

dr. 002

Appendix A. LINGUISTICAL DATA

LIMNOLOGICAL DATA
LAKE ERIC

CRUISE 6501

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	TOTAL CA CO3	P TOTAL CA CO3	SPEC. COND.	PH	SH VELYS	DO MG/L	DO PCT. SAT.	TOT. SUSP MAT#	COLI 100ML
STATION 50	MONTH 7	DAY 7	HOOR 12.3	JULIAN DAY 189	LATITUDE 42.310N	LONGITUDE 81.080W													
0.	20.10	36.	24.6	51.	11.5	11.3	.9	105.	2.5	293.	8.39	8.75	99.						
5.	19.30	35.	24.1	51.	11.3	12.0	1.2	105.	2.5	295.	8.37	8.75	97.						
10.	18.76	33.	23.6	50.	11.3	11.0	1.2	105.	3.1	294.	8.42	8.70	96.						
15.	18.72	35.	23.6	51.	10.3	12.6	1.2	105.	3.1	294.	8.41	8.54	94.						
18.	9.90	36.	23.6	50.	10.7	12.9	1.2	106.	0.0	292.	8.64	7.87	72.						
21.30																			
STATION 51	MONTH 7	DAY 8	HOOR 14.6	JULIAN DAY 189	LATITUDE 42.250N	LONGITUDE 81.320W													
0.	20.30	41.	23.7	52.	11.3	11.9	1.2	104.	2.2	294.	8.36	8.47	96.						
5.	18.90	39.	24.1	51.	10.6	11.3	1.3	103.	2.5	294.	8.24	8.58	95.						
10.	18.76	34.	23.6	49.	10.9	12.9	1.0	103.	2.8	296.	8.43	8.64	95.						
15.	18.62	30.	25.7	51.	11.0	11.2	.9	103.	2.2	290.	8.34	8.52	94.						
20.	8.85	38.	24.6	51.	11.5	11.9	1.2	104.	0.0	298.	7.75	7.91	70.						
22.48																			
STATION 52	MONTH 7	DAY 8	HOOR 14.0	JULIAN DAY 189	LATITUDE 42.350N	LONGITUDE 81.370W													
0.	19.90	36.	23.7	51.	9.6	11.7	1.2	102.	0.0	290.	8.19	8.57	94.						
5.	18.90	41.	23.3	52.	11.2	11.2	1.2	102.	2.5	289.	8.34	8.72	97.						
10.	18.70	40.	22.2	53.	10.7	11.6	1.2	99.	2.0	278.	8.25	8.70	94.						
15.	18.62	41.	24.5	52.	11.4	11.6	1.2	104.	2.5	292.	8.37	8.75	96.						
20.	10.17	38.	23.2	50.	11.0	11.0	1.2	106.	0.0	300.	7.67	7.70	71.						
21.98																			
STATION 53	MONTH 7	DAY 8	HOOR 17.6	JULIAN DAY 189	LATITUDE 42.380N	LONGITUDE 81.610W													
0.	19.60	36.	23.6	47.	11.2	13.1	.9	104.	3.4	288.	8.48	8.68	97.						
5.	19.31	35.	24.6	48.	9.6	13.0	1.0	100.	2.0	290.	8.47	8.82	98.						
10.	18.74	41.	24.6	50.	11.2	10.9	1.1	104.	3.1	289.	8.43	8.97	99.						
15.	18.62	36.	25.0	48.	10.7	12.4	.9	103.	2.8	290.	8.40	8.72	96.						
20.	9.18	35.	24.2	48.	11.4	12.5	1.2	103.	0.0	295.	7.79	6.74	61.						
20.70																			
STATION 54	MONTH 7	DAY 9	HOOR 8.5	JULIAN DAY 190	LATITUDE 42.240N	LONGITUDE 81.810W													
0.	19.90	43.	23.9	46.	11.0	11.4	1.3	102.	2.2	285.	8.38	8.69	97.						
5.	19.60	44.	24.5	46.	10.4	11.3	1.2	99.	3.1	290.	8.40	8.89	100.						
10.	18.65	45.	23.5	48.	10.8	10.9	1.2	105.	0.0	297.	7.04	7.45	73.						
16.	8.58	45.	24.6	47.	11.0	11.5	1.2	104.	0.0	298.	7.52	6.63	59.						
18.90																			
STATION 55	MONTH 7	DAY 9	HOOR 10.2	JULIAN DAY 190	LATITUDE 42.120N	LONGITUDE 81.740W													
0.	23.24	55.	23.4	47.	11.0	11.9	1.3	104.	3.1	294.	8.50	9.00	102.						
5.	20.14	52.	24.6	49.	11.1	12.1	.8	105.	3.1	295.	8.45	8.89	101.						
10.	19.94	51.	24.0	49.	11.2	12.3	1.2	103.	2.8	294.	8.45	8.95	101.						
15.	19.03	53.	25.4	48.	11.4	12.6	1.2	104.	2.5	296.	8.42	8.70	98.						
20.	8.65	53.	24.2	48.	10.5	11.4	1.2	102.	0.0	299.	7.78	7.18	64.						
23.58																			
STATION 57	MONTH 7	DAY 9	HOOR 12.3	JULIAN DAY 190	LATITUDE 42.040N	LONGITUDE 82.040W													
0.	20.00	50.	24.7	45.	10.4	10.3	1.2	97.	2.5	288.	8.45	8.74	95.						
5.	20.10	55.	23.4	45.	10.9	12.7	1.2	95.	2.0	284.	8.45	8.66	95.						
10.	19.60	50.	24.2	47.	10.7	11.6	1.2	100.	2.2	290.	8.45	8.55	96.						
15.	19.25	54.	23.0	47.	11.4	11.2	1.2	101.	2.2	290.	8.36	8.51	95.						
18.	9.70	54.	24.4	49.	10.8	11.9	1.3	102.	0.0	290.	7.74	6.28	57.						
21.60																			
STATION 59	MONTH 7	DAY 9	HOOR 14.9	JULIAN DAY 190	LATITUDE 41.880N	LONGITUDE 82.300W													
0.	21.86	50.	20.0	48.	9.9	4.8	363.	8.65	8.61	101.									
5.	21.75	49.	19.9	48.	9.8	4.2	263.	8.64	8.52	99.									
10.	18.04	48.	20.0	48.	10.1	0.0	292.	7.56	5.94	65.									
14.00																			
STATION 61	MONTH 7	DAY 10	HOOR 9.0	JULIAN DAY 191	LATITUDE 41.950N	LONGITUDE 82.630W													
0.	22.14	45.	19.4	44.	11.4	9.6	1.2	100.	4.2	272.	8.76	8.12	95.						
5.	22.09	37.	19.6	44.	11.0	22.7	1.2	102.	4.2	272.	8.68	7.99	94.						
8.	21.94	43.	19.5	44.	11.0	25.0	1.2	100.	4.2	272.	8.68	7.64	92.						
10.78																			
STATION 62	MONTH 7	DAY 10	HOOR 9.8	JULIAN DAY 191	LATITUDE 41.850N	LONGITUDE 82.860W													
0.	22.14	33.	15.0	39.	10.3	1.0	1.0	94.	4.0	244.	8.81	8.82	104.						
5.	22.00	35.	16.9	40.	10.7	24.6	1.0	100.	5.0	244.	8.72	8.84	101.						
8.	21.89	33.	15.1	40.	10.6	23.7	1.0	95.	5.0	244.	8.65	8.17	96.						
10.40																			
STATION 63	MONTH 7	DAY 10	HOOR 12.2	JULIAN DAY 191	LATITUDE 41.970N	LONGITUDE 83.350W													
0.	22.15	35.	18.2	40.	10.1	25.6	.9	90.	1.1	243.	8.40	8.44	105.						
5.	21.67	32.	17.4	39.	9.2	24.6	.9	92.	1.1	243.	8.31	8.20	98.						
7.	21.41	36.	17.1	40.	9.2	24.9	.8	90.	0.0	242.	8.20	7.80	90.						
P.20																			

LYMNOLOGICAL DATA
LARC 041C

CRUISE 6561

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	STO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	T.ALP CAC03 MG/L	P.ALK CAC03 MG/L	SPEC. COND. MICRO-MHOS	PH	EM VOLTS	DO MG/L	CO PCT SAT.	TOY. SUSP MATR MG/L	TOTAL COLI 100ML
M	C	N	P																
STATION 64	MONTH 7	DAY 14	HOUR 9.7	JULIAN DAY 195	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	22.67	0.00	.131	33.	17.6		40.	6.0	7.5	1.0	96.	0.0	246.	7.9P		6.65	79.		
5.	22.31	0.00	.215	32.	16.6		40.	6.4	7.4	1.0	92.	0.0	244.	7.51		6.97	82.		
6.9B																			

CRUISE 6502

STATION 1	MONTH 7	DAY 15	HOUR 9.1	JULIAN DAY 194	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	22.29	0.00	.215	32.	11.8		37.	5.2	5.7	1.0	96.	0.0	224.	8.20		7.45	PE.		
5.	21.97	0.00	.130	33.	10.8		37.	5.1	5.0	1.0	94.	.6	230.	8.27		7.42	87.		
8.4B																			
STATION 2	MONTH 7	DAY 15	HOUR 10.3	JULIAN DAY 194	LATITUDE 41.900N	LONGITUDE 83.080W													
0.	22.42	0.00	.183	37.	19.9		36.	6.4	10.3	.9	96.	4.3	253.	8.76		6.13	96.		
5.	21.99	0.00	.271	34.	17.9		38.	6.3	9.4	.5	90.	3.4	246.	8.49		7.83	92.		
8.	21.01	0.00	.158	32.	18.4		39.	6.4	9.7	.9	91.	.6	247.	8.25		7.65	89.		
9.1P																			
STATION 3	MONTH 7	DAY 15	HOUR 11.7	JULIAN DAY 194	LATITUDE 41.800N	LONGITUDE 83.130W													
0.	23.75	0.00	.039	41.	18.3		41.		5.8	1.1	90.		266.	8.54		9.25	112.		
5.	22.79	0.00	.046	49.	19.1		43.		10.0	1.2	91.		270.	8.75		7.53	94.		
7.	22.64	0.00	.095	41.	18.6		42.		10.1	1.1	93.		268.	8.41		7.58	90.		
8.8B																			
STATION 4	MONTH 7	DAY 15	HOUR 12.5	JULIAN DAY 194	LATITUDE 41.720N	LONGITUDE 83.160W													
0.	23.97	0.00	.085	43.	17.5		43.	7.4	9.3	1.1	91.	6.7	266.	8.92		9.4P	115.		
5.	22.71	0.00	.104	41.	18.1		42.	7.5	9.6	1.1	95.	3.4	268.	8.59		7.46	89.		
7.	22.63	0.00	.069	40.	18.0		44.	7.1	9.5	1.1	97.	2.0	266.	8.40		7.30	86.		
7.9B																			
STATION 5	MONTH 7	DAY 15	HOUR 13.4	JULIAN DAY 194	LATITUDE 41.640N	LONGITUDE 82.950W													
0.	21.04	0.00	.069	51.	16.2		47.	7.4	10.0	1.2		2.8	285.	8.61		6.55	104.		
5.	21.15	.16	.069	49.	16.6		47.	7.1	10.2	1.3	87.	2.5	287.	8.50		6.2P	61.		
7.	22.99	0.00	.062	49.	18.9		47.	6.9	10.1	1.3	102.	3.4	286.	8.64		6.72	80.		
7.5B																			
STATION 6	MONTH 7	DAY 16	HOUR 8.2	JULIAN DAY 197	LATITUDE 41.680N	LONGITUDE 82.940W													
0.	22.52	0.00	.150	44.	18.2		46.	8.8	10.1	1.1	97.	2.2	275.	8.54		6.60	102.		
0.	22.48	0.00	.095	43.	18.9		45.	6.9	10.0	1.2	99.	2.8	276.	8.56		7.67	91.		
10.	21.44	0.00	.225	43.	19.0		45.	7.7	10.1	1.2	96.	1.7	279.	8.45		6.99	81.		
11.9B																			
STATION 7	MONTH 7	DAY 16	HOUR 9.8	JULIAN DAY 197	LATITUDE 41.530N	LONGITUDE 82.990W													
0.	22.43	0.00	.046	45.	21.1		47.	8.1	10.1	1.3	98.	2.8	286.	8.59		6.72	104.		
5.	22.37	0.00	.078	45.	20.8		47.	7.7	10.2	1.2	98.	2.5	286.	8.51		6.73	103.		
10.	22.1P	0.00	.020	44.	21.0		48.	7.7	10.5	1.2	99.	2.6	286.	8.56		6.69	102.		
13.4B																			
STATION 8	MONTH 7	DAY 16	HOUR 11.4	JULIAN DAY 197	LATITUDE 41.520N	LONGITUDE 82.410W													
0.	22.40	0.00	.013	73.	21.2		48.	7.6	10.4	1.3	99.	2.2	292.	8.58		6.76	104.		
5.	22.23	0.00	.000	48.	22.2		48.	7.7	10.6	1.3	95.	2.2	293.	8.56		6.75	103.		
10.	21.96	0.00	.003	45.	22.3		49.	8.1	10.6	1.3	99.	1.7	294.	8.45		6.4P	99.		
14.6P																			
STATION 9	MONTH 7	DAY 16	HOUR 13.2	JULIAN DAY 197	LATITUDE 41.540N	LONGITUDE 82.210W													
0.	22.35	0.00	.062	50.	23.0		48.	8.7	10.7	1.3	99.	2.2	298.	8.52		6.61	102.		
5.	22.11	0.00	.078	46.	22.9		48.	8.1	10.8	1.3	100.	1.7	298.	8.49		6.73	103.		
10.	21.82	.31	.085	46.	22.0		48.	8.1	10.7	1.3	100.	1.4	300.	8.38		6.20	98.		
13.	13.77	0.00	.290	47.	24.8		50.	7.8	11.6	1.3	102.	0.5	316.	7.69		3.43	34.		
14.9B																			
STATION 10	MONTH 7	DAY 16	HOUR 15.3	JULIAN DAY 197	LATITUDE 41.570N	LONGITUDE 82.000W													
0.	22.36	0.00	.046	49.	23.7		48.	8.4	11.5	1.3	100.	1.7	303.	8.49		6.42	102.		
5.	21.85	0.00	.062	48.	24.2		52.	8.1	11.5	1.3	100.	1.1	302.	8.46		6.80	103.		
10.	20.74	0.00	.046	43.	24.7		50.	8.0	11.7	1.2	100.	.8	305.	8.22		6.46	97.		
14.	13.52	0.00	.280	49.	25.3		50.	7.0	11.4	1.2	102.	3.0	316.	7.61		6.04	40.		
15.5P																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUTCH 6582

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	TOTAL CALK CACOS	P.ALK CACOS	SPEC. COND. MICRO-	PH	EM VOLTS	CC MG/L	DO SAT.	TOT. SUSP. MAT.	TOTAL SOLID 100ML
F	C	%	P														%	MG/L	100ML
STATION 11 MONTH 7 DAY 20 HOUR 13.3 JULIAN DAY 201 LATITUDE 41.610N LONGITUDE 81.820W																			
0.	22.05	0.00	.030	51.	24.5	50.	8.0	11.6	1.3	99.	3.5	305.	8.62			8.93	105.		
5.	21.97	0.00	.033	47.	24.7	51.	8.0	11.3	1.3	98.	4.5	305.	8.61			8.96	105.		
10.	23.84	0.00	.095	49.	25.0	50.	8.4	11.5	1.2	95.	3.4	305.	8.60			8.80	104.		
15.	13.31			51.	25.4	43.	10.0	11.2	1.2	103.	0.6	311.	7.70			4.20	41.		
18.38																			
STATION 12 MONTH 7 DAY 20 HOUR 12.3 JULIAN DAY 201 LATITUDE 41.540N LONGITUDE 81.790W																			
0.	21.37	0.00	.046	44.	25.2	49.	7.9	11.5	1.3	95.	1.1	303.	8.66			8.95	101.		
5.	22.29	0.00	.046	46.	25.7	49.	8.1	11.5	1.3	106.	3.9	304.	8.62			8.85	104.		
10.	21.65	0.00	.048	46.	24.6	50.		11.4	1.2	102.	2.8	304.	8.59			8.64	104.		
15.	14.30	0.00	.150	49.	25.8	50.	8.1	11.4	1.3	104.	0.0	310.	8.12			8.25	98.		
15.88																			
STATION 13 MONTH 7 DAY 20 HOUR 14.9 JULIAN DAY 201 LATITUDE 41.540N LONGITUDE 81.620W																			
0.	22.02	0.00		51.	27.4	47.	8.2	12.8	1.3	99.	3.4	317.	8.58			8.61	101.		
5.	21.97	0.00	.078	55.	27.3	51.	8.7	12.1	1.3	96.	3.4	317.	8.55			8.67	102.		
10.	21.60	0.00	.039	51.	27.4	53.	8.9	11.9	1.3	99.	2.8	318.	8.50			8.78	98.		
15.	13.78	0.00		50.	26.2	48.	8.4	11.5	1.3	104.	0.2	316.	7.65			3.64	36.		
16.18																			
STATION 14 MONTH 7 DAY 22 HOUR 12.7 JULIAN DAY 203 LATITUDE 41.700N LONGITUDE 81.450W																			
0.	21.53	0.00	.052	45.	30.9	52.	8.8	13.1	1.3	92.	5.1	336.	8.59			9.10	106.		
5.	21.16	0.00	.052	43.	31.0	53.	7.7	13.0	1.3	90.	4.0	336.	8.50			9.26	107.		
10.	15.35	0.00		49.	26.0	48.	6.5	11.6	1.3	94.	0.0	321.	7.89			3.80	39.		
12.28																			
STATION 15 MONTH 7 DAY 22 HOUR 14.2 JULIAN DAY 203 LATITUDE 41.780N LONGITUDE 81.520W																			
0.	21.70	0.00	.039	46.	27.0	55.	5.3	11.8	1.3	89.	5.1	318.	8.62			9.59	111.		
5.	21.91	0.00	.039	48.	26.1	54.	5.3	11.9	1.3	89.	4.2	316.	8.65			9.48	111.		
10.	21.25	.37	.052	52.	25.9	50.	6.9	11.5	1.3	90.	3.4	316.	8.63			9.48	110.		
15.	18.05	0.00	.069	46.	23.6	50.	6.3	10.4	1.2	95.	.8	308.	8.25			7.98	87.		
20.	10.96	0.00	.225	45.	25.1	48.	6.0	11.2	1.2	95.	0.0	314.	7.81			4.90	46.		
21.08																			
STATION 17 MONTH 7 DAY 22 HOUR 16.2 JULIAN DAY 203 LATITUDE 41.780N LONGITUDE 81.280W																			
0.	21.72	0.00	.225	50.	28.0	52.	6.8	12.3	1.2	90.	3.4	321.	8.59			9.30	108.		
5.	21.27	0.00	.078	54.	28.2	52.	7.2	12.3	1.3	85.	4.2	321.	8.62			5.41	109.		
10.	13.21	0.00	.039	46.	27.0	50.	5.9	11.7	1.3	95.	0.0	320.	7.81			4.64	46.		
11.65																			
STATION 18 MONTH 7 DAY 22 HOUR 17.8 JULIAN DAY 203 LATITUDE 41.870N LONGITUDE 81.100W																			
0.	21.56	0.00	.082	57.	28.9	48.	6.4	12.0	1.3	88.	3.4	325.	8.61			9.22	107.		
5.	21.70	0.00	.046	51.	28.9	50.	6.7	12.6	1.3	90.	3.4	324.	8.61			9.27	108.		
10.	18.98	0.00	.085	42.	26.9	48.	6.6	12.3	1.3	90.	3.4	323.	8.52			6.84	100.		
15.	11.64	.31	.408	36.	22.7	52.	7.5	11.4	1.3	95.	0.0	311.	7.72			5.02	48.		
18.08																			
STATION 19 MONTH 7 DAY 23 HOUR 8.6 JULIAN DAY 204 LATITUDE 41.950N LONGITUDE 80.850W																			
0.	21.20	0.00	.046	41.	25.0	52.	6.7	12.1	1.4	89.	3.0	307.	8.50			8.69	108.		
5.	21.24	0.00	.033	40.	25.8	52.	6.7	12.1	1.3	90.	2.3	307.	8.47			8.10	105.		
10.	21.15	.23	.046	38.	22.4	52.	7.2	12.1	1.2	80.	2.3	307.	8.47			9.04	104.		
15.	11.81	0.00	.296	39.	20.6	52.	7.6	11.3	1.3	84.	0.0	305.	7.61			5.72	67.		
17.70																			
STATION 20 MONTH 7 DAY 23 HOUR 10.9 JULIAN DAY 204 LATITUDE 42.170N LONGITUDE 80.770W																			
0.	20.61	0.00	.062	48.	22.0	51.	7.7	11.2	1.3	92.	2.3	302.	8.45			8.87	101.		
5.	20.55	0.00	.062	49.	23.7	52.	6.9	11.2	1.2	91.	2.3	302.	8.41			8.99	103.		
10.	20.66	0.00	.052	37.	22.3	52.	7.2	11.2	1.4	92.	1.5	301.	8.40			8.94	102.		
15.	16.02	0.00	.045	40.	22.8	51.	7.2	11.2	1.4	94.	0.0	302.	8.20			8.32	97.		
20.	10.61	0.00	.114	32.	22.1	53.	7.4	11.0	1.3	96.	0.0	304.	7.25			6.51	60.		
22.38																			
STATION 21 MONTH 7 DAY 23 HOUR 12.9 JULIAN DAY 204 LATITUDE 41.980N LONGITUDE 80.680W																			
0.	21.77	0.00	.026	58.	23.7	51.	7.2	11.7	1.4	91.	2.3	306.	8.44			8.85	103.		
5.	21.05	.07	.033	60.	23.8	51.	7.5	11.4	1.3	91.	2.3	308.	8.41			8.87	102.		
10.	20.95	0.00	.033	56.	23.9	51.	8.1	11.4	1.3	91.	2.3	307.	8.41			8.70	101.		
15.	12.41	0.00	.476	51.	23.9	52.	8.0	11.4	1.3	94.	0.0	313.	8.41			4.23	41.		
15.46																			
STATION 22 MONTH 7 DAY 23 HOUR 14.8 JULIAN DAY 204 LATITUDE 42.050N LONGITUDE 80.480W																			
0.	22.34	0.00	.003	50.	25.8	51.	6.9	12.1	1.3	90.	2.3	312.	8.49			8.93	105.		
5.	21.52	0.00	.046	64.	25.8	52.	7.0	12.2	1.3	88.	2.3	312.	8.41			8.68	106.		
10.	21.27	0.00	.020	64.	26.3	52.	7.1	12.0	1.3	90.	1.6	314.	8.35			8.45	100.		
13.38																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6502

