.4 1.4	97. 97. 97. 98.	.7 351. 351. 351.	8.29 8.21 8.20 8.18	.132 .149 .150 .150							
-----																					
STATION 96	MONTH 11	DAY 14	HOUR 8.0	JULIAN DAY 319							LATITUDE 43.980N		LONGITUDE 76.680W								
0. 10. 20. 31. 36.6B	8.90 9.17 9.20 9.23	.19 .13 .13 .16	.003 .003 .005 .005	28. 27. 27. 27.	28.6 28.3 29.1 30.2	.4 .4 .4 .4	36. 36. 37. 36.	7.4 7.4 7.4 7.5	12.8 12.7 13.0 13.5	1.4 1.4 1.5 1.8	103. 102. 102. 100.	.6 347. 349. 349. 349.	8.25 8.22 8.22 8.19	.136 9.43 10.19 10.39	90. 89. 91. 93.	2.6 2.4 3.0 3.9					
-----																					
STATION 97	MONTH 11	DAY 14	HOUR 9.0	JULIAN DAY 319							LATITUDE 44.010N		LONGITUDE 76.800W								
0. 10. 20. 30. 31.1B	8.80 8.66 8.65 8.65	.09 .07 .08 .11	.005 .005 .004 .005	27. 28. 28. 28.	28.2 28.9 28.8 28.8	.4 .5 .4 .4	36. 36. 36. 35.	7.4 7.4 7.4 7.3	12.8 12.9 12.7 12.8	1.4 1.4 1.4 1.4	98. 97. 97. 96.	1.8 347. 350. 351.	8.32 8.21 8.16 8.14	.140 .149 .152 .160							
-----																					



CRUISE 7229

SAMPLE DEPTH	WATER TEMP	NO3	PO4	SO4	CL	SI02	CA	MG	NA	K	T.ALK	P.ALK	SPEC. COND.	PH	EH	DO	DO PCT. SAT.	TOT. SUSP. MATR	TOTAL COLI 100ML
M	C	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		VOLTS	MG/L		MG/L	
-----																			
STATION 98	MONTH 11	DAY 14	HOUR 10.2	JULIAN DAY 319						LATITUDE 44.080N		LONGITUDE 76.600W							
0.	9.10	.09	.005	28.	28.3	.5	36.	7.4	12.8	1.4	97.	1.1	346.	8.30	.128	9.53	85.	2.4	
10.	9.09	.10	.005	27.	29.0	.5	36.	7.3	12.9	1.4	97.	.2	346.	8.25	.131	9.61	86.	1.9	
20.	9.08	.12	.005	27.	29.1	.5	36.	7.4	12.8	1.4	96.	0.0	348.	8.20	.147	8.99	81.	2.2	
32.	9.08	.09	.005	27.	29.0	.5	36.	7.4	13.0	1.4	96.	0.0	348.	8.19	.152	9.18	82.	3.0	
36.6B																			
STATION 99	MONTH 11	DAY 14	HOUR 11.3	JULIAN DAY 319						LATITUDE 44.000N		LONGITUDE 76.480W							
0.	8.90	.14	.005	28.	29.6	.4	36.	7.4	13.2	1.7	97.	.2	354.	8.24	.121				2.0
10.	8.80	.11	.005	28.	29.0	.5	36.	7.4	12.9	1.4	97.		350.	8.24	.125				2.7
20.	8.78	.12	.005	28.	28.9	.5	36.	7.4	12.7	1.4	96.		353.	8.25	.132				1.5
30.	8.81	.11	.005	27.	28.2	.5	36.	7.3	12.7	1.4	96.		354.	8.27	.139				2.4
44.	8.80	.12	.004	27.	28.3	.6	36.	7.3	12.3	1.4	96.		353.	8.23	.140				1.7
49.9B																			
STATION 101	MONTH 11	DAY 14	HOUR 12.8	JULIAN DAY 319						LATITUDE 43.900N		LONGITUDE 76.280W							
0.	8.40	.11	.003	28.	28.7	.4	36.	7.2	12.6	1.4	97.		345.	8.21	.125	10.18	96.	1.1	
10.	8.28	.13	.003	27.	28.3	.4	36.	7.2	12.6	1.4	97.	0.0	346.	8.20	.131	8.91	78.	1.5	
20.	8.28	.14	.005	28.	28.6	.4	34.	7.2	12.6	1.4	97.	0.0	346.	8.20	.136	8.67	76.	1.3	
24.	8.25	.13	.004	27.	28.8	.4	36.	7.2	12.6	1.4	97.	0.0	346.	8.18	.145	8.66	76.	1.3	
31.1B																			
STATION 103	MONTH 11	DAY 14	HOUR 16.9	JULIAN DAY 319						LATITUDE 43.750N		LONGITUDE 76.250W							
0.	8.60	.09	.004	28.	28.1	.4	36.	7.3	12.8	1.4	97.		342.	8.23	.112				1.3
10.	8.65	.13	.004	27.	28.2	.4	36.	7.3	12.7	1.5	97.	.6	344.	8.29	.139				.9
23.	8.65	.10	.004	27.	29.1	.4	36.	7.3	12.8	1.5	97.	.9	345.	8.30	.140				1.1
27.4B																			
STATION 105	MONTH 11	DAY 14	HOUR 20.0	JULIAN DAY 319						LATITUDE 43.550N		LONGITUDE 76.300W							
3.	8.26	.13	.003	28.	34.4	.5		7.4	12.1	1.5	99.	0.0	371.	8.20	.130				1.7
25.6B																			
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Appendix B. STATISTICAL SUMMARY

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NOAA FORM 61-18

U.S. GOV. PRINTING OFFICE: 1975-0-530-000

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 WATER TEMP.CELSIUS

LAKE ONTARIO  
 1972  
 =====

DATE-	213-216	255-258	290-293	318-321
DEPTH M				
MEAN-				
0	19.827	19.128	9.763	7.954
5	21.300	19.550	9.317	7.874
10	15.379	18.399	9.705	7.944
15	12.107	16.910	9.650	7.863
20	9.661	12.097	9.612	7.877
25	9.822	9.806	10.159	8.192
30	5.387	6.683	8.871	7.504
35	6.133	6.850	11.700	7.250
40	5.800	4.750	7.533	
45	5.700		7.825	9.075
50	4.157	4.454	6.461	6.748
60	4.250	4.125	12.700	4.825
75	4.043	4.130	4.261	5.874
100	3.875	3.919	3.921	4.249
150	3.850	3.817	3.720	3.830
200	3.800	3.750	3.800	

STANDARD DEVIATION-				
0	2.415	.969	2.753	1.101
5			3.614	.786
10	5.626	2.002	2.763	1.103
15	5.627	3.250	2.487	.335
20	5.392	4.319	2.980	1.214
25	4.357	3.648	2.723	.750
30	1.510	1.495	3.014	1.372
35	2.050	1.021	.557	1.883
40		.495	4.257	
45			3.298	.389
50	.206	.407	2.790	1.127
60	.071	.035		.672
75	.181	.179	.426	1.332
100	.072	.096	.278	.482
150	.107	.061	.057	.091
200			.141	

SAMPLE SIZE-				
0	58	55	57	51
5	1	1	3	10
10	58	52	54	51
15	7	8	14	3
20	49	45	42	43
25	9	9	17	10
30	32	25	21	29
35	3	4	3	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	20	19	17
150	8	6	5	8
200	1	1	2	

NITRATE MG/L

LAKE ONTARIO  
1972

DATE- 213-216 255-258 290-293 318-321

DEPTH M

MEAN-

DEPTH M	213-216	255-258	290-293	318-321
0	.076	.080	.135	.127
5	.032	.066	.157	.126
10	.090	.091	.134	.128
15	.124	.096	.127	.149
20	.129	.136	.141	.126
25	.128	.117	.120	.130
30	.149	.164	.140	.133
35	.109	.129	.103	.151
40	.194	.157	.161	
45	.138		.155	.105
50	.111	.139	.159	.138
60	.081	.139	.088	.121
75	.116	.057	.174	.138
100	.101	.127	.177	.151
150	.087	.088	.161	.142
200	.068	.142	.159	