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	R MG/L	TALK MG/L	PALK MG/L	SPEC COND.	PH	CH VCLTS	CO MG/L	DO PC1	TOTL SUSP MATR	TOTAL CGLI
P	C	R	P	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	CACDS	CACDS	MICRO-MHDS				SAT.	MATR	TOTAL
STATION 35 MONTH 7 DAY 25 HOUR 15.3 JULIAN DAY 206 LATITUDE 42.820N LONGITUDE 79.280W																			
0.	20.81	.13	.033	44.	25.3		50.	6.6	11.0	1.3	91.	2.3	310.	A.52		8.81		A.81	101.
5.	20.87		.062	41.	24.3		51.	6.4	11.1	1.3	91.	2.3	310.	A.51		8.27		A.27	102.
10.	19.10	0.00	.046	37.	24.0		51.	6.6	11.0	1.3	93.	1.5	311.	B.32		7.89		7.89	88.
15.	10.68	0.00	.130	41.	24.1		52.	6.7	11.2	1.3	96.	0.0	316.	7.69		5.15		5.15	54.
18.68																			
STATION 36 MONTH 7 DAY 26 HOUR 9.1 JULIAN DAY 207 LATITUDE 42.800N LONGITUDE 79.490W																			
0.	21.09	0.00	.010	42.	23.8		49.	5.9	10.9	1.3	93.	2.6	309.	A.49		8.22		8.22	95.
5.	20.60	0.00	.052	39.	23.0		49.	7.2	11.1	1.3	92.	2.6	309.	A.49		8.26		8.26	95.
10.	20.62	0.00	.026	38.	23.6		51.	6.4	10.6	1.3	91.	2.6	309.	B.50		8.12		8.12	93.
17.	9.90	0.00	.150	41.	23.8		52.	6.8	11.1	1.3	96.	0.0	316.	7.63		6.16		6.16	56.
20.48																			
STATION 37 MONTH 7 DAY 26 HOUR 11.2 JULIAN DAY 207 LATITUDE 42.660N LONGITUDE 79.660W																			
0.	19.07	0.00	.078	36.	23.8		49.	6.6	11.2	1.4	89.	4.0	309.	B.61		8.33		8.33	93.
5.	19.70	0.00	.062	43.	23.0		51.	7.0	11.0	1.3	90.	3.3	305.	B.60		8.20		8.20	91.
10.	18.07	0.00	.069	43.	24.0		48.	7.0	11.1	1.3	90.	2.6	308.	B.57		8.19		8.19	89.
20.	6.47	0.00	.078	41.	23.8		50.	6.8	10.9	1.4	93.	0.0	310.	7.88		7.69		7.69	65.
30.	5.97	0.00	.121	39.	23.7		49.	7.2	10.9	1.3	94.	0.0	310.	7.82		7.93		7.93	66.
32.65																			
STATION 39 MONTH 7 DAY 26 HOUR 13.3 JULIAN DAY 207 LATITUDE 42.620N LONGITUDE 80.000W																			
0.	19.40	0.00	.039	41.	23.8		49.	6.2	11.2	1.3	90.	4.0	310.	B.59		8.44		8.44	95.
10.	18.17	0.00	.033	38.	23.6		53.	6.2	10.9	1.3	93.	3.3	310.	B.53		8.55		8.55	93.
20.	7.64	0.00	.052	40.	24.3		50.	7.2	10.9	1.4	95.	0.0	314.	Y.89		7.28		7.28	63.
30.	5.21			28.	23.8			5.4	10.9		95.	0.0	313.	B.50		8.91		8.91	81.
40.	4.37	0.00	.026	28.	23.8		52.	6.0	10.9	1.4	96.	0.0	315.	7.91		9.43		9.43	75.
41.88																			
STATION 40 MONTH 7 DAY 26 HOUR 15.2 JULIAN DAY 207 LATITUDE 42.520N LONGITUDE 79.940W																			
0.	18.60	0.00	.020	30.	23.4		50.	5.8	11.0	1.3	92.	3.3	309.	B.59		8.39		8.39	93.
10.	18.20	.02		41.	23.4		53.	7.6	10.8	1.2	92.	2.6	310.	B.53		8.45		8.45	92.
20.	6.10	0.00		45.	24.0		53.	7.5	10.8	1.2	94.	0.0	311.	B.51		9.56		9.56	80.
30.	4.72	0.00		42.	23.8		52.	7.4	10.8	1.2	94.	0.0	310.	B.61		10.42		10.42	84.
40.	4.38	0.00		43.	23.8		53.	8.5	10.8	1.2	96.	0.0	313.	7.96		9.86		9.86	71.
50.	4.30	0.00		43.	23.8		52.	7.7	10.8	1.2	96.	0.0	313.	7.94		9.67		9.67	77.
62.29																			
STATION 41 MONTH 7 DAY 26 HOUR 17.3 JULIAN DAY 207 LATITUDE 42.430N LONGITUDE 79.960W																			
0.	18.00	.17	.130	42.	23.7		50.	8.5	11.0	1.2	92.	2.6	312.	B.53		8.47		8.47	92.
15.	17.60	0.00		41.	23.7		52.	8.0	11.0	1.3	92.	2.6	311.	B.55		8.47		8.47	91.
20.	13.53	.20	.085	47.	23.8		50.	8.2	7.0	1.2	94.	0.0	315.	7.63		7.39		7.39	68.
30.	4.98	.23	.163	42.	23.0		51.	7.6	10.8	1.2	95.	0.0	316.	A.60		9.56		9.56	77.
40.	4.28	0.00		44.	23.0		53.	7.7	10.9	1.2	96.	0.0	317.	7.99		5.52		5.52	76.
45.48																			
STATION 42 MONTH 7 DAY 26 HOUR 18.2 JULIAN DAY 207 LATITUDE 42.370N LONGITUDE 79.920W																			
0.	19.30	0.00	.026	34.	23.8		53.	6.8	11.1	1.2	92.	3.3	312.	B.59		8.47		8.47	95.
10.	18.50	0.00	.095	42.	23.0		53.	7.5	10.9	1.2	91.	3.3	311.	B.59		8.56		8.56	94.
20.	5.05	0.00		38.	23.6		53.	7.8	11.0	1.2	96.	0.0	316.	7.09		9.74		9.74	79.
30.	5.06	0.00	.069	41.	23.8		52.	7.9	10.8	1.2	97.	0.0	317.	B.90		9.42		9.42	76.
35.	4.95	0.00	.150	38.	23.8		54.	7.7	10.9	1.3	98.	0.0	318.	7.98		9.73		9.73	75.
39.78																			
STATION 43 MONTH 7 DAY 27 HOUR 9.8 JULIAN DAY 208 LATITUDE 42.160N LONGITUDE 80.330W																			
0.	20.70	0.00	.026	35.	25.4		52.	8.2	11.4	1.2	94.	3.3	315.	B.55		8.40		8.40	95.
5.	20.70	0.00	.104	38.	24.4		53.	8.6	11.5	1.2	92.	2.6	316.	A.52		8.43		8.43	95.
10.	21.95	0.00	.114	35.	24.9		53.	8.0	11.4	1.2	92.	2.6	315.	B.53		8.40		8.40	98.
15.	12.96	.44	.114	36.	24.2		54.	7.4	11.2	1.2	96.	0.0	319.	7.89		5.21		5.21	51.
20.	7.68	0.00		51.	24.3		53.	7.4	11.0	1.2	96.	0.0	318.	7.96		7.41		7.41	58.
23.58																			
STATION 44 MONTH 7 DAY 27 HOUR 11.4 JULIAN DAY 208 LATITUDE 42.250N LONGITUDE 80.330W																			
0.	22.10	0.00		51.	24.4		53.	7.4	10.8	1.2	94.	2.6	321.	B.49		8.91		8.91	68.
10.	21.62	0.00		51.	24.3		53.	7.2	11.0	1.2	94.	2.6	318.	B.50		7.71		7.71	73.
15.	14.54	.04		54.	24.3		50.	7.6	10.9	1.2	96.	0.0	314.	B.10		8.39		8.39	92.
18.	13.49	.44	.121	53.	24.3		51.	7.8	10.9	1.3	98.	0.0	314.	B.60		8.45		8.45	90.
17.82																			
STATION 45 MONTH 7 DAY 27 HOUR 15.0 JULIAN DAY 208 LATITUDE 42.330N LONGITUDE 80.400W																			
0.	21.74	.13	.104	50.	24.2		49.	8.2	10.9	1.2	93.	2.6	314.	B.63		8.39		8.39	94.
5.	21.88	0.00		52.	24.2		50.	8.6	10.9	1.3	93.	2.0	314.	B.49		8.43		8.43	94.
10.	21.43	0.00		51.	24.4		50.	8.0	10.8	1.2	94.	2.6	313.	B.50		8.46		8.46	98.
15.	16.01	0.00		50.	24.3		53.	7.1	10.8	1.2	99.	0.0	319.	8.03		6.55		6.55	69.
18.38																			

LYNDOLOGICAL DATA

LAKE EPIE

CRUISE 6507

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TALK CAC03 MG/L	PALK CAC03 MG/L	SPEC. COND. MICRO-MHOS	PH VOLTS	FM	CO MG/L	DO PCT SAT.	TOTAL SUSP MAT. MG/L	TOTAL COLI 100ML	
STATION 46	MONTH 7	DAY 27	HOUR 14.8	JULIAN DAY 208	LATITUDE 42.470N	LONGITUDE 80.460W														
0.	21.90	0.00	0.000	51.	23.4	48.	7.4	10.6	1.2	93.	2.6	313.	8.50				8.51	100.		
5.	21.65	0.00	0.000	53.	24.8	50.	7.6	10.7	1.3	92.	2.6	313.	8.49				8.62	100.		
10.	21.38	0.00	0.000	47.	24.1	50.	7.4	10.6	1.2	92.	2.6	312.	8.51				8.70	102.		
15.	21.70	0.00	0.000	53.	24.2	52.	7.6	10.7	1.2	94.	0.0	323.	7.91				5.84	58.		
18.3P																				
STATION 47	MONTH 7	DAY 27	HOUR 16.5	JULIAN DAY 208	LATITUDE 42.520N	LONGITUDE 80.680W														
0.	21.84	0.00	0.020	36.	24.3	54.	7.6	11.0	1.2	94.	3.3	316.	8.56				8.71	102.		
10.	19.38	0.00	0.000	47.	24.3	49.	7.6	10.6	1.2	92.	0.0	318.	8.40				8.05	93.		
15.	12.95	0.00	0.052	44.	24.3	52.	7.5	10.5	1.3	100.	0.0	323.	7.85				5.82	55.		
17.7P																				
STATION 48	MONTH 7	DAY 28	HOUR 9.0	JULIAN DAY 209	LATITUDE 42.520N	LONGITUDE 80.930W														
0.	21.74	0.00	0.000	36.	23.3	48.	6.8	10.4	1.2	94.	3.3	304.	8.61				8.84	84.		
10.	21.38	0.00	0.000	48.	24.1	48.	8.8	10.7	1.3	95.	3.3	304.	8.57				8.51	49.		
17.	11.63	0.00	0.121	55.	23.6	52.	7.2	10.7	1.3	100.	0.0	323.	7.83				5.88	69.		
18.6A																				
STATION 49	MONTH 7	DAY 28	HOUR 10.6	JULIAN DAY 209	LATITUDE 42.350N	LONGITUDE 80.050W														
0.	21.48	0.00	0.072	44.	24.7	51.	7.5	11.0	1.2	91.	2.6	311.	8.58				8.67	101.		
10.	21.38	0.00	0.000	41.	24.2	47.	7.2	10.7	1.2	91.	2.6	311.	8.56				8.83	102.		
15.	20.54	0.00	0.069	43.	24.4	48.	7.3	10.8	1.2	91.	2.0	313.	8.40				8.41	96.		
20.	11.28	0.00	0.130	44.	24.1	54.	7.0	10.7	1.2	97.	0.0	323.	7.85				6.07	57.		
20.7R																				
STATION 52	MONTH 7	DAY 28	HOUR 13.8	JULIAN DAY 209	LATITUDE 42.350N	LONGITUDE 81.370W														
0.	21.65	0.00	0.046	45.	23.2	50.	8.0	11.2	1.2	89.	3.3	308.	8.60				8.93	104.		
10.	21.50	0.00	0.003	47.	24.2	50.	7.6	11.2	1.1	89.	3.3	308.	8.60				9.02	105.		
15.	21.11	0.00	0.062	49.	24.1	50.	5.4	10.7	1.1	90.	2.6	308.	8.49				8.61	99.		
20.	11.84	0.00	0.499	41.	24.0	51.	8.6	11.0	1.2	95.	0.0	318.	7.70				4.35	42.		
21.9R																				
STATION 53	MONTH 7	DAY 28	HOUR 16.0	JULIAN DAY 209	LATITUDE 42.310N	LONGITUDE 81.010W														
0.	21.51	0.00	0.033	41.	24.0	47.	7.0	11.3	1.2	88.	3.3	308.	8.68				8.90	82.		
10.	10.39	0.00	0.003	41.	24.1	47.	7.2	11.1	1.2	88.	2.6	308.	8.60				8.67	82.		
15.	10.26	0.00	0.258	43.	24.1	49.	8.2	11.1	1.2	95.	0.0	318.	7.72				5.73	67.		
20.	10.16	0.00	0.280	47.	24.1	49.	7.6	11.1	1.2	95.	0.0	318.	7.69				5.65	52.		
20.7B																				
STATION 54	MONTH 7	DAY 28	HOUR 18.1	JULIAN DAY 209	LATITUDE 42.240N	LONGITUDE 81.810W														
0.	21.82	0.00	0.026	41.	24.1	47.	7.4	11.3	1.2	88.	3.3	310.	8.65				8.58	101.		
10.	21.61	0.00	0.062	47.	24.2	46.	12.4	11.3	1.3	87.	3.3	312.	8.61				8.54	97.		
17.	9.63	0.00	0.430	40.	24.1	48.	7.4	11.3	1.2	98.	0.0	326.	7.63				4.12	37.		
18.9R																				
STATION 55	MONTH 7	DAY 29	HOUR 9.4	JULIAN DAY 210	LATITUDE 42.120N	LONGITUDE 81.740W														
0.	21.89	0.00	0.033	47.	25.1	47.	5.5	11.5	1.2	88.	3.6	312.	8.51				8.13	95.		
10.	21.70	0.00	0.020	47.	25.1	46.	8.2	11.5	1.2	88.	3.2	314.	8.55				8.18	95.		
15.	21.58	0.00	0.000	43.	25.2	45.	7.3	11.6	1.2	93.	2.7	314.	8.50				8.14	95.		
20.	9.65	0.00	0.173	43.	24.1	48.	12.8	11.3	1.2	92.	0.0	320.	7.66				4.40	40.		
23.5B																				
STATION 56	MONTH 7	DAY 29	HOUR 11.1	JULIAN DAY 210	LATITUDE 41.990N	LONGITUDE 81.460W														
0.	21.84	0.00	0.020	42.	24.2	48.	8.1	11.0	1.2	90.	2.2	316.	8.49				8.19	96.		
10.	21.53	0.00	0.010	40.	24.2	51.	8.0	11.1	1.2	90.	2.7	316.	8.52				8.30	97.		
15.	20.56	0.00	0.039	43.	24.2	50.	7.6	11.0	1.3	91.	2.2	318.	8.38				7.97	91.		
20.	8.98	0.00	0.010	42.	24.2	50.	7.2	10.9	1.3	92.	0.0	322.	7.58				4.64	43.		
24.4A																				
STATION 57	MONTH 7	DAY 29	HOUR 13.5	JULIAN DAY 210	LATITUDE 42.040N	LONGITUDE 82.040W														
0.	22.10	0.00	0.020	42.	25.1	49.	13.8	10.9	1.2	88.	3.8	316.	8.61				8.56	100.		
10.	21.63	0.00	0.173	42.	25.1	48.	7.8	11.0	1.3	88.	2.7	316.	8.58				8.43	98.		
15.	21.51	0.00	0.020	45.	24.6	48.	7.6	10.8	1.3	88.	2.7	316.	8.55				8.34	97.		
20.	11.09	0.00	0.225	42.	24.1	50.	7.6	10.9	1.3	92.	0.0	322.	7.60				3.42	32.		
21.5B																				
STATION 59	MONTH 7	DAY 29	HOUR 16.1	JULIAN DAY 210	LATITUDE 41.880N	LONGITUDE 82.340W														
0.	22.32	0.00	0.062	49.	26.0	39.	7.8	11.1	1.1	88.	4.3	318.	8.64				8.79	75.		
10.	21.95	0.00	0.062	45.	28.0	48.	7.8	11.2	1.3	86.	4.3	318.	8.68				8.34	72.		
12.	15.98	0.00	0.349	42.	26.5	50.	7.6	11.5	1.3	94.	0.0	334.	7.62				1.54	15.		
12.7R																				
STATION 60	MONTH 7	DAY 29	HOUR 17.5	JULIAN DAY 210	LATITUDE 41.840N	LONGITUDE 82.550W														
0.	22.80	0.00	0.046	37.	21.2	43.	7.0	10.0	1.2	84.	3.2	287.	8.68				7.74	92.		
5.	22.57	0.00	0.248	37.	21.2	44.	7.6	9.8	1.2	84.	3.2	287.	8.61				7.45	82.		
10.	22.52	0.00	0.033	37.	21.2	43.	7.6	9.9	1.0	84.	2.7	287.	8.56				7.08	83.		
12.2B																				

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6502

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L	PO4 MG/L	SD4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CALCO3 MG/L	PALNK CALCO3 MG/L	SPEC. COMB. MICRO-MMS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MAT. MG/L	TOTAL COLI 100ML
STATION 61	MONTH 7	DAY 29	HOUR 18.7	JULIAN DAY 210	LATITUDE 41.950N	LONGITUDE 82.630W													
0.	23.12	0.00	.215	34.	19.2	40.	7.7	8.6	1.1	80.	4.3	266.	8.72	7.72	92.				
5.	23.03	0.00	.046	34.	19.2	40.	7.5	8.8	1.1	81.	4.3	266.	8.70	7.70	92.				
10.	22.74	0.00	.336	35.	19.4	41.	8.2	8.8	1.1	82.	3.2	268.	8.51	6.82	81.				
10.90																			
STATION 62	MONTH 7	DAY 30	HOUR 9.0	JULIAN DAY 211	LATITUDE 41.850N	LONGITUDE 82.800W													
0.	22.64	0.00	.362	34.	18.5	40.	7.8	8.8	1.1	81.	2.2	268.	8.55	7.20	85.				
5.	22.51	0.00	.336	35.	19.3	39.	7.9	8.7	1.1	81.	2.2	268.	8.55	6.86	81.				
0.	22.98	0.00	.202	33.	18.8	40.	7.2	8.8	1.1	81.	2.2	270.	8.56	6.84	82.				
10.70																			
STATION 63	MONTH 7	DAY 30	HOUR 10.3	JULIAN DAY 211	LATITUDE 41.970N	LONGITUDE 83.000W													
0.	22.30	0.00	.522	35.	19.4	38.	7.6	9.1	1.1	80.	2.2	266.	8.55	7.51	88.				
7.	22.10	0.00	.248	33.	19.3	38.	7.8	10.0	1.2	78.	2.7	268.	8.61	7.28	85.				
8.50																			
STATION 64	MONTH 7	DAY 30	HOUR 11.4	JULIAN DAY 211	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	21.21	0.00	.150	36.	10.8	37.	7.0	5.6	1.0	81.	0.0	239.	8.13	7.80	81.				
5.	21.65	0.00	.078	31.	11.1	38.	7.3	5.6	.9	81.	0.0	240.	8.12	6.89	86.				
7.30																			

CRUISE 6503

STATION 1	MONTH 8	DAY 9	HOUR 13.0	JULIAN DAY 221	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	22.28	0.22	.166	38.	52.2	46.	7.0	20.2	1.3	86.	0.0	372.	8.09	6.43	76.				
5.	22.55	0.00	.095	16.	47.3	41.	7.3	18.4	1.2	84.	0.0	349.	8.05	6.60	78.				
8.50																			
STATION 2	MONTH 8	DAY 9	HOUR 14.7	JULIAN DAY 221	LATITUDE 41.900N	LONGITUDE 83.000W													
0.	22.31	0.00	.127	33.	20.9	41.	8.6	11.0	1.2	82.	0.0	259.	8.19	7.44	88.				
8.	22.27	0.30	.232	32.	20.7	41.	8.5	6.9	1.0	83.	0.0	258.	8.19	7.36	87.				
9.00																			
STATION 3	MONTH 8	DAY 9	HOUR 15.9	JULIAN DAY 221	LATITUDE 41.800N	LONGITUDE 83.130W													
0.	21.84	0.00	.052	18.	21.6	40.	8.6	8.5	1.2	78.	4.3	257.	8.41	9.06	102.				
7.	21.74	0.00	0.000	31.	21.7	43.	8.5	8.9	1.2	79.	4.3	258.	8.79	9.05	105.				
9.10																			
STATION 5	MONTH 8	DAY 9	HOUR 17.9	JULIAN DAY 221	LATITUDE 41.640N	LONGITUDE 82.950W													
0.	22.17	0.00	.023	47.	22.7	49.	8.8	8.7	1.4	89.	2.7	296.	8.55	8.23	97.				
7.	22.28	0.00	.016	46.	22.7	49.	9.0	9.5	1.4	89.	2.2	294.	8.01	8.33	98.				
7.90																			
STATION 6	MONTH 8	DAY 11	HOUR 4.9	JULIAN DAY 223	LATITUDE 41.680N	LONGITUDE 82.500W													
0.	21.89	0.00	0.000	43.	21.2	49.	8.4	9.0	1.4	85.	2.7	292.	8.68	-1.61	8.87	104.			
5.	21.77	0.00	0.000	37.	21.2	49.	7.6	9.4	1.4	90.	2.2	292.	8.48	-1.61	7.94	93.			
10.	21.86	0.00	0.000	37.	21.2	48.	8.8	8.8	1.4	90.	2.2	292.	8.49	-1.61	7.68	90.			
12.20																			
STATION 7	MONTH 8	DAY 11	HOUR 10.2	JULIAN DAY 223	LATITUDE 41.530N	LONGITUDE 82.590W													
0.	21.81	0.00	.023	30.	23.7	52.	7.7	9.6	1.4	96.	3.2	292.	8.70	-1.41	8.26	96.			
5.	21.62	0.00	0.000	38.	23.0	49.	8.3	9.3	1.4	88.	2.7	292.	8.41	-1.39	7.70	90.			
10.	21.72	0.00	0.000	40.	22.7	48.	8.5	9.7	1.4	89.	2.7	294.	8.49	-1.41	7.64	89.			
13.10																			
STATION 8	MONTH 8	DAY 11	HOUR 11.6	JULIAN DAY 223	LATITUDE 41.520N	LONGITUDE 82.410W													
0.	21.21	0.00	.095	38.	24.4	48.	8.7	10.6	1.4	88.	3.8	298.	8.60	-1.15	8.58	95.			
10.	20.96	0.30	.023	39.	25.6	48.	8.3	11.1	1.4	90.	1.6	300.	8.39	-1.24	7.59	87.			
14.00																			
STATION 9	MONTH 8	DAY 11	HOUR 12.8	JULIAN DAY 223	LATITUDE 41.540N	LONGITUDE 82.210W													
0.	21.78	0.00	.052	43.	25.6	49.	8.7	9.9	1.4	87.	4.3	302.	8.71	-1.15	8.78	103.			
10.	20.52	0.00	.033	39.	25.7	49.	8.9	10.5	1.4	87.	3.2	302.	8.01	-1.39	8.25	94.			
14.	15.84	0.00	.395	48.	26.9	51.	8.3	10.5	1.4	94.	0.0	318.	7.58	-1.65	1.06	11.			
15.50																			
STATION 10	MONTH 8	DAY 11	HOUR 14.0	JULIAN DAY 223	LATITUDE 41.570N	LONGITUDE 82.050W													
0.	21.37	0.00	.023	37.	25.1	48.	8.1	10.5	1.4	86.	5.4	297.	8.79	-1.25	8.49	111.			
10.	21.07	0.00	0.000	43.	25.1	51.	8.8	10.4	1.2	88.	3.2	298.	8.48	-1.23	8.43	97.			
15.	21.17	0.00	0.000	46.	24.9	50.	8.4	11.4	1.2	88.	3.2	298.	8.63	-1.22	8.21	95.			
18.10																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6563