STANDARD DEVIATION-

DEPTH M	213-216	255-258	290-293	318-321
0	.059	.043	.060	.032
5			.051	.014
10	.052	.037	.054	.028
15	.076	.046	.032	.010
20	.057	.051	.061	.029
25	.060	.056	.027	.030
30	.054	.047	.055	.027
35	.021	.041	.040	.035
40		.008	.026	
45			.051	.014
50	.057	.061	.059	.029
60	.048	.059		.008
75	.046	.027	.081	.028
100	.069	.071	.082	.052
150	.042	.023	.046	.051
200			.006	

SAMPLE SIZE-

DEPTH M	213-216	255-258	290-293	318-321
0	56	55	58	51
5	1	1	3	5
10	56	53	55	51
15	7	8	14	3
20	46	46	43	43
25	7	9	17	10
30	30	24	22	29
35	3	4	2	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	20	19	17
150	8	6	5	8
200	1	1	2	

## SULFATE MG/L

LAKE ONTARIO  
1972

DATE-	213-216	255-258	290-293	318-321
DEPTH M				
MEAN-				
0	27.672	27.018	27.121	27.275
5	26.800	28.000	26.667	27.600
10	27.845	27.019	27.145	27.118
15	28.143	27.250	27.786	26.333
20	27.980	27.326	26.977	27.302
25	27.778	27.556	27.588	27.100
30	28.063	27.500	27.091	27.241
35	28.000	28.000	27.000	26.667
40	27.000	27.000	27.333	
45	26.000		28.100	27.000
50	28.609	27.476	27.286	27.600
60	28.500	27.500	26.000	29.000
75	28.143	27.600	26.889	27.200
100	28.450	27.950	27.579	27.647
150	28.000	28.333	27.600	27.625
200	29.000	28.000	27.500	
STANDARD DEVIATION-				
0	1.205	1.097	1.911	.874
5			2.517	.894
10	1.121	1.065	1.919	.791
15	.690	1.165	1.968	1.528
20	.968	.920	1.739	.773
25	.972	.527	1.970	.568
30	.801	.722	2.091	.689
35	1.000		1.414	.577
40			1.155	
45			1.370	
50	.583	.680	2.164	1.095
60	.707	.707		1.414
75	.900	1.342	1.616	1.304
100	.945	.759	1.895	.996
150	.535	1.211	1.817	.518
200			4.950	
SAMPLE SIZE-				
0	58	55	58	51
5	1	1	3	5
10	58	53	55	51
15	7	8	14	3
20	49	46	43	43
25	9	9	17	10
30	32	24	22	29
35	3	4	2	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	20	19	17
150	8	6	5	8
200	1	1	2	

SILICA (SiO2) MG/L

LAKE ONTARIO  
1972

DATE-	213-216	255-258	290-293	318-321
DEPTH M				
MEAN-				
0	.132	.133	.384	.339
5	.100	.200	.367	.300
10	.147	.169	.387	.341
15	.186	.238	.400	.367
20	.215	.216	.386	.356
25	.300	.467	.394	.360
30	.284	.280	.400	.371
35	.433	.525	.350	.467
40	.300	.350	.467	
45	.700		.440	.500
50	.326	.338	.464	.395
60	.500	.450	.300	.800
75	.386	.500	.533	.380
100	.410	.550	.595	.559
150	.463	.783	.620	.713
200	1.000	.700	.750	
STANDARD DEVIATION-				
0	.061	.062	.164	.078
5			.252	.122
10	.077	.080	.147	.080
15	.121	.092	.147	.058
20	.102	.100	.151	.093
25	.100	.343	.143	.070
30	.148	.163	.141	.098
35	.208	.287	.212	.153
40		.212	.208	
45			.184	.141
50	.118	.160	.145	.105
60	.141	.071		.141
75	.146	.274	.212	.084
100	.129	.256	.161	.142
150	.151	.075	.277	.189
200			.071	
SAMPLE SIZE-				
0	53	51	58	51
5	1	1	3	5
10	55	49	55	51
15	7	8	14	3
20	47	45	43	43
25	9	9	17	10
30	32	25	22	28
35	3	4	2	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	20	19	17
150	8	6	5	8
200	1	1	2	