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	P04 MG/L P	SD4 MS/L	CL MG/L	SI02 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	CO PCP SAT.	TOT. TOTAL SUSP MGP MG/L	COLI 100ML
STATION 11 MONTH 8 DAY 11 HOUR 15.5 JULIAN DAY 223 LATITUDE 41.610N LONGITUDE 81.826W																			
0.	22.04	0.30	0.33	47.	28.0		51.	8.8	11.4	1.2	87.	4.3	311.	8.65	100	8.63	101.		
10.	20.74	0.00	0.42	48.	27.0		51.	8.9	11.4	1.2	89.	3.2	312.	8.51	100	8.19	94.		
17.	13.11	0.00	0.24	48.	27.0		51.	8.6	11.3	1.2	95.	0.0	317.	7.65	110	7.97	10.		
18.00 7.35 -1.166																			
STATION 12 MONTH 8 DAY 11 HOUR 16.4 JULIAN DAY 223 LATITUDE 41.540N LONGITUDE 81.790W																			
0.	21.86	0.00	0.42	49.	26.0		49.	8.7	11.1	1.2	85.	5.4	302.	8.81	081	9.59	112.		
10.	21.27	0.00	0.52	47.	24.1		49.	8.7	11.0	1.2	87.	3.2	297.	8.58	088	7.86	91.		
15.	21.28	0.00	0.72	44.	24.1		49.	8.4	12.2	1.2	80.	3.2	297.	8.52	101	7.68	89.		
15.00 7.43 -1.116																			
STATION 13 MONTH 8 DAY 12 HOUR 8.6 JULIAN DAY 224 LATITUDE 41.640N LONGITUDE 81.620W																			
0.	20.97	0.00	0.33	46.	27.1		52.	8.1	11.0	1.2	90.	2.7	317.	8.52	100	8.28	95.		
15.	20.97	0.00	0.52	48.	27.1		53.	8.5	11.4	1.2	89.	3.2	314.	8.60	120	8.27	95.		
15.	20.88	0.30	0.95	45.	26.1		53.	8.2	11.5	1.2	90.	3.2	315.	8.58	115	8.23	95.		
16.10 7.25 -1.160																			
STATION 14 MONTH 8 DAY 12 HOUR 13.3 JULIAN DAY 224 LATITUDE 41.700N LONGITUDE 81.450W																			
0.	22.08	0.00	0.52	50.	27.1		50.	8.4	11.7	1.5	88.	3.2	319.	8.62	139	8.53	100.		
10.	21.46	0.00	0.16	49.	27.3		51.	7.8	12.0	1.5	88.	3.2	320.	8.60	133	8.30	97.		
11.00 7.25 -1.166																			
STATION 15 MONTH 8 DAY 13 HOUR 11.9 JULIAN DAY 224 LATITUDE 41.780N LONGITUDE 81.520W																			
0.	21.30	0.05	0.62	49.	27.9		53.	7.9	11.6	1.5	90.	2.7	322.	8.49	123	8.66	98.		
10.	21.06	0.02	0.82	49.	26.9		53.	8.5	11.6	1.3	90.	2.7	322.	8.49	122	9.02	104.		
15.	21.53	0.00	0.33	47.	28.1		53.	8.3	12.0	1.2	92.	2.7	320.	8.57	122	8.57	99.		
19.	12.67	0.00	0.24	49.	27.1		54.	8.3	11.2	1.4	87.	2.2	325.	8.41	159	2.04	20.		
20.70 7.00 -1.040																			
STATION 16 MONTH 8 DAY 12 HOUR 10.8 JULIAN DAY 224 LATITUDE 41.870N LONGITUDE 81.500W																			
0.	22.96	0.00	0.33	45.	24.6		52.	8.4	10.9	1.2	92.	2.2	311.	8.40	076	8.23	54.		
10.	20.80	0.00	0.42	45.	24.4		53.	8.1	10.5	1.2	92.	2.2	310.	8.43	084	8.22	94.		
15.	20.77	0.05	0.33	47.	25.1		51.	8.4	10.5	1.2	91.	2.2	310.	8.49	092	8.18	94.		
20.	11.24	0.08	0.32	44.			54.	8.6	11.7	1.2	95.	0.0	315.	7.66	117	3.10	20.		
23.20 7.00 -1.040																			
STATION 17 MONTH 8 DAY 12 HOUR 14.7 JULIAN DAY 224 LATITUDE 41.780N LONGITUDE 81.280W																			
0.	22.13	0.20	0.72	52.	29.4		52.	8.4	14.1	1.4	87.	4.3	324.	8.70	160	9.16	100.		
10.	21.83	0.05	0.82	58.	37.5		56.	8.8	17.2	1.4	80.	3.2	349.	8.62	158	8.69	101.		
11.00 7.17 -1.150																			
STATION 18 MONTH 8 DAY 12 HOUR 16.4 JULIAN DAY 224 LATITUDE 41.870N LONGITUDE 81.180W																			
0.	21.92	0.00	0.82	52.	30.3		54.	9.0	14.0	1.4	91.	2.7	337.	8.55	111	8.76	102.		
10.	21.62	0.00	0.62	52.	33.5		56.	8.6	14.8	1.4	91.	2.7	344.	8.54	109	8.40	98.		
16.	21.59	0.00	0.82	53.	34.0		57.	9.1	15.3	1.4	91.	2.7	345.	8.51	109	8.11	94.		
17.70 7.18 -1.125																			
STATION 19 MONTH 8 DAY 13 HOUR 8.0 JULIAN DAY 225 LATITUDE 41.950N LONGITUDE 80.830W																			
0.	21.22	0.00	0.95	47.	27.8		52.	8.8	14.5	1.4	93.	3.2	328.	8.60	149	8.36	95.		
10.	21.22	0.00	0.72	49.	27.8		52.	9.0	12.4	1.3	93.	3.2	330.	8.66	131	8.38	97.		
16.	21.35	0.00	0.82	48.	27.5		54.	7.9	12.6	1.3	92.	3.2	329.	8.63	122	8.32	96.		
18.00 7.39 -1.020																			
STATION 21 MONTH 8 DAY 13 HOUR 10.0 JULIAN DAY 225 LATITUDE 41.980N LONGITUDE 80.680W																			
0.	21.56	0.00	0.72	55.	30.4		55.	8.0	13.2	1.2	91.	3.8	339.	8.50	111	8.41	98.		
10.	21.54	0.00	0.62	49.	31.1		55.	7.8	13.5	1.2	92.	3.8	337.	8.60	105	6.44	98.		
15.	21.68	0.00	0.72	46.	31.2		55.	8.6	13.3	1.2	91.	4.3	350.	8.58	110	6.57	100.		
15.00 7.20 -1.042																			
STATION 22 MONTH 8 DAY 13 HOUR 12.3 JULIAN DAY 225 LATITUDE 42.050N LONGITUDE 80.480W																			
0.	21.51	0.00	0.62	53.	27.5		53.	8.7	12.4	1.2	91.	4.3	323.	8.60	091	8.41	98.		
10.	21.62	0.00	0.95	51.	28.0		53.	8.0	12.0	1.2	91.	4.3	323.	8.65	091	8.43	98.		
13.20 7.20 -1.042																			
STATION 24 MONTH 8 DAY 14 HOUR 10.3 JULIAN DAY 226 LATITUDE 42.130N LONGITUDE 80.620W																			
0.	22.10	0.00	0.95	49.	26.6		51.	8.9	12.4	1.2	93.	2.7	316.	8.51	171	5.54	100.		
10.	22.33	0.05	1.17	48.	27.0		51.	8.2	12.6	1.2	89.	2.2	316.	8.52	151	8.61	101.		
13.00 6.08 -1.123																			
STATION 25 MONTH 8 DAY 14 HOUR 11.8 JULIAN DAY 226 LATITUDE 42.270N LONGITUDE 79.830W																			
0.	22.10	0.00	1.00	47.	26.4		41.	8.1	12.1	1.2	93.	3.8	312.	8.70	102	3.64	101.		
5.	21.88	0.00	0.80	47.	27.1		51.	8.4	13.3	1.2	92.	3.2	312.	8.58	100	8.73	102.		
13.	21.10	0.10	0.13	49.	26.9		51.	8.7	11.4	1.2	93.	2.7	311.	8.51	101	8.65	100.		
14.00 6.58 -1.103																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6503

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L K	PO4 MG/L P	SD4 MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CAC03 MG/L	PALM CAC03 MG/L	SPEC. COND. MICRO- MHOS	PH	CH VCLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MAYP MG/L	TOTAL COLI JG00ML MG/L
STATION 26 MONTH 8 DAY 14 HOUR 13.5 JULIAN DAY 226 LATITUDE 42.350N LONGITUDE 79.630W																			
0.	20.97	0.00	0.000	47.	25.4		51.	8.8	11.1	1.2	93.	3.2	307.	8.59	-120	8.69	102.		
10.	20.69	.05	0.000	45.	25.9		53.	8.3	11.9	1.2	93.	2.7	307.	8.52	-120	9.02	103.		
16.	20.64	.07	0.000	45.	25.9		53.	8.2	12.5	1.2	93.	2.7	307.	8.52	-118	9.03	103.		
17.7B														7.70	-150				
STATION 27 MONTH 8 DAY 14 HOUR 14.7 JULIAN DAY 226 LATITUDE 42.460N LONGITUDE 79.620W																			
0.	21.07	.02	0.000	47.	25.0		53.	8.5	12.8	1.2	92.	3.2	308.	8.50	-166	8.64	102.		
10.	20.75	.10	0.000	47.	25.0		52.	8.4	12.8	1.2	94.	2.2	308.	8.47	-180	9.92	102.		
15.	20.48	.01	0.000	44.	25.0		53.	8.6	12.8	1.3	92.	2.7	306.	8.47	-180	9.01	103.		
17.	20.64	.03	0.000	47.	25.9		53.	8.4	15.2	1.3	94.	2.2	306.	8.41	-180	9.04	102.		
21.0B														7.70	-150				
STATION 29 MONTH 8 DAY 15 HOUR 8.0 JULIAN DAY 227 LATITUDE 42.520N LONGITUDE 79.330W																			
0.	21.35	.05	0.000	47.	25.8		52.	8.9	13.1	1.5	92.	3.8	307.	8.51	-162	8.54	95.		
10.	21.33	0.00	0.000	46.	25.4		52.	8.7	13.1	1.3	93.	3.2	304.	8.61	-160	8.60	100.		
17.	21.31	0.00	0.000	46.	26.0		53.	8.2	13.1	1.3	92.	3.2	306.	8.61	-156	8.65	100.		
19.8A														7.57	-105				
STATION 30 MONTH 8 DAY 15 HOUR 9.4 JULIAN DAY 227 LATITUDE 42.600N LONGITUDE 79.180W																			
0.	21.60	0.00	0.000	46.	25.8		52.	8.0	12.7	1.3	92.	3.8	306.	8.64	-191	8.71	103.		
10.	21.37	0.00	0.000	45.	24.9		53.	8.9	12.9	1.3	92.	3.2	306.	8.62	-171	8.76	102.		
16.	21.39	0.00	0.062	47.	25.8		54.	6.5	14.1	1.3	94.	3.2	306.	8.61	-170	8.83	102.		
17.4B														7.45	-081				
STATION 31 MONTH 8 DAY 15 HOUR 11.1 JULIAN DAY 227 LATITUDE 42.730N LONGITUDE 79.150W																			
0.	21.68	0.00	0.062	47.	25.8		54.	6.5	12.9	1.3	92.	4.3	308.	8.60	-130	8.49	99.		
10.	21.58	0.00	0.082	44.	25.6		53.	7.8	12.9	1.3	92.	4.3	308.	8.60	-130	8.80	102.		
13.	21.58	0.00	0.095	47.	25.8		54.	7.4	12.9	1.3	94.	3.8	308.	8.65	-119	8.59	100.		
14.6B														7.57	-070				
STATION 32 MONTH 8 DAY 15 HOUR 12.4 JULIAN DAY 227 LATITUDE 42.840N LONGITUDE 78.920W																			
0.	22.04	0.00	0.062	45.	25.2		54.	7.3	12.9	1.3	91.	5.4	305.	8.75	-121	8.39	92.		
10.	21.94	0.00	0.062	43.	25.9		54.	7.8	12.9	1.3	91.	5.4	305.	8.80	-128	8.56	100.		
12.2A														8.71	-125				
STATION 33 MONTH 8 DAY 15 HOUR 13.7 JULIAN DAY 227 LATITUDE 42.820N LONGITUDE 79.070W																			
0.	22.00	0.00	0.082	46.	24.8		53.	7.8	13.2	1.3	92.	4.3	305.	8.70	-081	8.58	101.		
10.	21.42	0.00	0.104	47.	25.8		53.	7.8	13.2	1.3	92.	4.3	305.	8.60	-091	8.73	101.		
16.	21.10	0.00	0.072	43.	25.3		53.	7.8	13.2	1.3	93.	7.2	300.	8.52	-100	8.55	95.		
17.7B														8.20	-170				
STATION 34 MONTH 8 DAY 15 HOUR 15.0 JULIAN DAY 227 LATITUDE 42.720N LONGITUDE 79.220W																			
0.	21.61	0.00	0.072	49.	25.8		52.	9.0	10.7	1.0	93.	4.3	306.	8.65	-102	8.64	101.		
10.	20.94	0.00	0.104	53.	26.3		51.	8.6	11.2	1.0	92.	4.3	306.	8.65	-118	8.72	100.		
15.	20.85	0.00	0.127	50.	25.4		51.	9.0	11.1	1.0	92.	4.3	306.	8.60	-118	8.73	100.		
20.	20.93	0.00	0.072	55.	25.8		51.	8.6	11.2	1.0	92.	4.3	306.	8.65	-121	8.42	95.		
21.0B														7.67	-150				
STATION 35 MONTH 8 DAY 15 HOUR 16.3 JULIAN DAY 227 LATITUDE 42.820N LONGITUDE 79.280W																			
0.	21.14	0.00	0.095	54.	26.2		53.	8.9	11.1	1.0	93.	3.2	309.	8.62	-121	8.69	100.		
10.	20.11	0.00	0.293	52.	25.8		52.	8.9	11.2	1.0	94.	3.2	309.	8.65	-130	8.83	100.		
17.	20.37	0.00	0.264	52.	25.8		51.	9.4	11.2	1.3	94.	2.7	312.	8.48	-180	8.77	102.		
18.3B														7.61	-060				
STATION 36 MONTH 8 DAY 15 HOUR 9.5 JULIAN DAY 228 LATITUDE 42.800N LONGITUDE 79.560W																			
0.	21.57	0.00	0.277	51.	26.1		50.	9.1	11.0	.9	93.	3.2	308.	8.59	-123	8.42	102.		
10.	21.00	0.00	0.306	50.	26.1		50.	9.6	11.0	.9	93.	3.2	309.	8.61	-119	9.27	107.		
14.	20.37	0.00	0.277	46.	25.5		51.	4.7	11.0	.9	94.	2.7	309.	8.50	-119	9.00	103.		
20.10														7.91	-096				
STATION 37 MONTH 8 DAY 16 HOUR 10.4 JULIAN DAY 228 LATITUDE 42.800N LONGITUDE 79.680W																			
0.	21.60	0.00	0.290	53.	26.1		51.	9.1	11.0	.9	92.	4.3	307.	8.60	-099	8.68	101.		
10.	21.53	0.00	0.284	49.	26.1		49.	9.0	11.0	.9	91.	4.3	308.	8.61	-102	8.72	101.		
20.	14.18	0.00	0.290	51.	25.3		49.	9.1	11.0	.9	96.	0.6	311.	8.10	-120	9.09	92.		
30.	5.72	0.00	0.290	52.	25.2		49.	8.9	10.9	.9	96.	0.0	311.	7.92	-135	8.49	80.		
32.3B														7.43	-107				
STATION 39 MONTH 8 DAY 16 HOUR 13.0 JULIAN DAY 228 LATITUDE 42.620N LONGITUDE 80.000W																			
0.	21.56	0.00	0.277	53.	26.0		50.	8.4	10.9	.9	93.	3.2	310.	8.72	-107	9.17	105.		
10.	19.86	0.00	0.290	52.	27.1		49.	9.2	11.1	.9	93.	2.7	311.	8.50	-109	8.00	102.		
20.	8.72	0.00	0.306	51.	26.1		48.	10.7	11.1	.9	95.	0.0	314.	8.00	-102	9.42	84.		
30.	5.74	0.00	0.320	51.	25.2		50.	9.0	11.1	.9	96.	0.0	312.	7.91	-155	9.42	78.		
39.	4.92	0.00	0.290	52.	26.1		50.	9.2	11.1	.9	97.	0.0	312.	7.71	-151	9.48	78.		
41.8B														7.68	-155				

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6503

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	TOTAL CALC3	P-ALK CALC3	SPEC. COND. MICRO- MHOS	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUCP MAYR 100ML MG/L	TOTAL COLI 100ML
STATION 40 MONTH 8 DAY 16 HOUR 14.3 JULIAN DAY 228 LATITUDE 42.520N LONGITUDE 79.940W																			
0.	21.18	0.00	.143	46.	25.6	53.	7.6	10.8	1.5	92.	3.2	306.	8.59	.093	8.71	100.			
10.		0.00	.140	45.	26.1	53.	7.4	10.8	1.2	96.	0.0	306.	8.70	.118	9.06	93.			
20.	15.18	0.00	.140	46.	25.6	53.	8.0	10.8	1.4	96.	0.0	306.	7.96	.135	9.54	81.			
30.	5.44	0.00	.192	46.	26.1	54.	7.7	10.8	1.2	98.	0.3	309.	8.00	.148	9.27	76.			
40.	4.60	0.00	.205	47.	26.1	54.	7.2	10.6	1.3	98.	0.0	310.	8.00	.140	9.35	75.			
55.	4.53	0.00	.192	49.	26.2	54.	7.7	10.6	1.3	99.	0.6	312.	8.67	.141	9.52	76.			
52.0R																			
STATION 41 MONTH 8 DAY 16 HOUR 15.8 JULIAN DAY 228 LATITUDE 42.430N LONGITUDE 79.960W																			
0.	22.17	0.00	.143	46.	26.1	53.	7.2	10.6	1.3	92.	3.2	310.	8.51	.088	8.75	96.			
10.	17.96	0.00	.166	47.	26.1	52.	7.5	10.6	1.3	92.	2.7	312.	8.47	.100	8.62	103.			
20.	9.12	0.00	.232	43.	26.1	52.	8.2	10.4	1.3	96.	0.0	309.	8.30	.130	8.64	77.			
30.	5.30	0.00	.153	43.	26.1	53.	7.3	10.6	1.4	96.	0.0	311.	8.00	.115	9.28	76.			
40.	4.65	0.00	.192	42.	25.8	55.	7.6	10.3	1.4	98.	0.0	317.	8.30	.110	9.46	76.			
45.4R																			
STATION 42 MONTH 8 DAY 16 HOUR 16.9 JULIAN DAY 228 LATITUDE 42.370N LONGITUDE 79.920W																			
0.	22.32	0.00	.153	46.	26.6	53.	7.6	10.3	1.4	92.	2.2	310.	8.41	.113	8.32	98.			
10.	21.09	0.00	.166	45.	27.1	54.	7.3	10.3	1.4	91.	2.7	310.	8.49	.110	8.58	99.			
20.	9.90	0.00	.166	45.	27.1	54.	7.8	11.3	1.4	96.	0.0	314.	7.90	.120	9.22	84.			
30.	5.32	0.00	.166	46.	27.1	55.	7.4	9.8	1.4	96.	0.0	315.	7.90	.125	9.39	76.			
38.7R																			
STATION 43 MONTH 8 DAY 17 HOUR 10.0 JULIAN DAY 229 LATITUDE 42.160N LONGITUDE 80.930W																			
0.	22.41	0.00	.046	45.	26.9	54.	7.8	10.4	1.4	92.	2.7	313.	8.49	.139	8.40	103.			
10.	21.69	0.00	.036	46.	26.9	54.	7.9	10.7	1.4	93.	2.2	312.	8.39	.123	8.62	103.			
15.	21.23	0.00	.046	55.	26.1	54.	7.7	10.3	1.4	94.	1.6	312.	8.32	.124	8.81	102.			
21.	6.32	.14	.134	51.	25.0	54.	7.9	9.8	1.4	94.	0.0	311.	7.81	.133	9.95	83.			
22.2R																			
STATION 44 MONTH 8 DAY 17 HOUR 11.0 JULIAN DAY 229 LATITUDE 42.250N LONGITUDE 80.330W																			
0.	22.70	0.00	.010	51.	25.9	54.	8.1	9.0	1.4	92.	2.2	307.	8.41	.112	8.70	103.			
10.	21.21	0.00	.212	52.	25.2	46.	9.6	10.2	1.2	92.	2.2	305.	8.42	.106	8.81	102.			
18.	11.04	0.00	.046	53.	25.9	46.	9.9	10.9	1.2	97.	0.0	312.	7.58	.121	9.50	89.			
16.4R																			
STATION 45 MONTH 8 DAY 17 HOUR 12.1 JULIAN DAY 229 LATITUDE 42.330N LONGITUDE 80.404W																			
0.	23.55	0.00	.070	47.	26.4	45.	10.0	11.6	1.2	92.	2.7	309.	8.50	.130	8.41	101.			
10.	21.58	0.00	.020	52.	26.9	46.	10.1	11.5	1.2	92.	2.7	309.	8.45	.132	8.69	101.			
15.	17.91	0.00	.046	49.	25.9	48.	10.3	11.3	1.4	96.	0.0	310.	8.71	.139	8.76	97.			
16.6R																			
STATION 46 MONTH 8 DAY 17 HOUR 13.4 JULIAN DAY 229 LATITUDE 42.470N LONGITUDE 80.460W																			
0.	23.07	0.00	.029	51.	25.9	47.	10.1	11.0	1.1	92.	2.7	307.	8.51	.130	8.39	100.			
10.	21.55	0.00	.036	49.	26.3	48.	10.1	11.6	1.1	92.	2.7	308.	8.52	.132	8.73	102.			
15.	18.23	0.00	.046	49.	26.3	48.	10.0	12.1	1.1	94.	2.2	306.	8.39	.141	8.70	95.			
15.3R																			
STATION 47 MONTH 8 DAY 17 HOUR 15.2 JULIAN DAY 229 LATITUDE 42.520N LONGITUDE 80.680W																			
0.	22.84	0.00	.088	50.	25.2	47.	8.7	11.3	1.1	90.	4.3	301.	8.60	.105	8.50	101.			
10.	21.22	0.00	.016	51.	25.5	47.	9.8	10.0	1.1	92.	2.7	304.	8.50	.100	8.74	101.			
15.	15.68	0.00	.052	51.	25.2	49.	8.0	10.4	1.1	98.	0.0	312.	8.10	.121	8.77	91.			
17.7R																			
STATION 48 MONTH 8 DAY 18 HOUR 10.6 JULIAN DAY 230 LATITUDE 42.520N LONGITUDE 80.930W																			
0.	22.59	0.00	.015	48.	25.4	46.	7.8	10.4	1.1	89.	3.2	300.	8.59	.141	8.53	101.			
10.	20.74	0.00	.016	51.	25.9	48.	8.2	10.2	1.1	91.	2.7	304.	8.46	.132	8.69	100.			
17.	12.82	.07	.166	48.	25.2	52.	7.9	10.1	1.1	100.	5.0	316.	7.17	.151	8.68	87.			
18.5R																			
STATION 49 MONTH 8 DAY 18 HOUR 12.3 JULIAN DAY 230 LATITUDE 42.350N LONGITUDE 80.850W																			
0.	22.73	0.00	.062	47.	25.4	48.	7.8	10.4	1.1	89.	3.2	301.	8.60	.103	8.34	90.			
10.	21.30	0.00	.033	48.	25.4	48.	8.0	10.3	1.1	91.	2.7	300.	8.52	.109	8.60	100.			
15.	16.75	0.00	.117	51.	25.4	51.	7.8	10.3	1.1	99.	0.0	316.	7.40	.148	8.95	83.			
21.0R																			
STATION 50 MONTH 8 DAY 18 HOUR 14.4 JULIAN DAY 230 LATITUDE 42.310N LONGITUDE 81.070W																			
0.	22.83	0.00	.062	49.	25.4	48.	6.9	10.3	1.1	90.	3.2	304.	8.50	.127	8.13	97.			
10.	21.48	0.00	.033	49.	26.7	47.	6.5	10.2	1.2	90.	3.2	304.	8.52	.128	8.30	96.			
15.	23.48	0.00	.033	47.	26.2	47.	8.5	10.1	1.2	92.	1.6	305.	8.31	.133	8.31	54.			
20.	11.25	0.00	.179	48.	25.4	53.	7.9	10.2	1.0	98.	0.0	316.	7.74	.158	8.14	77.			
21.5R																			

LIMNOLOGICAL DATA
LAKE CALE

CRUISE 6503

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SDA MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTALK MG/L CACO3	P-TOTALK MG/L CACO3	SPEC. COND. MICRO-MHOS	PH	CH VOL/S	DO MG/L	DO PCT. SAT.	TOT. SUSP. MATR MG/L	TOT. COLI 100ML
STATION 52 MONTH 8 DAY 16 HOUR 16.2 JULIAN DAY 233 LATITUDE 42.356N LONGITUDE 81.375W																			
0.	22.81	0.00	.042	49.	26.6	50.	7.8	10.9	1.2	89.	4.3	302.	8.62	.114	8.17	97.			
10.	21.92	0.00	.052	50.	26.5	49.	7.9	11.0	1.1	89.	4.3	303.	8.62	.125	8.41	98.			
15.	20.88	0.00	.052	50.	26.0	49.	8.1	11.1	1.1	92.	2.2	304.	8.43	.129	8.47	97.			
20.	11.63	0.00	.258	47.	25.1	53.	8.0	11.0	1.1	100.	0.0	317.	7.71	.139	8.53	76.			
21.78													7.39	.075					
STATION 53 MONTH 8 DAY 18 HOUR 17.9 JULIAN DAY 230 LATITUDE 42.349N LONGITUDE 81.610W																			
0.	22.57	0.00	.352	44.	25.9	49.	8.0	11.0	1.0	89.	4.3	304.	8.65	.131	8.29	98.			
10.	21.59	0.00	.042	46.	26.7	48.	8.4	11.0	1.2	90.	3.2	304.	8.52	.130	8.28	96.			
15.	17.45	0.00	.232	46.	25.8	49.	7.5	10.1	1.1	96.	0.0	312.	7.70	.154	8.04	86.			
19.	13.16	0.00	.424	49.	25.8	49.	8.5	10.2	1.1	97.	0.0	314.	7.60	.140	7.52	74.			
20.78													7.51	-.070					
STATION 54 MONTH 8 DAY 17 HOUR 14.5 JULIAN DAY 231 LATITUDE 42.246N LONGITUDE 81.478W																			
0.	21.80	0.00	.042	47.	25.4	49.	8.0	10.8	1.1	90.	2.7	294.	8.51	.115	8.69	102.			
10.	21.80	0.00	.042	46.	25.7	49.	7.8	10.8	1.3	89.	3.2	293.	8.55	.104	8.78	103.			
17.	13.20	0.00	.505	43.	26.0	49.	8.3	10.2	1.1	90.	0.0	306.	7.61	.129	8.36	82.			
18.98													7.42	-.024					
STATION 55 MONTH 8 DAY 19 HOUR 10.0 JULIAN DAY 231 LATITUDE 42.120N LONGITUDE 81.740W																			
0.	21.78	0.00	.062	51.	25.3	47.	7.5	10.2	1.1	88.	3.2	294.	8.55	.280	8.73	102.			
10.	21.81	0.00	.062	47.	24.3	48.	7.6	9.7	1.1	84.	3.2	293.	8.57	.084	8.66	101.			
15.	13.12	0.00	.232	45.	26.2	50.	8.2	10.3	1.1	95.	0.0	307.	7.72	.110	8.50	84.			
20.	13.21	0.00	.313	46.	26.2	49.	8.3	10.5	1.1	95.	0.0	308.	7.59	.120	8.30	73.			
23.98													7.12	-.010					
STATION 56 MONTH 8 DAY 19 HOUR 11.5 JULIAN DAY 231 LATITUDE 41.999N LONGITUDE 81.660W																			
0.	22.64	0.00	.104	47.	26.5	48.	7.2	11.1	1.4	88.	3.8	294.	8.67	.070	8.37	99.			
13.	22.39	0.00	.072	45.	26.2	47.	7.8	11.2	1.0	88.	4.3	293.	8.65	.072	8.40	99.			
15.	21.10	0.00	.062	46.	26.3	47.	7.9	11.3	1.0	90.	2.7	294.	8.48	.072	8.42	97.			
21.	10.65	0.00	.328	53.	26.2	52.	7.9	10.3	1.2	96.	0.0	302.	7.66	.111	7.99	74.			
24.68													7.00	-.056					
STATION 57 MONTH 8 DAY 19 HOUR 14.1 JULIAN DAY 231 LATITUDE 42.040N LONGITUDE 82.040W																			
0.	22.32	0.00	.072	47.	27.2	52.	7.5	10.7	1.2	89.	3.2	306.	8.60	.080	8.33	98.			
10.	22.04	0.00	.072	46.	26.2	54.	7.7	11.6	1.2	89.	3.2	304.	8.61	.099	8.60	101.			
15.	21.63	0.00	.082	49.	26.7	51.	7.7	11.0	1.2	90.	3.2	306.	8.51	.091	8.41	97.			
20.	10.13	0.00	.326	47.	26.2	51.	8.2	10.8	1.2	95.	0.0	311.	7.57	.117	8.20	75.			
21.68													7.10	-.020					
STATION 58 MONTH 8 DAY 19 HOUR 16.9 JULIAN DAY 231 LATITUDE 41.880N LONGITUDE 82.380W																			
0.	22.91	0.00	.072	44.	20.5	47.	7.5	8.9	1.1	88.	3.2	266.	8.62	.130	8.13	97.			
10.	15.19	0.00	.393	43.	24.3	47.	7.5	10.2	1.2	90.	0.0	292.	7.82	.112	7.81	80.			
12.	13.13	0.00	.802	46.	27.2	51.	8.0	11.5	1.3	95.	0.0	312.	7.51	.130	7.63	75.			
13.56													7.42	-.060					
STATION 60 MONTH 8 DAY 19 HOUR 18.3 JULIAN DAY 231 LATITUDE 41.846N LONGITUDE 82.550W																			
0.	22.03	0.00	.127	48.	22.4	39.	7.7	8.8	1.0	84.	3.2	266.	8.54	.117	8.01	94.			
10.	19.17	0.00	.179	41.	23.3	42.	7.8	9.4	1.1	89.	0.0	280.	7.92	.110	7.92	80.			
17.28													7.42	-.060					
STATION 61 MONTH 8 DAY 20 HOUR 9.3 JULIAN DAY 232 LATITUDE 41.950N LONGITUDE 82.630W																			
0.	22.87	0.00	.153	38.	20.6	38.	7.4	8.7	1.0	84.	1.6	252.	8.40	.140	8.59	102.			
7.	22.76	0.00	.127	40.	21.2	39.	7.6	8.7	1.0	81.	1.1	252.	8.48	.140	8.57	102.			
10.88													7.00	-.075					
STATION 62 MONTH 8 DAY 20 HOUR 11.0 JULIAN DAY 232 LATITUDE 41.850N LONGITUDE 82.800W																			
0.	23.15	0.00	.212	41.	21.5	38.	6.7	8.2	1.0	81.	2.2	256.	8.52	.170	8.30	99.			
5.	22.53	0.00	.152	36.	21.6	39.	6.7	8.6	.9	87.	1.6	255.	8.42	.070	8.28	91.			
10.78													7.00	-.145					
STATION 63 MONTH 8 DAY 20 HOUR 12.3 JULIAN DAY 232 LATITUDE 41.970N LONGITUDE 83.000W																			
0.	23.00	0.00	.170	36.	20.4	40.	6.8	13.4	.5	76.	2.7	276.	8.50	.078	8.38	100.			
7.	22.57	0.00	.166	39.	20.2	38.	5.4	13.8	.5	81.	1.6	278.	8.39	.078	8.46	100.			
8.58													7.00	-.040					
STATION 64 MONTH 8 DAY 20 HOUR 13.3 JULIAN DAY 232 LATITUDE 42.000N LONGITUDE 83.140W																			
0.	23.15	0.00	.140	41.	16.4	37.	6.8	6.3	.9	81.	0.0	234.	8.10	.081	8.00	96.			
5.	22.20	0.00	.218	40.	17.1	39.	7.1	6.7	.9	83.	0.0	242.	8.00	.090	8.07	95.			
6.48													7.00	-.040					

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6504

SAMPLE DEPTH #	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SD4 MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	Y.ALM MG/L CAC03	P.ALM MG/L CAC03	SPEC. COND. MICRO-MHO	PH	EH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP. MATR 100ML	COLY 100ML
STATION 1	MONTH 8	DAY 23	HOUR 11.3	JULIAN DAY 235	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	21.28	.20	.140	41.	12.7		37.	6.8	6.3	.9	82.	0.0	232.	8.15	.094	8.67	100.		
8.	21.25	0.00			13.2						77.	0.0	228.	8.20	.010	8.47	98.		
9.10														7.02	.02P				
STATION 2	MONTH 8	DAY 23	HOUR 12.4	JULIAN DAY 235	LATITUDE 41.980N	LONGITUDE 83.580W													
0.	22.13	.17	.145	41.	14.2		37.	6.8	6.3	.9	82.	0.0	230.	8.17	.080	8.50	100.		
8.	20.48	0.00			14.2						82.	0.0	220.	8.11	.095	8.55	98.		
9.10														7.07	-.030				
STATION 3	MONTH 8	DAY 23	HOUR 13.5	JULIAN DAY 235	LATITUDE 41.800N	LONGITUDE 83.130W													
0.	22.79	.90	.140	41.	23.0		37.	6.8	6.3	.9	79.	5.4	270.	8.94	.071	8.25	105.		
8.	22.10	.12			23.0						84.	3.2	274.	8.69	.085	8.89	104.		
8.88														7.06	.060				
STATION 4	MONTH 8	DAY 23	HOUR 14.8	JULIAN DAY 235	LATITUDE 41.720N	LONGITUDE 83.160W													
0.	22.92	.62	.140	41.	21.0		37.	6.8	6.3	.9	80.	5.9	260.	8.88	.081	8.68	103.		
5.	22.08	.99			21.1						83.	3.2	262.	8.62	.078	8.62	101.		
7.68														7.32	-.113				
STATION 5	MONTH 8	DAY 23	HOUR 17.3	JULIAN DAY 235	LATITUDE 41.640N	LONGITUDE 82.950W													
0.	23.33	.89	.140	41.	22.3		37.	6.8	6.3	.9	82.	7.5	278.	8.92	.080	8.74	104.		
7.	22.26	0.00			22.6						85.	3.8	275.	8.69	.080	8.64	102.		
7.68														7.20	-.012				
STATION 6	MONTH 8	DAY 24	HOUR 10.6	JULIAN DAY 236	LATITUDE 41.600N	LONGITUDE 82.580W													
0.	22.00	0.00	.140	41.	22.0		37.	6.8	6.3	.9	88.	2.7	271.	8.43	.072	8.28	97.		
5.	21.79	0.00			21.3						87.	1.6	272.	8.48	.071	8.54	100.		
10.	21.82	0.00			21.5						88.	1.1	272.	8.30	.082	8.42	94.		
11.98														7.13	.031				
STATION 7	MONTH 8	DAY 24	HOUR 9.3	JULIAN DAY 236	LATITUDE 41.530N	LONGITUDE 82.500W													
0.	22.10	0.00	.140	41.	24.0		37.	6.8	6.3	.9	91.	2.2	293.	8.42	.108	8.51	100.		
5.	22.14	0.00			24.8						91.	2.2	293.	8.47	.100	8.46	99.		
11.	22.23	0.00			24.0						91.	2.7	293.	8.48	.193	8.51	100.		
13.18														7.06	-.074				
STATION 59	MONTH 8	DAY 24	HOUR 12.6	JULIAN DAY 236	LATITUDE 41.880N	LONGITUDE 82.380W													
0.	22.67	.10	.104	39.	21.4		66.	7.9	9.2	1.0	87.	2.2	276.	8.32	.120	8.22	96.		
16.	21.13	0.00	.072	34.	22.3		56.	7.9	8.0	1.2	89.	1.1	275.	8.29	.109	8.13	94.		
12.	19.87	0.00	.117	34.	21.8		73.	8.1	8.0	1.1	91.	0.0	280.	8.12	.112	7.87	89.		
13.98														7.31	-.093				
STATION 60	MONTH 8	DAY 24	HOUR 14.1	JULIAN DAY 236	LATITUDE 41.840N	LONGITUDE 82.550W													
0.	23.19	0.00	.095	36.	21.1		37.	7.5	8.2	1.0	85.	2.2	260.	8.41	.093	7.98	95.		
5.	22.34	0.00	.127	43.	21.1		37.	7.8	8.2	1.0	86.	1.1	261.	8.32	.091	8.08	95.		
11.	22.34	0.00	.140	41.	21.1		38.	8.1	8.9	1.0	87.	0.0	263.	8.21	.099	7.98	94.		
12.08														7.48	-.080				
STATION 61	MONTH 8	DAY 24	HOUR 15.3	JULIAN DAY 236	LATITUDE 41.950N	LONGITUDE 82.630W													
0.	23.66	0.00	.016	40.	22.0		17.	7.3	9.5	1.0	82.	3.2	261.	8.60	.071	8.23	99.		
9.	22.36	0.00	.205	42.	22.3		37.	7.6	9.5	1.0	83.	2.2	262.	8.35	.071	8.26	97.		
10.74														7.11	0.000				
STATION 62	MONTH 8	DAY 25	HOUR 9.2	JULIAN DAY 237	LATITUDE 41.850N	LONGITUDE 82.880W													
0.	22.20	0.00	.062	39.	21.5		37.	7.4	9.5	1.0	79.	5.4	250.	8.91	.118	8.76	103.		
9.	22.16	0.00	.104	38.	22.0		36.	7.2	10.2	1.0	77.	1.6	259.	8.61	.101	8.76	103.		
10.52														7.30	-.141				
STATION 63	MONTH 8	DAY 25	HOUR 10.5	JULIAN DAY 237	LATITUDE 41.970N	LONGITUDE 83.000W													
0.	21.62	0.00	.245	34.	18.1		34.	7.6	8.0	.9	81.	1.6	242.	8.41	.049	8.77	102.		
7.	21.73	0.00	.192	37.	18.2		34.	7.2	7.8	.9	80.	3.2	241.	8.49	.049	8.79	103.		
8.54														7.11	.109				
STATION 64	MONTH 8	DAY 25	HOUR 11.5	JULIAN DAY 237	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	21.14	0.00	.284	30.	14.1		36.	7.5	5.6	1.0	82.	0.0	236.	8.21	.046	8.71	101.		
5.	21.28	0.00	.153	34.	14.2		35.	7.3	5.5	1.0	83.	3.0	236.	8.23	.040	8.68	100.		
7.38														7.11	.109				

LIMNOLOGICAL DATA
LAKE ERIC

CRUISE 6505

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA #G/L	K MG/L	TOTAL CALCIUM	TOTAL MAGNESIUM	SPEC. COND. MICROHMOS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP. MATR.	TOTAL COLI 100ML
STATION 1 MONTH 8 DAY 31 HOUR 10.9 JULIAN DAY 243 LATITUDE 42.060N LONGITUDE 83.140W																			
0.	18.54	.31	.196	16.	17.1		37.	7.6	6.3	.7	83.	0.0	226.	8.20	.119	9.19	101.		
5.	18.37	0.00	.143	17.	11.3		37.	8.5	6.5	.7	86.	.5	225.	7.11	.109	9.08	100.		
9.18																			
STATION 2 MONTH 8 DAY 31 HOUR 12.2 JULIAN DAY 243 LATITUDE 41.900W LONGITUDE 83.080W																			
0.	19.47	.20	.143	17.	12.2		37.	8.0	6.0	.7	80.	0.0	226.	8.21	.160	9.00	101.		
7.	19.35	0.00	.143	17.	12.3		37.	8.3	5.9	.7	79.	1.0	226.	8.30	.394	9.00	101.		
9.18																			
STATION 3 MONTH 8 DAY 31 HOUR 13.5 JULIAN DAY 243 LATITUDE 41.800N LONGITUDE 83.130W																			
0.	19.94	0.00	0.000	18.	19.5		36.	8.9	10.0	.7	78.	0.0	246.	8.21	.051	6.76	99.		
7.	19.84	.05	0.000	18.	19.2		36.	9.5	10.0	.7	78.	.5	245.	8.28	.056	6.76	99.		
9.18																			
STATION 4 MONTH 8 DAY 31 HOUR 14.5 JULIAN DAY 243 LATITUDE 41.720N LONGITUDE 83.160W																			
0.	20.37	0.00	0.000	20.	27.1		40.	8.0	14.2	1.0	78.	3.1	285.	8.60	.110	8.64	99.		
6.	20.23	.30	0.000	20.	27.1		40.	8.2	13.9	1.0	79.	3.1	285.	8.61	.080	8.68	99.		
7.20																			
STATION 5 MONTH 8 DAY 31 HOUR 16.9 JULIAN DAY 243 LATITUDE 41.640N LONGITUDE 82.950W																			
0.	20.46	.50	0.000	17.	19.7		38.	7.5	9.6	.8	78.	3.6	253.	8.68	.093	8.61	99.		
6.	20.29	0.00	.029	18.	19.7		38.	8.3	9.6	.8	78.	3.6	254.	8.70	.075	8.66	99.		
7.49																			
STATION 6 MONTH 9 DAY 1 HOUR 8.9 JULIAN DAY 244 LATITUDE 41.680N LONGITUDE 82.580W																			
0.	20.84	.13	0.000	22.	21.6		43.	8.9	11.2	1.1	87.	2.1	289.	8.45	.110	8.96	102.		
5.	20.85	0.00	0.000	22.	21.5		43.	8.6	11.1	1.1	87.	2.1	288.	8.48	.091	8.91	102.		
10.	20.72	.60	0.000	22.	21.5		43.	9.7	11.2	1.1	86.	2.1	288.	8.50	.089	8.93	102.		
11.58																			
STATION 7 MONTH 9 DAY 1 HOUR 10.1 JULIAN DAY 244 LATITUDE 41.530N LONGITUDE 82.590W																			
0.	20.93	.43	0.000	23.	23.5		44.	9.4	11.7	1.1	87.	1.6	298.	8.38	.081	8.79	101.		
5.	20.85	.38	0.000	23.	23.5		44.	9.5	11.7	1.2	88.	1.6	296.	8.38	.079	8.83	101.		
11.	20.73	.17	0.000	22.	23.5		44.	8.2	11.5	1.2	88.	1.6	297.	8.35	.071	8.81	101.		
13.48																			
STATION 8 MONTH 9 DAY 1 HOUR 11.4 JULIAN DAY 244 LATITUDE 41.520N LONGITUDE 82.410W																			
0.	20.86	0.00	.062	25.	23.5		46.	9.6	12.3	1.1	90.	1.0	302.	8.30	.110	8.55	99.		
12.	20.71	.61	.091	22.	24.5		45.	9.7	11.7	1.1	91.		301.	8.25	.106	8.66	100.		
14.00																			
STATION 9 MONTH 9 DAY 1 HOUR 12.9 JULIAN DAY 244 LATITUDE 41.540N LONGITUDE 82.210W																			
0.	20.40	0.00	.062	23.	23.5		44.	8.9	11.6	1.1	89.	0.0	300.	8.20	.130	8.77	100.		
10.	20.44	0.00	.062	23.	24.0		44.	8.8	11.4	1.1	89.	0.0	300.	8.20	.130	8.77	100.		
14.	20.30	.95	.143	24.	24.5		51.	8.1	11.3	1.1	89.	0.0	300.	8.20	.137	8.77	100.		
15.08																			
STATION 10 MONTH 9 DAY 1 HOUR 14.7 JULIAN DAY 244 LATITUDE 41.570N LONGITUDE 82.050W																			
0.	20.38	.65	.091	21.	26.4		51.	7.9	11.9	1.3	90.	.5	304.	8.28	.110	8.49	97.		
10.	20.41	.26	.117	23.	26.4		50.	8.3	11.1	1.2	90.	.5	303.	8.28	.113	8.56	97.		
15.	20.27	0.00	.196	22.	26.4		51.	9.1	11.6	1.2	90.	.5	303.	8.27	.110	8.63	98.		
16.10																			
STATION 11 MONTH 9 DAY 1 HOUR 16.5 JULIAN DAY 244 LATITUDE 41.610N LONGITUDE 81.820W																			
0.	20.33	0.00	.218	21.	25.5		51.	7.7	11.8	1.1	90.	1.6	308.	8.32	.080	8.84	98.		
10.	20.49	0.00	.143	21.	26.4		51.	8.6	11.9	1.1	90.	1.6	308.	8.35	.065	8.77	100.		
16.	20.39	0.00	.170	22.	26.2		51.	8.5	12.1	1.2	90.	1.6	307.	8.35	.080	8.74	95.		
18.12																			
STATION 12 MONTH 9 DAY 1 HOUR 17.5 JULIAN DAY 244 LATITUDE 41.540N LONGITUDE 81.790W																			
0.	20.45	0.00	0.000	21.	26.4		51.	7.7	12.1	1.3	89.	1.6	307.	8.32	.078	8.72	99.		
10.	20.58	0.00	0.000	22.	26.4		50.	8.1	12.0	1.2	89.	1.6	308.	8.35	.070	8.77	100.		
14.	20.44	0.00	0.000	22.	26.4		50.	8.7	12.2	1.2	89.	1.6	308.	8.40	.063	8.74	100.		
15.78																			
STATION 13 MONTH 9 DAY 2 HOUR 8.9 JULIAN DAY 245 LATITUDE 41.640N LONGITUDE 81.620W																			
0.	20.32	0.00	0.000	21.	26.6		51.	7.8	11.9	1.2	90.	1.6	309.	8.46	.120	8.84	101.		
10.	20.46	0.00	0.000	22.	26.6		52.	8.9	11.9	1.2	89.	1.6	309.	8.30	.105	8.84	101.		
15.	20.32	0.00	0.300	21.	26.6		52.	8.6	11.9	1.2	89.	1.6	309.	8.40	.102	8.84	101.		
16.12																			
STATION 14 MONTH 9 DAY 2 HOUR 13.4 JULIAN DAY 245 LATITUDE 41.700N LONGITUDE 81.450W																			
0.	20.61	0.00	0.000	22.	29.6		52.	8.2	13.0	1.4	88.	3.1	321.	8.52	.070	8.60	99.		
10.	20.31	0.00	0.000	23.	29.6		54.	8.0	12.3	1.4	89.	2.1	323.	8.49	.075	8.60	98.		
11.98																			