CALCIUM MG/L

LAKE ONTARIO  
1972

DATE-	213-216	255-258	290-293	318-321
DEPTH M				
MEAN-				
0	35.576	35.189	37.147	36.873
5	35.900	34.400	37.333	36.500
10	36.350	35.619	37.164	36.951
15	37.214	35.713	37.393	36.833
20	37.747	36.859	37.116	36.884
25	37.870	37.889	36.853	36.800
30	38.597	37.944	37.068	36.931
35	38.800	38.400	36.250	36.333
40	38.200	38.700	37.833	
45			37.350	35.750
50	38.591	37.929	37.607	37.200
60	39.400	38.700	37.500	37.500
75	38.714	38.060	38.111	37.700
100	38.770	38.485	38.079	37.912
150	38.650	38.800	38.100	37.750
200	39.400	38.400	38.000	

DEPTH M	STANDARD DEVIATION-			
0	1.735	.751	.874	.747
5			1.041	.707
10	1.842	1.047	.991	.743
15	2.076	1.051	.984	.289
20	1.359	1.298	.938	.885
25	1.321	1.464	1.012	1.006
30	.712	.617	.729	.894
35	1.039	.490	1.061	1.258
40		.424	1.155	
45			1.055	.354
50	.428	.918	.881	.696
60		.424		.707
75	.540	2.083	.741	.570
100	.532	.550	.507	.537
150	.424	.310	.652	.463
200				

DEPTH M	SAMPLE SIZE-			
0	58	55	58	51
5	1	1	3	4
10	58	53	55	51
15	7	8	14	3
20	49	46	43	43
25	9	9	17	10
30	32	25	22	29
35	3	4	2	3
40	1	2	3	
45			10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	20	19	17
150	8	6	5	8
200	1	1	2	

MAGNESIUM MG/L

LAKE ONTARIO  
1972

DATE-	213-216	255-258	290-293	318-321
DEPTH M				
MEAN-				
0	7.347	7.139	7.547	7.135
5	7.400	7.150	7.617	7.390
10	7.341	7.150	7.544	7.157
15	7.371	7.156	7.582	7.033
20	7.355	7.174	7.541	7.176
25	7.322	7.161	7.538	7.225
30	7.386	7.196	7.529	7.150
35	7.350	7.263	7.517	7.100
40	7.350	7.175	7.600	
45	7.350		7.555	7.300
50	7.422	7.212	7.521	7.111
60	7.450	7.225	7.500	7.275
75	7.414	7.230	7.600	7.113
100	7.432	7.233	7.547	7.159
150	7.388	7.258	7.570	7.213
200	7.500	7.300	7.500	
STANDARD DEVIATION-				
0	.068	.064	.086	.157
5			.058	.042
10	.073	.060	.084	.142
15	.107	.042	.080	.029
20	.081	.053	.087	.137
25	.115	.086	.085	.127
30	.079	.045	.101	.158
35	.087	.048	.058	.218
40		.035	.100	
45			.072	.071
50	.052	.061	.109	.136
60		.106		.177
75	.038	.027	.094	.202
100	.059	.044	.105	.135
150	.044	.049	.084	.164
200			.071	
SAMPLE SIZE-				
0	58	55	58	51
5	1	1	3	5
10	58	53	55	51
15	7	8	14	3
20	49	46	43	43
25	9	9	16	10
30	32	25	21	28
35	3	4	3	3
40	1	2	3	
45	1		10	2
50	23	21	14	19
60	1	2	1	2
75	7	5	9	4
100	20	20	19	17
150	8	6	5	8
200	1	1	2	