LYMNOLOGICAL DATA
LAKE ERIE

CRUISE 6505

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SID2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CALCO3 MG/L	P.ALK CALCO3 MG/L	SPEC. COND. MICRO-MHOS	PH	EM VOLTS	CO MG/L	DO PCT.	TOT. SUSP. MATR MG/L	TOTAL COLT 100ML
STATION 15 MONTH 9 DAY 7 HOUR 11.4 JULIAN DAY 245 LATITUDE 41.780N LONGITUDE 81.520W																			
0.	20.38	0.00	0.000	20.	27.6		52.	9.0	11.9	1.2	88.	1.0	309.	8.30	.077	8.53	97.		
10.	20.15	.69	0.000	21.	26.6		53.	8.6	11.8	1.2	90.	1.0	308.	8.23	.079	8.69	99.		
15.	20.26	0.00	0.000	21.	26.6		52.	8.8	12.1	1.2	90.	1.0	309.	8.20	.073	8.69	99.		
19.	20.15	0.00	0.000	20.	26.6		52.	8.4	12.4	1.2	90.	1.0	309.	8.32	.085	8.68	98.		
21.08														6.90	.052				
STATION 18 MONTH 9 DAY 7 HOUR 12.4 JULIAN DAY 245 LATITUDE 41.870N LONGITUDE 81.580W																			
0.	20.46	0.00	0.000	23.	26.1		51.	9.1	11.8	1.2	90.	1.0	304.	8.28	.160	8.70	99.		
10.	19.87	0.00	0.000	24.	25.6		52.	8.3	11.8	1.0	90.	1.0	303.	8.25	.146	8.74	98.		
15.	19.98	0.00	0.000	22.	25.6		46.	8.2	11.4	1.1	89.	1.0	302.	8.30	.130	8.75	99.		
21.	19.50	.04	0.000	23.	25.6		48.	8.5	11.4	1.1	90.	1.0	303.	8.30	.120	8.75	98.		
23.20														7.00	-.060				
STATION 17 MONTH 9 DAY 7 HOUR 14.5 JULIAN DAY 245 LATITUDE 41.780N LONGITUDE 81.280W																			
0.	20.13	.22	0.000	26.	31.1		47.	9.0	14.7	1.4	87.	2.6	331.	8.52	.180	8.56	97.		
9.	19.80	.19	0.000	30.	31.9		96.	9.4	23.1	1.8	89.	1.0	349.	8.32	.158	8.74	99.		
11.39														7.60	.150				
STATION 1A MONTH 9 DAY 2 HOUR 15.9 JULIAN DAY 245 LATITUDE 41.870N LONGITUDE 81.100W																			
0.	21.15	.55	0.000	24.	30.6		47.	9.2	14.1	1.2	90.	1.6	324.	8.40	.205	8.70	100.		
10.	20.27	.03	0.000	24.	33.5		48.	8.8	15.0	1.2	91.	1.0	330.	8.29	.180	8.70	99.		
14.	20.10	.06	0.000	25.	34.0		48.	8.9	15.6	1.2	91.	1.0	335.	8.30	.171	8.62	94.		
14.08														7.01	-.048				
STATION 14 MONTH 9 DAY 3 HOUR 4.1 JULIAN DAY 246 LATITUDE 41.950N LONGITUDE 80.850W																			
0.	20.03	.24	0.000	24.	28.2		46.	8.3	14.0	1.1	90.	2.1	318.	8.40	.170	8.09	100.		
10.	20.09	.06	0.000	25.	28.9		46.	8.6	14.3	1.1	90.	2.1	320.	8.40	.141	8.81	100.		
16.	19.96	.05	0.000	22.	28.9		50.	8.8	13.9	1.2	90.	2.1	320.	8.40	.129	8.84	100.		
18.18														7.85	-.166				
STATION 20 MONTH 9 DAY 3 HOUR 9.9 JULIAN DAY 246 LATITUDE 42.170N LONGITUDE 80.770W																			
0.	19.60	0.00	0.000	24.	26.0		44.	8.3	13.0	1.1	90.	2.1	305.	8.48	.119	8.72	99.		
10.	19.60	.19	0.000	23.	25.9		44.	8.6	12.7	1.1	90.	2.1	304.	8.48	.110	8.77	99.		
15.	19.51	0.00	0.000	24.	26.0		46.	8.9	12.7	1.1	89.	2.1	304.	8.50	.108	8.83	99.		
20.	16.81	.18	0.000	24.	25.9		45.	9.1	13.2	1.1	90.	2.1	307.	8.42	.113	8.80	94.		
22.38														7.49	.060				
STATION 21 MONTH 9 DAY 3 HOUR 11.7 JULIAN DAY 246 LATITUDE 41.980N LONGITUDE 80.680W																			
0.	21.06	.10	0.000	25.	29.6		47.	8.8	14.2	1.1	92.	1.6	315.	8.38	.133	8.47	97.		
10.	20.07	.15	0.000	25.	29.8		47.	9.1	14.4	1.2	92.	1.6	318.	8.38	.130	8.64	98.		
15.	19.97	.21	0.000	23.	29.8		51.	8.8	14.5	1.2	92.	1.6	319.	8.38	.123	8.57	96.		
15.99														7.20	-.195				
STATION 22 MONTH 9 DAY 3 HOUR 13.4 JULIAN DAY 246 LATITUDE 42.050N LONGITUDE 80.400W																			
0.	20.85	0.00	0.000	24.	28.4		48.	8.9	13.9	1.1	89.	2.6	315.	8.50	.082	8.57	99.		
12.	19.74	.01	0.000	24.	29.8		47.	7.9	14.5	1.2	91.	2.1	319.	8.49	.080	8.66	96.		
13.48														7.49	-.053				
STATION 23 MONTH 9 DAY 3 HOUR 14.5 JULIAN DAY 246 LATITUDE 42.100N LONGITUDE 80.250W																			
0.	20.86	0.00	0.000	25.	33.8		53.	7.5	13.9	1.1	87.	4.2	332.	8.60	.092	8.73	100.		
8.	19.94	.56	0.000	24.	34.0		52.	9.0	13.4	1.1	89.	4.2	334.	8.60	.088	8.82	100.		
9.18														7.68	-.177				
STATION 24 MONTH 9 DAY 4 HOUR 2.8 JULIAN DAY 247 LATITUDE 42.140N LONGITUDE 80.020W																			
0.	19.91	.22	0.000	24.	30.8		52.	6.9	13.3	1.1	89.	1.6	326.	8.36	.170	8.90	100.		
12.	19.79	0.00	0.000	23.	30.5		52.	9.2	13.2	1.2	88.	1.6	326.	8.41	.150	8.94	101.		
13.48														6.90	-.081				
STATION 25 MONTH 9 DAY 4 HOUR 10.2 JULIAN DAY 247 LATITUDE 42.270N LONGITUDE 79.830W																			
0.	19.75	0.00	0.000	24.	27.4		48.	8.3	11.6	1.1	94.	2.2	313.	8.43	.073	8.71	99.		
10.	19.59	0.00	0.000	23.	26.4		50.	9.3	11.5	1.1	94.	2.2	313.	8.40	.073	8.82	99.		
14.	15.96	.08	0.000	24.	25.9		51.	8.9	11.4	1.1	94.	0.0	314.	8.18	.085	8.96	94.		
15.78														6.90	-.081				
STATION 26 MONTH 9 DAY 4 HOUR 11.0 JULIAN DAY 247 LATITUDE 42.350N LONGITUDE 79.630W																			
0.	20.13	.02	0.000	25.	26.4		51.	8.6	12.2	1.1	94.	1.1	315.	8.38	.091	8.40	95.		
10.	19.34	.32	0.000	26.	26.9		51.	8.7	12.2	1.1	94.	1.1	315.	8.34	.098	8.49	95.		
16.	15.85	.18	.117	25.	27.1		51.	9.1	11.9	1.2	96.	0.0	315.	8.20	.102	8.64	89.		
17.48														7.23	-.041				
STATION 27 MONTH 9 DAY 4 HOUR 13.2 JULIAN DAY 247 LATITUDE 42.460N LONGITUDE 79.520W																			
0.	20.15	0.00	0.000	23.	25.4		50.	9.1	11.5	1.2	94.	1.6	311.	8.32	.109	8.32	94.		
10.	19.97	.25	0.000	25.	27.4		51.	8.9	11.3	1.0	94.	1.6	310.	8.35	.100	8.44	95.		
20.	17.65	0.00	0.000	25.	26.9		53.	8.8	11.3	1.1	94.	1.6	310.	8.40	.101	8.46	95.		
22.18														7.23	-.041				

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6505

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L Y	PO4 MG/L P	SO4 MG/L	CL MG/L	SI O2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CACO3 MG/L	PALM CACO3 MG/L	SPECI COND- MICRO- MHOS	PH	EM VOLTS	DO MG/L	NO PCT. SAT.	TOT. SUSP MATERIAL MG/L	TOTAL COOL 100ML
STATION 28 MONTH 9 DAY 4 HOUR 14.4 JULIAN DAY 247 LATITUDE 42.560N LONGITUDE 79.546W																			
0.	20.87	.24	0.000	23.	26.4	50.	8.9	11.5	1.2	94.	2.2	312.	8.48	.130	8.45	97.			
10.	20.06	0.00	0.000	24.	26.4	50.	9.1	11.6	1.1	94.	1.6	310.	8.42	.122	8.56	97.			
20.	19.60	0.00	0.000	25.	25.9	52.	8.7	11.6	1.0	94.	1.6	312.	8.39	.121	8.55	97.			
30.	5.91	0.00	0.000	24.	25.4	50.	8.3	10.9	2.0	96.	0.0	310.	7.90	.130	9.12	75.			
40.	4.81	0.00	0.000	23.	25.9	50.	8.3	11.1	1.8	97.	0.0	314.	7.81	.135	8.90	72.			
19.2B																			
STATION 29 MONTH 9 DAY 4 HOUR 15.9 JULIAN DAY 247 LATITUDE 42.530N LONGITUDE 79.530W																			
0.	20.92	.34	0.000	25.	26.9	51.	8.6	11.8	1.0	94.	2.2	311.	8.40	.100	8.00	92.			
10.	20.10	0.00	0.000	23.	26.6	50.	8.6	11.6	1.0	94.	2.2	310.	8.40	.096	8.30	94.			
18.	19.61	0.00	0.000	26.	26.4	52.	9.3	11.2	1.0	94.	2.2	311.	8.45	.100	8.30	93.			
19.6B																			
STATION 30 MONTH 9 DAY 5 HOUR 8.9 JULIAN DAY 248 LATITUDE 42.500N LONGITUDE 79.100W																			
0.	19.97	.09	0.000	24.	25.4	52.	10.1	11.2	1.0	94.	2.2	310.	8.40	.164	8.96	101.			
10.	20.08	0.00	0.000	26.	25.4	52.	10.2	11.4	1.0	94.	2.2	310.	8.44	.132	9.08	103.			
16.	19.98	1.00	0.000	26.	25.4	50.	10.1	11.3	1.0	92.	2.2	310.	8.50	.120	9.06	103.			
18.2B																			
STATION 31 MONTH 9 DAY 5 HOUR 10.6 JULIAN DAY 248 LATITUDE 42.730N LONGITUDE 75.050W																			
0.	19.98	.03	0.000	25.	26.4	48.	9.5	11.2	1.0	94.	2.2	311.	8.42	.110	8.75	99.			
7.	20.07	.34	0.000	26.	25.4	47.	9.7	11.4	1.0	93.	2.2	311.	8.42	.102	8.82	100.			
14.	19.95	.06	0.000	23.	26.2	45.	9.6	10.9	1.0	94.	2.2	310.	8.49	.109	8.79	99.			
15.2B																			
STATION 32 MONTH 9 DAY 4 HOUR 12.0 JULIAN DAY 248 LATITUDE 42.840N LONGITUDE 78.520W																			
0.	19.89	.23	0.000	25.	25.9	50.	9.8	11.3	1.0	93.	2.7	309.	8.54	.081	8.76	99.			
10.	19.86	0.00	0.000	25.	25.4	50.	9.4	11.6	1.0	93.	3.2	309.	8.60	.075	8.82	99.			
12.3B																			
STATION 33 MONTH 9 DAY 5 HOUR 13.2 JULIAN DAY 248 LATITUDE 42.820N LONGITUDE 74.070W																			
0.	20.10	0.00	0.000	25.	26.4	50.	9.7	11.5	1.0	94.	2.7	313.	8.50	.080	8.79	99.			
10.	19.80	.19	0.000	26.	25.5	52.	9.6	11.2	1.1	94.	2.2	313.	8.45	.083	8.88	99.			
15.	19.89	.06	0.000	24.	26.4	51.	9.6	11.8	1.1	94.	2.7	313.	8.50	.079	8.85	100.			
18.1B																			
STATION 34 MONTH 9 DAY 5 HOUR 14.6 JULIAN DAY 248 LATITUDE 42.720N LONGITUDE 74.220W																			
0.	19.95	.95	0.000	26.	25.5	50.	9.1	11.8	1.0	93.	2.7	314.	8.45	.065	8.84	100.			
10.	19.82	0.00	0.000	27.	25.4	51.	9.8	11.5	1.0	93.	2.7	313.	8.50	.066	8.93	105.			
20.	19.71	.35	0.000	25.	25.5	51.	10.1	11.8	1.2	95.	2.7	314.	8.50	.068	8.84	99.			
21.9B																			
STATION 35 MONTH 9 DAY 5 HOUR 15.8 JULIAN DAY 248 LATITUDE 42.820N LONGITUDE 79.240W																			
0.	19.63	0.00	0.000	25.	27.1	51.	10.1	11.4	1.1	95.	2.2	318.	8.45	.073	8.98	101.			
10.	19.46	0.00	0.000	25.	25.9	51.	9.7	11.4	1.2	94.	2.7	316.	8.48	.072	9.04	101.			
16.	19.44	.17	0.000	26.	25.0	51.	9.7	11.2	1.0	94.	2.7	316.	8.50	.075	9.04	101.			
18.6B																			
STATION 36 MONTH 9 DAY 6 HOUR 9.7 JULIAN DAY 249 LATITUDE 42.800N LONGITUDE 75.580W																			
0.	19.25	.28	0.000	25.	26.1	50.	9.9	11.2	1.1	95.	1.6	315.	8.40	.135	9.29	104.			
10.	19.04	.30	0.000	25.	25.9	50.	10.0	11.0	1.1	95.	1.6	318.	8.38	.102	9.16	102.			
18.	18.95	.06	0.000	24.	26.0	51.	9.2	11.2	1.1	92.	1.1	317.	8.40	.101	9.01	100.			
20.2B																			
STATION 37 MONTH 9 DAY 6 HOUR 11.3 JULIAN DAY 249 LATITUDE 42.680N LONGITUDE 79.680W																			
0.	19.59	.18	0.000	23.	26.9	46.	8.8	11.2	1.0	94.	1.6	312.	8.40	.092	8.95	101.			
10.	19.61	.22	0.000	25.	26.3	47.	8.5	11.2	1.0	94.	1.6	312.	8.40	.088	8.98	101.			
20.	19.17	0.00	0.000	24.	26.1	47.	9.1	11.6	1.0	94.	1.6	311.	8.40	.090	8.98	100.			
30.	5.13	0.00	0.000	23.	25.5	46.	8.6	11.5	1.0	97.	0.0	315.	7.75	.110	8.90	74.			
32.9B																			
STATION 39 MONTH 9 DAY 6 HOUR 17.5 JULIAN DAY 249 LATITUDE 42.620N LONGITUDE 80.000W																			
0.	19.08	.23	0.000	25.	25.9	46.	9.0	11.3	.9	95.	2.2	313.	8.43	.085	8.76	97.			
10.	18.79	.45	0.000	25.	25.7	47.	8.1	12.5	1.0	94.	1.6	312.	8.40	.095	8.92	98.			
20.	18.22	0.00	0.000	23.	25.9	46.	8.1	11.5	.9	95.	1.6	311.	8.40	.098	8.98	98.			
30.	15.03	0.00	0.000	23.	25.9	44.	8.3	11.6	.9	98.	0.0	318.	7.92	.110	8.72	85.			
39.	6.83	.25	0.000	23.	25.9	48.	8.4	11.6	1.1	98.	0.0	317.	7.85	.121	8.69	74.			
41.1B																			
STATION 40 MONTH 9 DAY 6 HOUR 15.0 JULIAN DAY 249 LATITUDE 42.520N LONGITUDE 79.040W																			
0.	18.45	0.00	0.000	24.	25.4	46.	8.5	11.7	.9	94.	1.6	311.	8.40	.131	8.75	95.			
10.	19.37	0.00	0.000	25.	25.2	48.	8.9	11.5	1.0	94.	2.6	311.	8.40	.123	8.85	97.			
20.	15.64	0.00	0.000	23.	25.9	47.	8.7	11.2	1.0	96.	0.0	312.	8.11	.110	8.40	91.			
30.	7.75	0.00	0.000	23.	25.9	49.	8.6	11.5	1.0	97.	0.0	312.	7.90	.149	8.85	77.			
40.	6.83	0.00	0.000	23.	25.9	48.	8.0	11.3	1.1	97.	0.0	314.	7.90	.151	8.72	73.			
57.	4.61	.19	0.000	22.		49.	8.1	11.1	1.0	98.	0.0	314.	7.57	.151	8.61	71.			
61.2B																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6505

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SDA MG/L	CL MG/L	SI02 MG/L	CA MG/L	Mg MG/L	NA MG/L	K MG/L	T.ALK	P.ALK	SPEC. COND.	PH	CH VOL%	DO MG/L	DO PCT SAT	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
											MG/L	MG/L							
STATION 41 MONTH 9 DAY 6 HOUR 16.8 JULIAN DAY 249 LATITUDE 42.430N LONGITUDE 79.960W																			
0.	19.27	0.00	0.000	26.	25.9		48.	8.1	11.6	1.0	94.	2.2	312.	8.42	.084	8.66	96.		
10.	18.77	.01	0.000	22.	25.9		48.	8.8	11.2	1.0	94.	2.2	312.	8.40	.085	8.61	97.		
20.	17.94	.05	0.000	23.	25.5		48.	8.5	11.6	1.0	94.	2.2	311.	8.41	.091	8.84	96.		
30.	5.01	.09	0.000	22.	25.9		49.	8.4	11.5	1.0	98.	0.0	316.	7.94	.109	8.53	72.		
42.	4.85	0.00	0.000	26.	25.8		50.	8.5	11.3	1.0	98.	0.0	316.	7.98	.110	8.97	72.		
45.7R																			
STATION 42 MONTH 9 DAY 5 HOUR 17.8 JULIAN DAY 249 LATITUDE 42.370N LONGITUDE 79.920W																			
0.	19.26	0.00	0.000	27.	26.9		48.	10.1	11.6	.9	94.	2.7	318.	8.50	.012	8.70	95.		
10.	19.32	0.00	0.000	26.	26.1		49.	7.4	11.5	.9	95.	2.7	317.	8.45	.030	8.56	55.		
20.	6.59	.39	0.000	25.	26.1		49.	7.6	11.6	.8	97.	0.0	321.	7.05	.050	8.87	75.		
35.	5.64	0.00	0.000	25.	25.9		48.	8.6	11.3	.9	98.	0.0	320.	7.95	.060	8.99	74.		
38.8R														7.71	.036				
STATION 43 MONTH 9 DAY 7 HOUR 9.8 JULIAN DAY 250 LATITUDE 42.160N LONGITUDE 80.330W																			
0.	19.56	0.00	0.000	26.	22.3		50.	7.2	12.1	.8	92.	2.2	334.	8.48	.120	8.77	100.		
10.	19.29	.09	0.000	27.	29.5		50.	8.7	12.7	.9	94.	1.6	328.	8.40	.111	9.07	101.		
15.	16.99	0.00	0.000	25.	26.4		49.	8.8	11.7	.8	96.	0.0	318.	8.15	.112	9.18	98.		
20.	18.79	0.00	0.000	25.	25.4		50.	8.7	11.6	.9	97.	0.0	321.	7.98	.120	9.44	84.		
22.7R														7.65	.090				
STATION 44 MONTH 9 DAY 7 HOUR 10.8 JULIAN DAY 250 LATITUDE 42.250N LONGITUDE 80.330W																			
0.	19.71	0.00	0.000	24.	26.2		49.	8.7	12.0	.9	94.	2.2	306.	8.40	.121	8.82	99.		
10.	18.99	.02	0.000	25.	26.2		49.	8.5	11.6	.9	94.	2.2	307.	8.40	.119	9.01	100.		
18.	14.82	.23	0.000	24.	25.4		49.	8.8	11.3	.9	97.	0.0	307.	8.20	.121	9.17	94.		
19.6R														7.60	.112				
STATION 45 MONTH 9 DAY 7 HOUR 12.2 JULIAN DAY 250 LATITUDE 42.330N LONGITUDE 80.400W																			
0.	19.14	0.00	0.000	22.	25.4		48.	8.6	11.7	.9	94.	1.6	308.	8.40	.106	9.06	101.		
10.	18.78	.30	0.000	24.	25.4		48.	8.6	11.7	.9	95.	1.6	306.	8.40	.111	9.12	101.		
15.	18.63	0.10	0.000	23.	25.2		50.	8.3	11.4	.8	94.	2.2	307.	8.45	.111	9.11	100.		
15.5R														7.60	.090				
STATION 46 MONTH 9 DAY 7 HOUR 13.4 JULIAN DAY 250 LATITUDE 42.470N LONGITUDE 80.460W																			
0.	19.31	0.00	0.000	25.	25.4		48.	8.5	11.7	.9	94.	2.7	306.	8.50	.192	8.91	99.		
10.	18.66	0.00	0.000	24.	24.5		48.	8.8	11.5	1.0	94.	1.6	307.	8.38	.101	9.03	100.		
16.	18.00	0.00	0.000	24.	23.7		49.	8.1	11.8	.8	95.	1.6	307.	8.30	.093	9.05	99.		
16.3R														7.60	-.072				
STATION 47 MONTH 9 DAY 7 HOUR 15.1 JULIAN DAY 250 LATITUDE 42.520N LONGITUDE 80.480W																			
0.	19.29	.20	0.000	24.	25.9		47.	8.3	11.4	.8	95.	1.1	304.	8.31	.097	8.94	100.		
10.	18.36	0.00	0.000	25.	25.4		48.	8.6	11.4	.9	97.	0.0	305.	8.22	.167	8.90	98.		
15.	18.18	.06	0.000	28.	25.4		48.	7.6	11.7	1.0	97.	0.0	305.	8.25	.165	9.02	99.		
17.4R														7.40	-.024				
STATION 48 MONTH 9 DAY 8 HOUR 8.7 JULIAN DAY 251 LATITUDE 42.520N LONGITUDE 80.930W																			
0.	19.17	0.00	0.000	24.	22.6		46.	6.9	11.6	1.2	93.	.5	301.	8.28	.167	9.07	101.		
10.	18.88	0.00	0.000	23.	25.4		46.	7.4	11.3	1.2	95.	0.0	302.	8.21	.127	9.05	100.		
17.	18.63	0.00	0.000	22.	25.0		47.	7.7	11.5	1.2	92.	0.0	302.	8.20	.129	8.60	98.		
18.9R														7.60	-.073				
STATION 49 MONTH 9 DAY 8 HOUR 10.3 JULIAN DAY 251 LATITUDE 42.350N LONGITUDE 80.850W																			
0.	18.64	.23	0.000	23.	24.5		44.	7.6	11.5	1.2	94.	0.0	300.	8.25	.152	8.59	95.		
10.	18.79	.07	0.000	22.	24.7		47.	8.1	11.7	1.2	95.	0.0	302.	8.22	.140	8.74	97.		
19.	18.05	0.00	0.000	22.	25.4		48.	8.3	11.6	1.2	95.	.5	304.	8.29	.123	8.70	95.		
21.2R														7.20	.023				
STATION 50 MONTH 9 DAY 8 HOUR 11.8 JULIAN DAY 251 LATITUDE 42.310N LONGITUDE 81.000W																			
0.	19.22	0.00	0.000	22.	25.9		44.	8.3	12.0	1.2	91.	2.2	305.	8.45	.090	8.64	97.		
10.	19.14	0.00	0.000	22.	25.5		48.	7.9	11.9	1.2	92.	2.2	305.	8.45	.099	8.79	98.		
20.	18.67	.08	0.000	22.	25.5		48.	7.3	12.1	1.2	94.	1.6	305.	8.40	.103	8.73	97.		
21.4R														7.41	-.030				
STATION 51 MONTH 9 DAY 8 HOUR 13.4 JULIAN DAY 251 LATITUDE 42.250N LONGITUDE 81.320W																			
0.	19.63	0.00	0.000	21.	25.4		48.	7.7	11.9	1.1	92.	2.2	303.	8.45	.102	8.54	97.		
10.	19.56	0.00	0.000	23.	25.5		49.	7.4	11.9	1.1	94.	2.2	304.	8.42	.101	8.71	98.		
20.	19.36	0.00	0.000	20.	25.4		47.	7.6	11.9	1.2	94.	1.6	304.	8.42	.100	8.66	97.		
22.7R														7.20	-.020				
STATION 52 MONTH 9 DAY 8 HOUR 14.9 JULIAN DAY 251 LATITUDE 42.350N LONGITUDE 81.370W																			
0.	19.21	.48	0.000	21.	25.0		47.	7.6	11.6	1.2	93.	2.2	301.	8.50	.090	8.60	98.		
10.	19.24	.16	0.000	21.	25.4		48.	7.9	11.8	1.2	93.	1.6	302.	8.46	.084	8.62	98.		
15.	19.01	.02	0.000	21.	24.7		48.	7.4	11.6	1.2	92.	1.6	302.	8.37	.084	8.65	98.		
20.	17.40	.40	.029	21.	25.4		48.	7.9	11.3	1.2	97.	0.0	309.	7.52	.106	7.74	75.		
22.3R														7.22	0.000				

LIMNOLOGICAL DATA
LAWC ERIC

CRUISE 6505

SAMPLE DEPTH	WATER TEMP	NO3	PO4	SD4	CL	SD2	CA	MG	NA	K	TALK	PALK	SPEC.	PH	CH	DO	DO	TOT. SUSP.	TOTAL COLY.	
M	C	M/L	M/L	M/L	M/L	M/L	M/L	M/L	M/L	M/L	M/L	M/L	M/L		MLTS	M/L	PCY.	MLR	ICOML	
											CALCO3	CALCO3	MICRO-MMDS				SAT.			
STATION 53	MONTH 9	DAY 9	HOOR 16.6	JULIAN DAY 251	LATITUDE 42.380N	LONGITUDE 81.410W														
0.	19.60	.03	0.000	21.	25.5	48.	7.5	11.4	1.2	92.	2.7	300.	8.54	.148	8.46	95.				
10.	19.38	0.00	0.000	24.	24.7	48.	7.9	11.8	1.1	92.	1.6	302.	8.40	.140	8.38	94.				
20.	17.02	0.00	0.000	21.	24.6	47.	7.8	11.7	1.2	95.	0.0	303.	8.00	.145	8.23	87.				
20.7B														7.18	.025					
STATION 54	MONTH 9	DAY 9	HOOR 8.6	JULIAN DAY 252	LATITUDE 42.240N	LONGITUDE 81.810W														
0.	19.31	0.00	0.000	23.	25.9	48.	8.1	11.4	1.0	92.	1.0	302.	8.30	.095	8.92	100.				
10.	19.23	0.00	0.000	22.	26.2	48.	8.1	11.2	1.0	93.	1.0	302.	8.30	.102	8.95	100.				
17.	15.23	0.00	.378	21.	25.8	48.	8.4	11.7	1.0	96.	0.0	307.	7.69	.115	8.40	86.				
19.1B														7.13	0.000					
STATION 55	MONTH 9	DAY 9	HOOR 9.9	JULIAN DAY 252	LATITUDE 42.120N	LONGITUDE 81.740W														
0.	20.21	.01	0.000	21.	25.9	48.	8.2	11.6	.9	93.	.5	302.	8.25	.050	7.00	102.				
10.	20.03	0.00	0.000	22.	25.9	49.	7.9	11.4	.8	93.	1.0	302.	8.30	.055	8.89	101.				
15.	20.15	0.00	0.000	23.	26.6	50.	8.0	11.1	.8	92.	1.0	302.	8.20	.060	8.60	101.				
21.	12.02	0.00	.466	21.	26.0	49.	8.4	11.2	1.0	97.	0.0	309.	7.48	.083	8.02	77.				
23.9B														7.10	-.130					
STATION 56	MONTH 9	DAY 9	HOOR 11.1	JULIAN DAY 252	LATITUDE 41.990N	LONGITUDE 81.540W														
0.	20.17	.11	0.000	22.	25.9	48.	7.8	11.3	.8	92.	1.6	300.	6.40	.070	8.71	99.				
10.	19.90	0.00	0.000	21.	25.5	48.	8.5	11.1	.8	92.	1.6	300.	6.40	.070	8.68	96.				
15.	19.90	.23	0.000	21.	25.9	48.	8.1	11.4	.9	93.	1.6	300.	6.40	.073	8.66	96.				
22.	19.88	0.00	0.000	22.	25.7	48.	8.1	11.5	.9	93.	1.0	300.	6.30	.075	8.59	95.				
24.6B														6.93	.050					
STATION 57	MONTH 9	DAY 9	HOOR 13.8	JULIAN DAY 252	LATITUDE 42.040N	LONGITUDE 82.040W														
0.	20.23	0.00	0.000	22.	26.1	49.	8.1	11.3	.9	92.	1.6	304.	6.39	.129	8.43	96.				
10.	20.18	.01	0.000	22.	26.7	49.	7.9	11.4	.9	94.	1.0	304.	6.37	.117	8.50	96.				
20.	12.17	0.00	.466	20.	26.9	49.	8.1	11.3	1.1	98.	0.0	312.	7.40	.108	7.57	73.				
21.9B														7.03	.077					
STATION 58	MONTH 9	DAY 9	HOOR 15.5	JULIAN DAY 252	LATITUDE 42.070N	LONGITUDE 82.300W														
0.	20.35	.02	0.000	20.	25.0	46.	7.8	10.9	.9	89.	2.1	289.	8.43	.082	8.43	94.				
10.	19.97	0.00	0.000	20.	25.0	46.	7.9	10.7	.9	92.	1.0	291.	8.30	.091	8.46	96.				
16.	19.67	.17	0.000	26.	25.0	47.	9.1	10.8	.9	92.	1.0	293.	8.31	.090	8.41	95.				
16.6B														7.34	-.011					
STATION 59	MONTH 9	DAY 9	HOOR 17.4	JULIAN DAY 252	LATITUDE 41.980N	LONGITUDE 82.380W														
0.	21.22	0.00	0.000	19.	21.0	43.	9.0	10.0	.9	86.	2.6	270.	8.50	.093	8.33	96.				
11.	20.12	.04	0.000	19.	21.0	44.	8.0	10.3	.9	92.	1.0	280.	8.38	.090	8.33	94.				
14.0B														7.30	-.061					
STATION 60	MONTH 9	DAY 9	HOOR 19.8	JULIAN DAY 252	LATITUDE 41.840N	LONGITUDE 82.550W														
0.	21.28	.19	0.000	19.	22.0	42.	7.5	9.4	.8	86.	4.2	261.	8.65	.050	8.46	98.				
10.	19.86	.19	0.000	23.	23.0	44.	7.8	10.3	.7	87.	1.0	280.	8.30	.060	8.42	95.				
12.0B														7.20	-.102					
STATION 61	MONTH 9	DAY 9	HOOR 20.1	JULIAN DAY 252	LATITUDE 41.950N	LONGITUDE 82.630W														
0.	21.19	.02	0.000	22.	23.0	40.	7.6	10.2	.6	79.	5.2	255.	8.73	.060	8.31	96.				
9.	20.54	.09	0.000	20.	22.0	40.	7.7	9.8	.7	83.	2.1	260.	8.50	.060	8.32	95.				
10.7B														7.00	-.010					
STATION 62	MONTH 9	DAY 10	HOOR 9.3	JULIAN DAY 253	LATITUDE 41.850N	LONGITUDE 82.880W														
0.	20.44	.22	0.000	19.	20.7	39.	7.2	7.7	.6	79.	1.0	254.	8.35	.090	8.76	100.				
8.	20.27	0.00	.170	19.	20.8	38.	7.3	8.8	.6	79.	1.0	254.	8.32	.090	8.92	101.				
10.5B														6.05	0.000					
STATION 63	MONTH 9	DAY 10	HOOR 10.6	JULIAN DAY 253	LATITUDE 41.570N	LONGITUDE 83.000W														
0.	20.24	.13	0.000	14.	20.9	38.	7.2	9.1	.6	80.	2.1	254.	8.45	.075	8.47	101.				
8.	19.99	.17	0.000	18.	21.2	38.	7.8	9.1	.6	79.	3.1	254.	8.50	.075	8.96	101.				
8.5B														6.90	.021					
STATION 64	MONTH 9	DAY 10	HOOR 11.7	JULIAN DAY 253	LATITUDE 42.000N	LONGITUDE 83.140W														
0.	20.72	.23	.117	20.	26.6	38.	7.5	6.0	.8	83.	0.0	244.	7.90	.080	8.08	97.				
5.	20.27	.32	0.000	20.	26.6	38.	7.8	5.0	.6	83.	0.0	238.	8.02	.080	8.59	96.				
8.5B														7.92	0.000					

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE #506

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SQA MG/L	CL MG/L	SI02 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CALCIUM	P-ALK CALCIUM	SPEC. COND.	PH	CH VOLTS	OD MG/L	DO PCT. SAT.	TOT. SUSP. MATR	TOTAL COLI 100ML
STATION 1 MONTH 9 DAY 14 HOUR 10.7 JULIAN DAY 257 LATITUDE 42.000N LONGITUDE 83.140W																			
0	18.77	0.00	.143	16.	18.9		38.	10.2	6.0	.7	83.	0.0	227.	8.11	.079	9.00	99.		
5	18.89	0.00	.160	16.	12.0		38.	10.3	6.1	.8	83.	0.0	226.	8.10	.092	9.17	101.		
9.18														7.92	0.000				
STATION 2 MONTH 9 DAY 14 HOUR 11.7 JULIAN DAY 257 LATITUDE 41.900N LONGITUDE 83.080W																			
0	19.98	0.00	.078	18.	29.1		42.	10.3	15.7	1.0	85.	0.0	291.	8.00	.110	8.88	96.		
7	19.65	0.00	.098	18.	27.8		42.	10.4	15.1	.9	85.	0.0	294.	7.95	.111	8.61	98.		
9.49														7.08	-.260				
STATION 3 MONTH 9 DAY 14 HOUR 12.8 JULIAN DAY 257 LATITUDE 41.800N LONGITUDE 83.130W																			
0	20.75	0.00	.052	18.	17.9		42.	10.2	9.1	.9	84.	1.0	252.	8.60	.089	8.61	99.		
7	19.70	0.00	.026	19.	17.4		41.	10.0	9.1	.9	82.	1.0	254.	8.32	.098	8.58	96.		
8.49														6.92	-.125				
STATION 4 MONTH 9 DAY 14 HOUR 13.5 JULIAN DAY 257 LATITUDE 41.720N LONGITUDE 83.160W																			
0	20.81	0.00	0.000	18.	21.4		42.	9.9	11.7	.9	84.	5.2	267.	8.80	.015	8.71	100.		
6	19.84	0.00	0.000	19.	21.2		42.	9.6	11.5	.9	84.	5.2	268.	8.52	.026	8.62	98.		
7.68														7.22	-.060				
STATION 5 MONTH 9 DAY 14 HOUR 16.3 JULIAN DAY 257 LATITUDE 41.640N LONGITUDE 82.950W																			
0	21.77	0.00	.197	17.	17.2		40.	9.1	9.8	.7	82.	3.1	250.	8.60	.138	8.66	101.		
6	19.86	.36	.124	17.	17.9		40.	9.3	9.9	.8	83.	1.0	257.	8.30	.160	8.61	97.		
7.98														7.08	-.045				
STATION 6 MONTH 9 DAY 15 HOUR 9.3 JULIAN DAY 258 LATITUDE 41.680N LONGITUDE 82.580W																			
0	19.86	0.00	.124	18.	24.0		43.	8.7	10.6	.8	85.	1.0	267.	8.39	.120	9.06	102.		
9	19.89	0.00	0.000	17.	20.4		43.	8.0	10.6	.8	86.	.5	267.	8.40	.108	9.07	102.		
11.68														7.75	.065				
STATION 7 MONTH 9 DAY 15 HOUR 10.8 JULIAN DAY 258 LATITUDE 41.530N LONGITUDE 82.590W																			
0	20.08	0.00	.026	19.	21.4		44.	8.4	10.4	.9	88.	1.0	277.	8.38	.050	8.88	101.		
11	20.08	0.00	.016	20.	17.9		43.	8.5	10.3	.9	88.	1.6	276.	8.40	.070	8.87	101.		
13.18														7.12	-.160				
STATION 8 MONTH 9 DAY 15 HOUR 12.1 JULIAN DAY 258 LATITUDE 41.520N LONGITUDE 82.410W																			
0	20.42	0.00	.088	22.	20.4		46.	8.9	10.7	1.0	90.	1.0	287.	8.30	.052	8.56	97.		
12	20.90	0.00	.026	22.	20.2		46.	9.0	10.7	.9	90.	1.0	287.	8.32	.072	8.63	96.		
13.78														6.90	-.001				
STATION 9 MONTH 9 DAY 15 HOUR 13.5 JULIAN DAY 258 LATITUDE 41.540N LONGITUDE 82.210W																			
0	20.54	0.00	.016	21.	18.6		48.	8.2	11.7	1.0	93.	3.1	298.	8.51	.060	8.50	97.		
8	20.56	0.00	0.000	22.	20.1		51.	8.7	11.6	1.0	93.	2.1	296.	8.52	.076	8.66	99.		
13	20.69	.40	.062	22.	20.8		53.	8.6	11.3	1.0	94.	2.6	296.	8.52	.072	8.59	98.		
10.58														8.90	-.001				
STATION 10 MONTH 9 DAY 15 HOUR 15.0 JULIAN DAY 258 LATITUDE 41.570N LONGITUDE 82.050W																			
0	20.60	0.00	.016	21.	24.0		51.	8.4	11.5	1.0	92.	1.6	299.	8.42	.070	8.56	98.		
5	20.47	0.00	.036	22.	23.3		47.	8.9	11.3	1.3	92.	2.6	298.	8.50	.080	8.70	99.		
13	20.48	0.00	.026	24.	24.3		46.	8.8	11.3	1.3	94.	2.6	298.	8.52	.083	8.68	99.		
16.18														6.90	-.001				
STATION 11 MONTH 9 DAY 16 HOUR 8.7 JULIAN DAY 259 LATITUDE 41.610N LONGITUDE 81.820W																			
0	20.10	0.00	.052	23.	24.6		48.	9.2	11.4	1.4	92.	1.0	302.	8.35	0.000	9.09	103.		
10	20.05	0.00	.062	23.	24.6		48.	9.0	11.3	1.4	95.	1.0	304.	8.38	.015	9.64	102.		
16	20.31	0.00	.036	24.	24.2		48.	8.4	11.5	1.3	95.	1.6	302.	8.40	.020	8.94	101.		
18.48														7.00	-.120				
STATION 13 MONTH 9 DAY 16 HOUR 10.4 JULIAN DAY 259 LATITUDE 41.640N LONGITUDE 81.420W																			
0	20.07	0.00	.062	24.	24.9		49.	8.6	11.8	1.5	92.	0.0	313.	8.20	.065	8.73	99.		
9	19.91	0.00	0.000	23.	26.3		58.	8.9	11.9	1.4	94.	1.0	313.	8.27	.010	8.66	98.		
14	19.90	0.00	0.000	23.	24.9		50.	9.4	11.8	1.4	94.	.5	313.	8.32	.015	8.71	98.		
15.08														7.65	.008				
STATION 14 MONTH 9 DAY 16 HOUR 11.8 JULIAN DAY 259 LATITUDE 41.700N LONGITUDE 81.450W																			
0	20.43	0.00	0.000	26.	26.6		50.	8.5	13.2	1.6	93.	2.1	321.	8.45	.038	8.67	99.		
10	20.37	0.00	0.000	26.	26.4		49.	8.4	13.1	1.5	94.	2.6	322.	8.51	.041	8.78	100.		
12.08														7.65	.008				
STATION 15 MONTH 9 DAY 14 HOUR 13.1 JULIAN DAY 259 LATITUDE 41.780N LONGITUDE 81.220W																			
0	19.62	0.00	0.000	21.	25.1		49.	9.3	11.7	1.3	90.	1.6	313.	8.32	.048	8.67	97.		
10	19.49	0.00	0.000	24.	24.6		48.	9.2	11.5	1.4	96.	1.0	311.	8.35	.051	8.72	97.		
19	19.41	0.00	0.000	23.	24.6		48.	8.9	11.5	1.4	96.	2.1	311.	8.40	.060	8.66	97.		
21.08														7.32	.060				