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 SPEC. COND. MICROMHOS

LAKE ONTARIO  
 1972  
 =====

DATE- 213-216 255-258 290-293 318-321

DEPTH M

MEAN-

DEPTH M	213-216	255-258	290-293	318-321
0	326.379	335.407	349.105	349.216
5	321.000	335.000	345.667	353.200
10	333.603	339.830	349.667	349.980
15	338.571	341.625	349.500	353.000
20	342.714	348.804	350.024	351.233
25	343.778	352.889	349.188	350.900
30	348.188	354.640	352.091	352.310
35	352.000	361.750	344.000	352.000
40	352.000	357.500	354.000	
45	355.000		349.800	353.500
50	350.304	355.905	353.786	353.700
60	352.500	358.500	350.000	352.000
75	351.571	358.400	356.556	354.000
100	352.050	358.368	356.526	357.118
150	350.250	359.333	353.600	357.000
200	355.000	354.000	360.500	

STANDARD DEVIATION-

DEPTH M	213-216	255-258	290-293	318-321
0	10.043	6.126	6.605	4.249
5			8.963	8.162
10	9.581	7.516	6.009	4.047
15	8.223	7.090	6.149	5.196
20	8.198	8.057	6.856	3.449
25	7.138	8.238	6.765	5.238
30	7.032	5.353	5.927	3.781
35	3.000	6.652	1.414	2.646
40		3.536	11.358	
45			6.795	.707
50	6.041	4.449	5.912	3.701
60	4.950	.707		
75	5.287	3.507	5.593	4.301
100	5.501	6.103	5.327	3.498
150	6.228	7.501	2.702	4.071
200			.707	

SAMPLE SIZE-

DEPTH M	213-216	255-258	290-293	318-321
0	58	54	57	51
5	1	1	3	10
10	58	53	54	51
15	7	8	14	3
20	49	46	42	43
25	9	9	16	10
30	32	25	22	29
35	3	4	2	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	19	19	17
150	8	6	5	8
200	1	1	2	

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TOTAL SUSP. MAT. MG/L

LAKE ONTARIO  
1972  
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DATE-	213-216	255-258	290-293	318-321
DEPTH M				
	MEAN-			
0	3.267	4.858	2.029	1.957
5	2.300	4.100	2.833	1.460
10	3.172	4.492	2.175	1.947
15	3.614	3.688	2.343	3.667
20	2.982	3.961	1.930	1.865
25	2.811	4.222	1.888	1.800
30	2.631	3.640	1.773	2.086
35	2.367	5.525	2.850	1.733
40	1.500	2.550	1.567	
45	4.500		1.810	1.150
50	2.261	3.300	1.750	1.955
60	3.050	4.700	2.300	.750
75	2.471	3.140	1.733	2.060
100	2.245	3.237	1.821	1.882
150	2.088	3.633	1.740	1.400
200	3.400	2.200	1.800	

	STANDARD DEVIATION-			
0	1.020	1.639	.965	.784
5			1.531	.219
10	.824	1.778	1.255	.891
15	1.302	1.841	.852	2.801
20	1.032	1.670	.959	.879
25	.957	1.836	.916	.849
30	.965	1.549	.770	.961
35	1.106	2.962	.071	.961
40		.495	.231	
45			1.238	.778
50	.671	1.400	1.041	.977
60	.212	1.556		.212
75	.750	.445	1.011	1.405
100	1.084	1.455	1.119	.699
150	.662	1.141	.439	.524
200			.424	

	SAMPLE SIZE-			
0	58	55	58	51
5	1	1	3	5
10	58	53	55	51
15	7	8	14	3
20	49	46	43	43
25	9	9	17	10
30	32	25	22	29
35	3	4	2	3
40	1	2	3	
45	1		10	2
50	23	21	14	20
60	2	2	1	2
75	7	5	9	5
100	20	19	19	17
150	8	6	5	8
200	1	1	2	