LYMNOLOGICAL DATA
LAKE ERIE

CRUISE 6504

SAMPLE DEPTH	WATER TEMP	NO3 P/L	PO4 P/L	SD4 P/L	CL P/L	SI02 P/L	CA P/L	MG P/L	NA P/L	K P/L	T.ALK P/L	P.ALK P/L	SPEC. COND. MICRO-MOS	PH	FM VOLTS	DU MG/L	DO PCT SAT.	TOT. SUSP MATF	TOTAL COLI 100ML
STATION 16 MONTH 9 DAY 16 HOUR 14.1 JULIAN DAY 259 LATITUDE 41.870N LONGITUDE 81.560W																			
0.	17.34	0.00	0.000	24.	24.2		48.	9.2	11.2	1.4	93.	.5	304.	8.28	-105	8.61	96.		
10.	19.51	0.00	0.000	22.	25.1		48.	8.9	11.3	1.4	93.	.5	305.	8.32	-100	8.69	97.		
15.	19.37	0.00	0.000	20.	24.4		47.	8.9	11.5	1.4	94.	1.0	304.	8.20	-098	8.57	96.		
21.	19.36	0.00	0.000	23.	24.2		48.	7.0	11.1	1.4	96.	1.6	304.	8.28	-098	8.58	96.		
23.2P														6.48	-040				
STATION 17 MONTH 9 DAY 16 HOUR 16.0 JULIAN DAY 259 LATITUDE 41.780N LONGITUDE 81.220W																			
0.	20.37	0.00	0.000	27.	35.8		52.	8.8	15.0	1.7	94.	2.6	316.	8.42	-062	8.52	97.		
9.	20.40	.01	0.000	27.	37.6		54.	8.6	16.0	1.7	93.	2.6	361.	8.48	-055	8.53	97.		
17.4B														7.75	-085				
STATION 18 MONTH 9 DAY 16 HOUR 17.5 JULIAN DAY 259 LATITUDE 41.870N LONGITUDE 81.160W																			
0.	19.69	0.00	0.000	22.	25.4		50.	8.7	11.6	1.3	94.	1.8	308.	8.31	-072	8.45	95.		
10.	19.58	0.00	0.000	26.	25.4		50.	8.0	11.5	1.2	94.	.5	309.	8.25	-085	8.49	95.		
18.	19.46	0.00	.104	24.	26.1		49.	8.5	11.4	1.2	94.	.5	305.	8.30	-088	8.54	96.		
18.0P														7.00	-212				
STATION 19 MONTH 9 DAY 17 HOUR 9.0 JULIAN DAY 260 LATITUDE 41.950N LONGITUDE 80.850W																			
0.	19.72	0.00	.062	28.	35.7		56.	8.7	14.9	1.4	93.	1.0	350.	8.28	-080	8.70	98.		
10.	19.57	1.58	.072	28.	35.7		56.	8.6	14.6	1.4	94.	.5	350.	8.28	-070	8.63	97.		
16.	19.60	0.00	.062	26.	35.7		55.	8.3	14.7	1.4	96.	.5	350.	8.30	-068	8.67	97.		
18.1P														7.31	-230				
STATION 20 MONTH 9 DAY 17 HOUR 11.0 JULIAN DAY 260 LATITUDE 42.170N LONGITUDE 80.770W																			
0.	19.18	0.00	.098	25.	25.4		51.	8.7	11.1	1.2	94.	1.0	309.	8.30	-108	8.33	93.		
10.	18.71	0.00	-212	25.	24.9		51.	8.8	11.3	1.3	94.	0.0	307.	8.20	-110	8.51	94.		
20.	18.73	0.00	.042	24.	25.4		52.	8.2	11.2	1.3	95.	1.0	307.	8.35	-109	8.48	94.		
22.3P														7.65	-215				
STATION 21 MONTH 9 DAY 17 HOUR 12.6 JULIAN DAY 260 LATITUDE 41.980N LONGITUDE 80.690W																			
0.	20.38	0.00	.026	26.	32.1		56.	8.5	13.2	1.3	94.	1.0	332.	8.30	-060	8.06	92.		
10.	19.57	0.00	.026	26.	31.3		55.	8.6	13.2	1.3	95.	1.0	332.	8.35	-055	8.28	93.		
15.	19.58	0.00	.016	26.	32.2		55.	8.8	13.2	1.3	95.	1.0	331.	8.35	-050	8.23	92.		
15.4P														6.08	-210				
STATION 22 MONTH 9 DAY 17 HOUR 14.3 JULIAN DAY 260 LATITUDE 42.050N LONGITUDE 80.400W																			
0.	19.86	0.00	.104	24.	27.3		53.	8.7	11.3	1.3	94.	1.0	318.	8.30	-103	7.92	89.		
12.	19.82	0.00	.104	23.	26.0		52.	8.4	11.2	1.3	96.	1.0	308.	8.30	-100	8.00	90.		
13.4B														7.35	-037				
STATION 23 MONTH 9 DAY 17 HOUR 15.6 JULIAN DAY 260 LATITUDE 42.100N LONGITUDE 80.250W																			
0.	21.21	0.00	.098	25.	29.7		55.	9.0	12.9	1.4	94.	2.1	326.	8.42	-060	7.98	91.		
8.	19.44	0.00	.098	26.	30.6		55.	8.5	12.5	1.4	97.	1.6	325.	8.35	-049	7.92	89.		
8.9B														7.65	-195				
STATION 24 MONTH 9 DAY 18 HOUR 8.6 JULIAN DAY 261 LATITUDE 42.180N LONGITUDE 80.020W																			
0.	20.15	0.00	.124	27.	29.4		55.	8.5	12.5	1.3	94.	1.6	321.	8.38	-157	8.54	97.		
12.	19.53	0.00	.114	27.	30.1		55.	8.1	14.0	1.3	94.	0.0	329.	8.10	-160	8.65	97.		
13.4B														6.48	-230				
STATION 25 MONTH 9 DAY 18 HOUR 10.0 JULIAN DAY 261 LATITUDE 42.270N LONGITUDE 79.830W																			
0.	19.66	.10	.098	26.	28.4		58.	8.6	13.5	1.3	94.	1.6	318.	8.35	-070	8.49	93.		
14.	18.93	0.00	.138	25.	29.3		58.	8.5	13.4	1.3	95.	.5	321.	8.25	-060	8.66	96.		
14.2P														7.38	-235				
STATION 26 MONTH 9 DAY 18 HOUR 11.5 JULIAN DAY 261 LATITUDE 42.350N LONGITUDE 79.630W																			
0.	19.31	0.00	.143	25.	27.4		54.	8.4	11.7	1.3	95.	1.0	313.	8.22	-008	8.48	95.		
10.	18.92	0.00	.143	21.	28.1		55.	8.0	11.9	1.3	95.	0.0	315.	8.20	-025	8.60	95.		
16.	15.30	0.00	.150	20.	26.8		53.	8.4	11.2	1.2	95.	0.0	312.	8.02	-040	8.57	88.		
17.5B														7.40	-220				
STATION 27 MONTH 9 DAY 18 HOUR 12.8 JULIAN DAY 261 LATITUDE 42.460N LONGITUDE 79.520W																			
0.	19.50	0.00	.186	21.	26.4		51.	8.4	11.2	1.2	95.	1.0	309.	8.25	-122	8.41	94.		
10.	19.11	0.00	.176	21.	26.4		53.	8.5	11.3	1.2	94.	1.0	311.	8.30	-115	8.58	95.		
17.	14.74	0.00	.186	21.	26.4		53.	8.8	11.3	1.2	96.	0.0	312.	8.05	-125	8.50	96.		
20.4B														7.40	-280				
STATION 28 MONTH 9 DAY 18 HOUR 13.9 JULIAN DAY 261 LATITUDE 42.560N LONGITUDE 79.540W																			
0.	19.63	0.00	.130	22.	24.7		52.	9.1	11.3	1.2	94.	1.6	308.	8.32	-135	8.56	95.		
10.	18.82	0.00	.026	20.	29.2		53.	8.7	11.3	1.2	94.	1.0	311.	8.25	-125	8.50	94.		
20.	14.55	0.00	0.000	21.	29.6		52.	8.3	11.3	1.2	94.	0.0	312.	8.15	-128	8.48	93.		
30.	5.25	0.00	.026	21.	28.3		54.	8.0	10.9	1.2	96.	0.0	311.	7.80	-148	8.71	71.		
40.	5.15	0.00	.036	21.	29.1		54.	8.6	11.0	1.2	97.	0.0	311.	7.90	-158	8.75	71.		
44.6P														7.00	-220				

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6566

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI O2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL MG/L	P-ALK MG/L	SPEC. COND- MICRO- MHOS	PH	CH VCLTS	CO MG/L	DO PCT	TOT. SUSP MATERIAL MG/L	TOTAL COLI IDG/ML
STATION 29 MONTH 9 DAY 18 HOUR 15.5 JULIAN DAY 261 LATITUDE 42.530N LONGITUDE 79.330W																			
0.	19.5P	0.00	.016	23.	28.8		54.	7.8	11.2	1.2	95.	2.1	311.	8.41	.149	8.56	92.		
10.	18.9P	0.00	.010	22.	28.6		54.	8.5	11.1	1.2	95.	1.6	311.	8.32	.150	8.64	96.		
18.	18.4P	0.00	.016	21.	28.8		54.	8.3	11.2	1.2	95.	1.6	312.	8.40	.125	8.62	95.		
19.8P																			
STATION 30 MONTH 9 DAY 19 HOUR 9.2 JULIAN DAY 262 LATITUDE 42.660N LONGITUDE 79.120W																			
0.	19.58	0.00	.016	21.	26.3		54.	10.1	11.2	1.2	95.	1.6	310.	8.35	.150	8.69	98.		
10.	18.82	0.00	.016	21.	27.5		54.	10.0	11.5	1.3	95.	1.6	310.	8.35	.100	8.78	97.		
16.	18.57	0.00	.016	21.	26.5		54.	10.0	11.7	1.4	96.	1.6	310.	8.35	.095	8.74	96.		
18.0E																			
STATION 31 MONTH 9 DAY 19 HOUR 10.6 JULIAN DAY 262 LATITUDE 42.730N LONGITUDE 79.050W																			
0.	20.14	0.00	.026	21.	26.1		54.	10.2	11.4	1.2	95.	1.6	311.	8.35	.166	8.55	97.		
6.	19.53	0.00	.026	21.	26.3		54.	9.3	11.6	1.2	95.	1.6	310.	8.35	.139	8.69	97.		
13.	19.11	0.00	.016	20.	26.5		54.	10.7	11.6	1.2	96.	0.0	312.	8.20	.138	8.61	96.		
15.28																			
STATION 32 MONTH 9 DAY 19 HOUR 11.7 JULIAN DAY 262 LATITUDE 42.840N LONGITUDE 79.920W																			
0.	20.00	0.00	.026	21.	25.0		55.	10.3	11.7	1.2	95.	2.1	311.	8.39	.081	8.61	97.		
10.	19.19	0.00	.104	25.	25.0		53.	10.0	11.2	1.2	96.	1.6	311.	8.38	.088	8.65	96.		
12.28																			
STATION 33 MONTH 9 DAY 19 HOUR 12.6 JULIAN DAY 262 LATITUDE 42.820N LONGITUDE 79.170W																			
0.	23.14	0.00	.078	24.	25.3		54.	10.2	11.2	1.3	96.	2.1	307.	8.40	.179	8.46	96.		
10.	18.97	0.00	.124	24.	25.3		54.	10.4	11.1	1.3	96.	1.0	307.	8.38	.085	8.65	96.		
16.	18.04	0.00	.140	24.	25.3		52.	10.2	11.0	1.3	99.	0.5	307.	8.25	.085	8.61	95.		
17.4P																			
STATION 34 MONTH 9 DAY 19 HOUR 13.7 JULIAN DAY 262 LATITUDE 42.720N LONGITUDE 79.220W																			
0.	20.58	0.00	.098	22.	24.5		54.	9.3	11.2	1.3	95.	1.6	314.	8.37	.081	8.52	97.		
10.	18.95	0.00	.098	24.	29.0		53.	10.5	11.3	1.2	95.	1.6	315.	8.30	.079	8.70	96.		
20.	18.49	0.00	.098	23.	29.0		52.	10.6	11.1	1.3	96.	1.0	314.	8.32	.080	8.65	95.		
21.3P																			
STATION 35 MONTH 9 DAY 19 HOUR 14.7 JULIAN DAY 262 LATITUDE 42.820N LONGITUDE 79.280W																			
0.	20.37	0.00	.130	25.	25.3		54.	10.6	11.2	1.2	95.	1.6	313.	8.35	.091	8.61	98.		
10.	18.79	0.00	.104	25.	25.3		54.	8.3	11.3	1.2	96.	0.5	313.	8.25	.091	8.67	96.		
17.	18.59	0.00	.098	23.	25.0		52.	9.0	10.9	1.2	96.	0.5	313.	8.25	.093	8.64	95.		
18.9P																			
STATION 36 MONTH 9 DAY 20 HOUR 9.5 JULIAN DAY 263 LATITUDE 42.800N LONGITUDE 79.580W																			
0.	19.68	0.00	.114	24.	25.2		58.	9.0	10.0	1.2	95.	1.6	313.	8.35	.085	8.68	98.		
10.	18.64	0.00	.104	23.	25.5		60.	8.3	10.5	1.2	95.	1.6	313.	8.30	.082	8.74	96.		
18.	17.59	0.00	.114	24.	25.5		58.	8.5	11.1	1.2	95.	0.5	313.	8.30	.086	8.57	94.		
20.7E																			
STATION 37 MONTH 9 DAY 20 HOUR 10.8 JULIAN DAY 263 LATITUDE 42.680N LONGITUDE 79.680W																			
0.	19.55	0.00	.104	24.	25.0		58.	8.7	10.9	1.2	95.	1.6	315.	8.38	.073	8.47	97.		
10.	18.64	0.00	.124	21.	25.0		57.	8.2	10.7	1.2	95.	1.6	315.	8.35	.078	8.52	95.		
20.	18.6P	0.00	.036	21.	25.6		57.	8.3	10.9	1.3	95.	1.6	315.	8.33	.080	8.61	95.		
30.	6.7E	0.00	.098	20.	25.0		58.	7.4	10.7	1.3	97.	0.0	319.	7.80	.102	8.69	73.		
32.4E																			
STATION 39 MONTH 9 DAY 25 HOUR 13.2 JULIAN DAY 263 LATITUDE 42.620N LONGITUDE 80.200W																			
0.	19.93	0.00	.042	21.	25.3		56.	8.3	10.9	1.3	95.	1.0	315.	8.30	.050	8.36	94.		
10.	18.85	0.00	.052	20.	25.0		56.	8.8	10.8	1.3	95.	1.6	314.	8.30	.052	8.47	94.		
20.	17.81	0.00	.052	20.	25.0		57.	8.1	10.7	1.3	95.	0.5	314.	8.25	.065	8.60	93.		
38.	4.7E	.28	.078	22.	24.8		53.	8.1	10.8	1.2	97.	0.0	316.	7.78	.084	8.95	72.		
39.	4.74	.20	.130	21.	25.0		54.	8.3	10.7	1.2	97.	0.0	316.	7.85	.075	8.96	72.		
41.5P																			
STATION 40 MONTH 9 DAY 20 HOUR 14.5 JULIAN DAY 263 LATITUDE 42.520N LONGITUDE 79.900W																			
0.	20.13	0.00	.036	21.	26.3		52.	8.2	11.0	1.2	95.	2.1	315.	8.40	.018	8.45	96.		
10.	19.02	0.00	.036	22.	25.2		52.	8.6	10.9	1.2	95.	1.6	315.	8.35	.032	8.29	92.		
20.	18.71	0.00	.036	23.	25.0		52.	8.4	11.0	1.2	93.	1.0	315.	8.28	.041	8.35	92.		
30.	5.8P	0.00	.052	22.	24.3		53.	8.5	10.7	1.1	97.	0.0	318.	7.62	.063	8.35	69.		
40.	5.01	0.00	.142	21.	24.1		54.	7.9	10.7	1.2	97.	0.0	318.	7.85	.070	8.45	68.		
57.	4.91	0.00	.398	22.	24.3		53.	8.5	10.9	1.2	97.	0.0	318.	7.96	.074	8.79	69.		
61.4E																			
STATION 41 MONTH 9 DAY 20 HOUR 16.0 JULIAN DAY 263 LATITUDE 42.430N LONGITUDE 79.960W																			
0.	20.55	0.00	.062	22.	25.3		51.	7.5	10.7	1.2	95.	1.6	313.	8.38	.106	8.30	95.		
10.	18.59	0.00	.036	22.	25.0		52.	9.1	11.0	1.2	95.	1.0	314.	8.32	.095	8.40	93.		
20.	18.37	0.00	.036	21.	26.0		52.	8.0	10.8	1.3	95.	1.6	314.	8.30	.095	8.46	92.		
30.	5.24	0.00	.098	21.	24.5		53.	8.2	10.8	1.2	98.	0.0	320.	7.70	.109	8.74	71.		
40.	5.13	0.00	.130	20.	24.3		53.	7.7	10.6	1.2	100.	0.0	320.	8.00	.111	8.78	71.		
45.5P																			

LIMNOLOGICAL DATA
LAKE EPIE

CRUISE 6506

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	TALK CA03 MG/L	PALK CA03 MG/L	SPEC. COND. MICRO-KMPS	PH	EM VOLTS	OC %/L	DO PCT. SAT.	TOTAL SOLI MATR MG/L	TOTAL SOLI
M	C	N	P																
STATION 42	MONTH 9	DAY 20	HOOR 16.9	JULIAN DAY 263	LATITUDE 42.370N	LONGITUDE 79.920W													
0.	20.20	0.00	.052	19.	24.9		50.	8.1	10.7	1.1	96.	2.1	317.	8.41	.022	8.20	93.		
10.	18.94	0.00	.042	20.	25.3		49.	7.9	10.3	1.1	95.	2.6	316.	8.42	.022	8.37	93.		
20.	18.14	0.00	.072	16.	24.6		48.	7.5	9.9	1.1	95.	1.6	316.	8.31	.031	8.35	91.		
35.	5.85	0.00	.104	18.	27.8		50.	7.3	9.6	1.1	95.	1.0	316.	7.70	.051	8.65	77.		
SR.44														7.60	.049				
STATION 43	MONTH 9	DAY 21	HOOR 10.1	JULIAN DAY 264	LATITUDE 42.160N	LONGITUDE 80.335W													
0.	19.53	0.00	.042	19.	24.2		52.	7.9	10.9	1.3	94.	1.6	317.	8.35	.025	8.87	100.		
10.	19.12	0.00	.042	20.	24.9		52.	8.3	10.9	1.3	95.	1.6	317.	8.35	.035	9.02	100.		
20.	18.57	0.00	.062	20.	25.9		53.	9.4	10.9	1.3	97.	0.0	321.	8.05	.050	9.36	94.		
27.ER														7.50	-.015				
STATION 44	MONTH 9	DAY 21	HOOR 11.2	JULIAN DAY 264	LATITUDE 42.250N	LONGITUDE 80.330W													
0.	19.57	0.00	.036	23.	25.6		51.	8.9	10.8	1.1	95.	2.1	316.	8.30	.043	8.75	98.		
10.	18.74	.50	.036	21.	24.8		52.	9.3	10.9	1.1	95.	1.6	318.	8.30	.058	8.85	98.		
17.	17.69	0.30	.076	23.	26.9		52.	8.8	11.0	1.1	95.	.5	319.	8.25	.065	8.85	96.		
19.ER														7.50	-.010				
STATION 45	MONTH 9	DAY 21	HOOR 12.5	JULIAN DAY 264	LATITUDE 42.330N	LONGITUDE 80.460W													
0.	20.40	0.00	.052	20.	24.6		51.	8.6	11.0	1.1	95.	2.1	316.	8.42	.083	8.60	98.		
8.	20.03	0.00	.076	21.	24.6		50.	9.2	10.9	1.1	95.	2.6	315.	8.45	.075	8.71	99.		
17.	17.86	.30	.050	23.	23.8		51.	8.2	10.9	1.1	96.	1.0	318.	8.30	.085	8.69	94.		
15.7B														7.75	.080				
STATION 46	MONTH 9	DAY 21	HOOR 13.9	JULIAN DAY 264	LATITUDE 42.470N	LONGITUDE 80.460W													
0.	19.63	.27	.026	21.	24.2		50.	8.7	11.0	1.1	95.	2.1	316.	8.45	.110	8.70	95.		
10.	19.30	0.00	.036	21.	23.9		50.	8.3	11.1	1.2	95.	1.6	316.	8.32	.127	8.75	96.		
16.	17.25	0.00	.042	20.	24.0		50.	9.3	10.9	1.2	97.	0.0	321.	8.20	.135	8.57	92.		
18.4B														7.76	-.047				
STATION 47	MONTH 9	DAY 21	HOOR 15.7	JULIAN DAY 264	LATITUDE 42.520N	LONGITUDE 80.680W													
0.	20.17	.05	.026	20.	23.8		50.	9.2	10.9	1.2	95.	2.6	308.	8.51	.095	8.73	95.		
10.	18.31	.02	.016	20.	24.0		51.	9.0	10.9	1.2	96.	.5	309.	8.25	.060	8.72	91.		
15.	17.90	.25	.036	20.	24.6		51.	9.1	11.0	1.2	99.	0.0	322.	8.15	.115	8.61	94.		
18.0B														7.76	-.090				
STATION 48	MONTH 9	DAY 22	HOOR 6.9	JULIAN DAY 265	LATITUDE 42.521N	LONGITUDE 80.430W													
0.	19.84	.05	.008	20.	24.0		49.	7.7	10.4	1.2	92.	2.1	290.	8.45	.105	8.42	94.		
10.	19.08	.25	.016	20.	24.0		48.	8.8	10.5	1.2	95.	2.6	298.	8.45	.112	8.86	100.		
16.	17.93	0.00	.104	20.	24.0		50.	8.4	10.4	1.2	95.	0.0	302.	8.88	.125	8.94	97.		
18.3B														7.88	.190				
STATION 49	MONTH 9	DAY 22	HOOR 10.9	JULIAN DAY 265	LATITUDE 42.350N	LONGITUDE 80.850W													
0.	20.21	0.00	.042	20.	24.5		50.	7.7	10.6	1.2	95.	2.6	299.	8.51	.085	8.56	97.		
10.	18.52	0.00	.062	20.	24.8		51.	8.9	10.6	1.2	95.	0.0	307.	8.20	.103	8.79	97.		
19.	17.01	0.00	.072	21.	25.0		50.	9.1	10.5	1.2	97.	0.0	307.	8.12	.111	8.54	93.		
21.0B														7.60	-.100				
STATION 50	MONTH 9	DAY 22	HOOR 12.6	JULIAN DAY 265	LATITUDE 42.310N	LONGITUDE 81.040W													
0.	20.40	0.00	.034	21.	25.0		49.	8.5	10.6	1.3	93.	3.1	300.	8.00	.065	8.44	97.		
10.	19.83	0.00	.042	21.	25.0		50.	8.3	10.7	1.1	94.	2.1	306.	8.40	.080	8.72	94.		
20.	17.88	.16	.531	21.	24.2		50.	8.5	11.0	1.2	94.	0.0	304.	8.13	.100	8.74	95.		
21.6B														7.40	-.115				
STATION 51	MONTH 9	DAY 22	HOOR 14.2	JULIAN DAY 265	LATITUDE 42.250N	LONGITUDE 81.320W													
0.	20.47	0.00	.336	20.	25.0		49.	9.0	11.1	1.2	94.	2.1	302.	8.41	.031	8.50	97.		
10.	20.12	0.00	.310	21.	24.5		48.	8.7	11.1	1.2	95.	2.1	301.	8.40	.073	8.71	99.		
20.	18.19	0.00	.378	19.	25.1		49.	8.2	11.3	1.2	96.	1.0	307.	8.05	.085	8.54	93.		
22.6B														7.05	-.180				
STATION 52	MONTH 9	DAY 22	HOOR 15.6	JULIAN DAY 265	LATITUDE 42.350N	LONGITUDE 81.370W													
0.	20.30	.43	.316	21.	25.5		49.	8.0	11.3	1.2	94.	2.1	303.	8.39	.020	8.48	96.		
10.	19.65	.74	.336	21.	24.2		50.	9.0	11.3	1.2	93.	1.0	302.	8.31	.095	8.56	94.		
20.	18.40	0.00	.336	21.	24.9		51.	8.6	11.3	1.1	94.	0.0	304.	8.37	.103	8.44	93.		
22.0B														7.25	-.190				
STATION 53	MONTH 9	DAY 22	HOOR 17.7	JULIAN DAY 265	LATITUDE 42.380N	LONGITUDE 81.610W													
0.	20.39	0.00	.336	20.	24.8		49.	8.3	11.3	1.1	93.	2.1	299.	8.45	.110	8.24	94.		
10.	20.20	.35	.316	21.	23.8		50.	7.9	11.4	1.1	92.	2.1	300.	8.40	.111	8.27	94.		
18.	18.18	.10	.362	22.	24.8		50.	8.4	11.4	1.2	94.	0.0	300.	8.20	.113	8.19	90.		
20.6B														7.35	-.170				

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6507

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SD4 MG/L	CL MG/L	SIO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL CALK MG/L	P.ALK MG/L	SPEC. COND. MICRO-MHOS	PH	CH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP. MAT. MG/L	TOTAL COLI 100ML
STATION 2 MONTH 10 DAY 2 HOUR 10.4 JULIAN DAY 275 LATITUDE 41.900N LONGITUDE 81.308W																			
0.	15.85	0.00	.336	20.	11.7		49.	8.3	11.3	1.1	79.	0.0	230.	7.46	.042	9.22	96.		
7.	15.85	0.00			12.5						79.	0.0	230.	7.55	.055	9.25	96.		
9.4A																			
STATION 6 MONTH 10 DAY 3 HOUR 13.4 JULIAN DAY 275 LATITUDE 41.688N LONGITUDE 82.588W																			
0.	17.32	.32	.336	20.	20.6		49.	8.3	11.3	1.1	84.	0.0	268.	8.04	.101	9.36	100.		
5.	17.37	0.00			20.6						83.	0.0	267.	8.09	.100	9.45	100.		
10.	17.33	0.00			20.4						84.	0.0	266.	8.06	.100	9.35	99.		
11.9A																			
STATION 7 MONTH 10 DAY 2 HOUR 12.1 JULIAN DAY 275 LATITUDE 41.530N LONGITUDE 82.590W																			
0.	18.15	.05	.336	20.	21.6		49.	8.3	11.3	1.1	87.	0.0	286.	7.98	.142	9.20	100.		
5.	17.95	.40			21.5						88.	0.0	287.	8.00	.129	9.52	104.		
11.	17.72	0.00			22.2						87.	0.0	287.	8.20	.125	9.33	101.		
17.1A																			
STATION 13 MONTH 9 DAY 30 HOUR 17.4 JULIAN DAY 273 LATITUDE 41.640N LONGITUDE 81.620W																			
0.	19.13	.55	.336	20.	26.7		49.	8.3	11.3	1.1	92.	0.0	317.	8.10	.161	8.58	100.		
8.	19.02	.17			27.2						92.	0.0	316.	8.10	.150	9.19	102.		
14.	19.02	0.00			26.9						95.	0.0	316.	8.14	.142	9.25	103.		
16.1B																			
STATION 15 MONTH 9 DAY 30 HOUR 15.7 JULIAN DAY 273 LATITUDE 41.700N LONGITUDE 81.520W																			
0.	19.14	0.06	.336	20.	26.5		49.	8.3	11.3	1.1	91.	0.0	309.	8.05	.136	8.33	98.		
10.	19.01	0.00			26.3						92.	0.0	309.	8.08	.140	9.04	100.		
17.	19.03	0.00			25.8						92.	0.0	312.	8.30	.140	9.07	100.		
21.0A																			
STATION 16 MONTH 9 DAY 30 HOUR 14.4 JULIAN DAY 273 LATITUDE 41.878N LONGITUDE 81.588W																			
0.	18.81	0.00	.336	20.	25.7		49.	8.3	11.3	1.1	93.	0.0	305.	7.90	.179	8.74	98.		
10.	18.05	0.00			24.8						93.	0.0	305.	7.95	.160	8.84	96.		
21.	17.60	0.00			24.7						93.	0.0	305.	7.84	.158	8.20	96.		
23.2P																			
STATION 54 MONTH 9 DAY 30 HOUR 6.9 JULIAN DAY 273 LATITUDE 42.240N LONGITUDE 81.610W																			
0.	17.63	.72	.336	20.	24.5		49.	8.3	11.3	1.1	91.	0.0	302.	7.88	.151	8.90	96.		
10.	17.76	.20			24.5						90.	0.0	301.	7.92	.152	8.93	97.		
17.	16.80	0.00			24.3						92.	0.0	304.	7.90	.135	9.14	97.		
19.1A																			
STATION 55 MONTH 9 DAY 30 HOUR 11.3 JULIAN DAY 273 LATITUDE 42.120N LONGITUDE 81.740W																			
0.	18.41	.90	.336	20.	24.5		49.	8.3	11.3	1.1	91.	0.0	301.	7.99	.044	8.77	96.		
10.	18.12	0.00			25.0						90.	0.0	301.	7.94	.060	8.97	98.		
21.	17.75	0.00			24.3						90.	0.0	299.	7.85	.075	6.83	56.		
27.5A																			
STATION 56 MONTH 9 DAY 30 HOUR 12.8 JULIAN DAY 273 LATITUDE 41.990N LONGITUDE 81.668W																			
0.	18.57	.05	.336	20.	24.7		49.	8.3	11.3	1.1	92.	0.0	309.	7.95	.170	8.73	96.		
10.	18.02	0.00			25.3						92.	0.0	306.	7.50	.060	8.79	56.		
22.	18.17	2.00			25.6						92.	0.0	305.	7.85	.074	6.73	95.		
24.4A																			
STATION 60 MONTH 10 DAY 2 HOUR 14.7 JULIAN DAY 275 LATITUDE 41.840N LONGITUDE 82.550W																			
0.	17.39	0.00	.336	20.	20.1		49.	8.3	11.3	1.1	80.	0.0	258.	8.00	.148	9.24	59.		
5.	17.27	.10			20.3						81.	0.0	258.	8.15	.148	9.34	100.		
10.	17.19	0.00			20.1						82.	0.0	259.	8.09	.139	9.42	99.		
12.0B																			
STATION 62 MONTH 10 DAY 7 HOUR 14.9 JULIAN DAY 275 LATITUDE 41.800N LONGITUDE 82.480W																			
0.	17.27	.27	.336	20.	17.6		49.	8.3	11.3	1.1	80.	0.0	251.	8.10	.180	9.21	55.		
2.	17.27	0.00			17.6						83.	0.0	250.	8.00	.164	9.32	100.		
18.5A																			

CRUISE 650A

STATION 1 MONTH 10 DAY 11 HOUR 11.1 JULIAN DAY 284 LATITUDE 42.008N LONGITUDE 83.148W																			
0.	12.52	0.10	.114	17.	17.0		43.	10.1	7.2	.9	81.	0.0	237.	7.54	.222	8.77	85.		
5.	12.22	.10	.094	17.	14.2		43.	10.1	7.2	.9	81.	0.0	236.	7.66	.205	9.74	79.		
7.5A																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 650A

SAMPLE DEPTH	WATER TEMP	PO4	PO4	SO4	CL	SI07	CA	MG	NA	K	TOTAL	P.ALK	SPEC.	PM	FM	DG	NO	Y07	TOTAL	
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	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		N	P								CAO3	CAO3	MICRO-		VELTS		SAT.	WATR	IGMPL	
													MERS							
STATION 2	MONTH 10	DAY 11	HOOR 12.0	JULIAN DAY 284	LATITUDE 41.900N	LONGITUDE 83.080W														
0.	12.86	0.00	0.098	12. 24.8	45.	18.6	12.7	1.3	83.	0.0	294.	7.70	0.89	9.52	93.					
7.	12.69	0.00	0.072	21. 23.7	45.	18.3	12.6	1.2	83.	0.0	294.	7.65	0.83	9.77	95.					
R.F.B														6.72	-0.180					
STATION 3	MONTH 10	DAY 11	HOOR 13.1	JULIAN DAY 284	LATITUDE 41.800N	LONGITUDE 83.130W														
0.	13.43	0.00	0.130	17. 13.9	43.	9.4	8.6	0.9	82.	0.0	242.	7.72	0.135	9.34	92.					
7.	13.16	0.00	0.016	17. 13.3	44.	10.5	7.6	0.9	80.	0.0	242.	7.65	0.132	9.51	94.					
R.F.B														6.78	-0.168					
STATION 4	MONTH 10	DAY 11	HOOR 14.2	JULIAN DAY 284	LATITUDE 41.720N	LONGITUDE 83.160W														
0.	13.50	0.00	0.124	20. 18.9	44.	10.9	9.9	1.1	82.	0.0	266.	7.42	0.114	9.44	94.					
6.	13.32	0.00	0.104	19. 18.2	43.	10.9	9.9	1.1	81.	0.0	265.	7.74	0.121	9.47	93.					
7.4.B														6.89	-0.174					
STATION 5	MONTH 10	DAY 11	HOOR 16.4	JULIAN DAY 284	LATITUDE 41.640N	LONGITUDE 82.950W														
0.	13.32	0.00	0.052	19. 14.8	44.	10.2	10.1	1.1	84.	0.0	275.	7.85	0.162	9.33	92.					
6.	13.22	0.00	0.000	19. 18.9	44.	9.6	10.2	1.0	84.	0.0	276.	7.73	0.158	9.43	95.					
7.9.B														6.68	-0.179					
STATION 6	MONTH 10	DAY 12	HOOR 9.1	JULIAN DAY 285	LATITUDE 41.680N	LONGITUDE 82.580W														
0.	13.49	0.00	0.000	20. 20.0	45.	10.6	10.3	1.2	85.	0.0	279.	8.21	0.199	9.84	96.					
9.	13.35	0.00	0.000	20. 20.1	45.	9.5	10.3	1.1	85.	0.0	277.	8.21	0.220	9.81	97.					
11.9.B														6.97	-0.166					
STATION 7	MONTH 10	DAY 13	HOOR 8.9	JULIAN DAY 286	LATITUDE 41.530N	LONGITUDE 82.590W														
0.	14.16	0.00	0.000	22. 25.0	48.	11.1	11.2	1.3	92.	0.0	307.	8.10	0.075	9.55	100.					
5.	14.32	0.00	0.000	22. 22.3	50.	11.6	11.2	1.3	92.	0.0	305.	8.12	0.079	9.84	99.					
10.	14.15	0.00	0.000	25. 23.2	49.	8.9	11.0	1.3	93.	0.0	305.	8.04	0.082	9.89	99.					
13.4.9														7.12	-0.162					
STATION 8	MONTH 10	DAY 13	HOOR 10.3	JULIAN DAY 286	LATITUDE 41.520N	LONGITUDE 82.410W														
0.	14.44	0.00	0.000	22. 24.2	47.	9.8	10.7	1.3	91.	1.0	293.	8.22	0.175	9.31	94.					
12.	14.24	0.00	0.000	20. 22.9	46.	7.3	10.6	1.2	92.	0.0	291.	8.15	0.171	9.41	95.					
14.3.B														6.29	-0.161					
STATION 9	MONTH 10	DAY 13	HOOR 11.6	JULIAN DAY 286	LATITUDE 41.540N	LONGITUDE 82.210W														
0.	14.09	0.00	0.026	19. 21.7	45.	8.8	10.3	1.1	86.	0.0	281.	8.10	0.176	9.97	100.					
8.	13.94	0.37	0.000	19. 22.2	44.	8.6	10.3	1.1	87.	0.0	277.	8.12	0.159	9.98	100.					
13.	13.72	0.28	0.000	18. 22.2	44.	8.4	10.4	1.1	86.	0.0	273.	8.10	0.157	9.91	99.					
16.1.9														6.81	-0.123					
STATION 10	MONTH 10	DAY 13	HOOR 13.1	JULIAN DAY 286	LATITUDE 41.570N	LONGITUDE 82.050W														
0.	14.28	0.00	0.000	17. 22.4	47.	8.4	10.0	1.0	86.	0.0	276.	8.10	0.173	9.52	100.					
10.	14.26	0.00	0.042	19. 22.3	48.	8.3	10.1	1.0	87.	0.0	273.	8.00	0.162	9.80	99.					
15.	14.00	0.00	0.036	17. 22.3	48.	8.0	10.1	1.0	87.	0.0	272.	7.92	0.160	9.68	97.					
16.8.B														6.88	-0.164					
STATION 11	MONTH 10	DAY 13	HOOR 14.6	JULIAN DAY 286	LATITUDE 41.610N	LONGITUDE 81.820W														
0.	14.74	0.00	0.026	20. 23.7	51.	8.8	10.8	1.3	92.	0.0	299.	8.25	0.175	9.67	99.					
10.	14.71	0.00	0.026	20. 24.2	53.	8.9	10.7	1.3	93.	0.0	298.	8.15	0.078	9.61	100.					
16.	14.50	0.00	0.062	21. 24.9	53.	8.8	10.7	1.3	92.	0.0	299.	8.15	0.083	9.63	98.					
18.4.9														6.90	-0.168					
STATION 12	MONTH 10	DAY 13	HOOR 15.4	JULIAN DAY 286	LATITUDE 41.540N	LONGITUDE 81.790W														
0.	14.56	0.00	0.042	21. 25.5	54.	8.9	11.2	1.3	92.	0.0	310.	8.05	0.061	9.59	97.					
9.	14.57	0.00	0.062	21. 25.1	55.	8.7	11.2	1.4	93.	0.0	311.	7.99	0.068	9.78	99.					
14.	14.34	0.00	0.088	22. 26.0	54.	8.2	11.5	1.5	93.	0.0	312.	7.96	0.076	9.66	98.					
16.0.B														7.42	-0.119					
STATION 13	MONTH 10	DAY 14	HOOR 8.7	JULIAN DAY 287	LATITUDE 41.640N	LONGITUDE 81.620W														
0.	14.57	0.00	0.052	20. 25.6	53.	8.0	11.6	1.3	92.	0.0	313.	8.10	0.023	9.51	96.					
8.	14.61	0.00	0.042	21. 27.1	53.	8.1	11.7	1.3	92.	0.0	313.	8.08	0.035	9.36	95.					
14.	14.46	0.23	0.036	22. 27.1	51.	8.1	11.7	1.3	92.	0.0	312.	7.48	0.048	9.26	95.					
16.2.B														7.05	-0.187					
STATION 14	MONTH 10	DAY 14	HOOR 13.3	JULIAN DAY 287	LATITUDE 41.700N	LONGITUDE 81.450W														
0.	14.88	0.00	0.026	22. 26.4	51.	8.4	11.6	1.4	92.	0.0	313.	8.15	0.128	9.77	100.					
10.	14.07	0.00	0.042	21. 26.2	52.	8.1	11.6	1.4	93.	0.0	315.	8.00	0.136	9.91	99.					
12.8.B														7.25	-0.187					
STATION 15	MONTH 10	DAY 14	HOOR 12.3	JULIAN DAY 287	LATITUDE 41.740N	LONGITUDE 81.520W														
0.	15.17	0.00	0.078	21. 26.6	51.	8.6	11.0	1.3	93.	0.0	307.	8.09	0.125	9.84	100.					
10.	15.15	0.00	0.136	21. 25.0	51.	8.3	11.1	1.3	92.	0.0	307.	7.91	0.125	9.80	101.					
19.	15.00	0.00	0.016	21. 25.4	50.	8.3	11.1	1.3	93.	0.0	307.	7.90	0.125	9.65	99.					
21.1.B														7.85	-0.120					

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 650R

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L	PON MG/L	SD4 MG/L	CL MG/L	SD2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TALK MG/L	PALK MG/L	SPEC. COND. MICRO-MOS	PH	EM VOLTS	DO MG/L	CU SAT.	YDY. SUSP. DATA MG/L	TOTAL COLI CC/ML
STATION 16 MONTH 10 DAY 14 HOUR 11.1 JULIAN DAY 287 LATITUDE 41.870N LONGITUDE 81.580W																			
5.	15.15	0.00	0.110	21.	25.1		52.	9.0	10.9	1.3	94.	0.0	306.	8.10	0.025	9.71	100.		
10.	15.15	0.05	0.010	21.	25.8		51.	8.2	11.0	1.3	92.	0.0	306.	8.00	0.020	9.73	100.		
21.	14.97	0.67	0.098	21.	25.0		51.	8.4	11.0	1.3	93.	0.0	306.	7.90	0.020	9.72	99.		
23.4B																			
STATION 17 MONTH 10 DAY 14 HOUR 14.5 JULIAN DAY 287 LATITUDE 41.760N LONGITUDE 81.280W																			
5.	14.92	0.00	0.000	22.	27.1		53.	7.9	11.2	1.4	96.	0.0	314.	8.20	0.040	9.86	101.		
10.	13.19	0.00	0.000	24.	27.6		54.	8.0	12.6	1.6	93.	0.0	334.	7.90	0.054	9.75	96.		
12.0B																			
STATION 18 MONTH 10 DAY 14 HOUR 16.0 JULIAN DAY 287 LATITUDE 41.870N LONGITUDE 81.100W																			
5.	15.20	0.00	0.010	25.	27.1		51.	8.7	10.9	1.3	93.	0.0	307.	8.15	0.115	9.75	100.		
10.	14.65	0.00	0.042	22.	25.6		51.	7.9	10.9	1.3	93.	0.0	309.	7.95	0.115	9.77	95.		
20.	14.30	0.00	0.052	22.	25.1		52.	8.3	10.8	1.3	93.	0.0	311.	7.90	0.120	9.75	99.		
12.3B																			
STATION 19 MONTH 10 DAY 15 HOUR 7.9 JULIAN DAY 288 LATITUDE 41.950N LONGITUDE 80.850W																			
5.	14.74	0.00	0.036	23.	26.4		52.	8.4	11.1	1.4	92.	0.0	313.	8.00	0.065	9.27	94.		
10.	14.75	0.00	0.008	23.	26.1		52.	8.4	11.2	1.4	91.	0.0	315.	7.80	0.065	9.21	94.		
16.	14.59	0.00	0.016	22.	26.7		51.	8.5	11.3	1.4	92.	0.0	313.	7.90	0.069	9.24	94.		
18.4B																			
STATION 20 MONTH 10 DAY 15 HOUR 9.8 JULIAN DAY 288 LATITUDE 42.170N LONGITUDE 80.770W																			
5.	14.61	0.00	0.026	23.	26.1		53.	8.6	11.1	1.4	93.	0.0	310.	7.98	0.165	9.37	95.		
10.	14.64	0.00	0.016	23.	25.6		53.	7.8	11.1	1.6	94.	0.0	310.	7.92	0.160	9.36	95.		
20.	14.51	0.00	0.026	23.	26.1		53.	8.6	11.1	1.4	94.	0.0	310.	7.85	0.155	9.27	94.		
23.0B																			
STATION 21 MONTH 10 DAY 15 HOUR 11.8 JULIAN DAY 288 LATITUDE 41.980N LONGITUDE 80.680W																			
5.	14.66	0.00	0.000	22.	28.1		52.	8.9	11.7	1.5	91.	0.0	317.	8.00	0.042	9.39	96.		
8.	14.74	0.00	0.000	23.	28.1		53.	8.1	11.9	1.4	92.	0.0	319.	7.95	0.070	9.42	96.		
13.	14.54	0.04	0.000	23.	28.2		53.	8.5	11.9	1.4	92.	0.0	319.	7.95	0.026	9.34	95.		
16.1B																			
STATION 22 MONTH 10 DAY 15 HOUR 13.6 JULIAN DAY 288 LATITUDE 42.050N LONGITUDE 80.450W																			
5.	14.57	0.00	0.000	24.	31.0		54.	8.6	12.8	1.6	92.	0.0	332.	7.95	0.172	9.23	93.		
10.	13.89	0.00	0.000	24.	30.8		53.	8.4	12.8	1.6	91.	0.0	333.	7.80	0.162	9.21	92.		
13.4B																			
STATION 23 MONTH 10 DAY 15 HOUR 14.6 JULIAN DAY 288 LATITUDE 42.100N LONGITUDE 80.250W																			
5.	13.05	0.00	0.010	24.	33.5		54.	8.6	13.1	1.7	91.	0.0	337.	7.50	0.020	9.29	93.		
4.	13.36	0.00	0.000	24.	32.4		53.	8.3	13.1	1.7	91.	0.0	337.	7.82	0.070	9.40	93.		
6.	13.27	0.00	0.000	25.	32.5		53.	8.7	13.0	1.7	91.	0.0	337.	7.70	0.075	9.27	91.		
9.1B																			
STATION 24 MONTH 10 DAY 16 HOUR 8.5 JULIAN DAY 289 LATITUDE 42.180N LONGITUDE 80.020W																			
5.	13.53	0.00	0.000	23.	28.8		53.	8.4	12.5	1.6	94.	0.0	329.	8.15	0.035	9.76	97.		
12.	13.88	0.60	0.000	22.	30.8		54.	8.5	13.3	1.5	93.	0.0	337.	7.95	0.010	9.90	97.		
13.4B																			
STATION 25 MONTH 10 DAY 16 HOUR 10.0 JULIAN DAY 289 LATITUDE 42.270N LONGITUDE 79.830W																			
5.	13.24	0.00	0.000	22.	32.9		53.	8.3	13.2	1.5	94.	0.0	337.	8.18	0.225	10.00	99.		
8.	13.22	0.00	0.000	21.	32.3		53.	8.9	13.2	1.6	94.	0.0	338.	8.10	0.214	11.94	100.		
14.	13.06	0.00	0.000	24.	32.3		53.	7.9	13.0	1.6	94.	0.0	338.	8.10	0.205	11.44	100.		
17.4B																			
STATION 26 MONTH 10 DAY 16 HOUR 11.5 JULIAN DAY 289 LATITUDE 42.350N LONGITUDE 79.630W																			
5.	13.63	0.00	0.000	23.	31.3		54.	8.7	12.5	1.6	94.	0.0	329.	7.95	0.125	9.17	81.		
10.	13.60	0.00	0.000	22.	31.3		54.	8.3	12.7	1.6	94.	0.0	331.	7.80	0.130	9.74	97.		
16.	13.42	0.00	0.010	23.	31.4		55.	8.6	12.6	1.6	93.	0.0	332.	7.85	0.132	9.63	95.		
18.0B																			
STATION 27 MONTH 10 DAY 16 HOUR 12.8 JULIAN DAY 289 LATITUDE 42.460N LONGITUDE 79.520W																			
5.	13.56	0.00	0.000	20.	26.8		53.	7.6	11.2	1.4	95.	0.0	314.	8.00	0.182	9.63	95.		
10.	13.50	0.00	0.000	20.	25.9		53.	8.3	11.4	1.5	95.	0.0	314.	7.95	0.180	9.61	97.		
20.	13.28	0.00	0.000	21.			53.	8.7	11.3	1.5	95.	0.0	314.	7.95	0.172	9.63	97.		
24.7B																			
STATION 28 MONTH 10 DAY 16 HOUR 14.0 JULIAN DAY 289 LATITUDE 42.560N LONGITUDE 79.540W																			
5.	14.46	0.00	0.025	21.	26.3		53.	8.5	11.4	1.5	95.	0.0	316.	8.10	0.102	9.55	101.		
10.	14.39	0.00	0.010	21.	25.9		52.	8.1	11.2	1.5	95.	0.0	318.	8.05	0.120	9.60	101.		
20.	13.91	0.00	0.010	20.	26.5		53.	8.4	11.4	1.5	95.	0.0	317.	8.05	0.125	9.54	94.		
30.	13.64	0.00	0.026	21.	26.3		52.	8.1	11.4	1.6	95.	0.0	314.	8.00	0.125	9.56	99.		
40.	7.21	0.00	0.072	20.	26.1		52.	7.5	11.3	1.6	95.	0.0	316.	7.60	0.137	9.59	82.		
44.2B																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6508

SAMPLE DEPTH	WATER TEMP C	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	STO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TOTAL ALK MG/L	P-ALK MG/L	SPEC. COND. MICRO-MOS	PH	EM VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP. MATR MG/L	TOTAL COLI 100ML
STATION 29 MONTH 10 DAY 16 HOUR 15.6 JULIAN DAY 289 LATITUDE 42.538N LONGITUDE 79.338W																			
0.	13.70	0.60	0.016	21.	28.3		52.	8.8	11.9	1.6	95.	0.0	321.	8.10	0.139	9.50	95.		
10.	13.54	0.32	0.010	21.	28.8		53.	8.6	12.1	1.6	95.	0.0	322.	8.00	0.130	9.56	91.		
18.	13.51	0.30	0.026	22.	29.2		53.	8.5	12.2	1.6	95.	0.0	324.	7.90	0.139	9.57	95.		
20.18																			
STATION 30 MONTH 10 DAY 17 HOUR 8.9 JULIAN DAY 290 LATITUDE 42.600N LONGITUDE 79.180W																			
0.	13.59	0.00	0.010	22.	28.8		54.	8.5	12.6	1.7	93.	0.0	325.	8.00	0.109	10.39	103.		
10.	13.67	0.00	0.026	22.	28.0		53.	7.8	12.1	1.7	94.	0.0	325.	7.98	0.100	10.35	103.		
16.	13.52	0.00	0.026	22.	28.8		52.	8.0	12.0	1.4	94.	0.0	325.	7.85	0.097	10.29	102.		
18.1P																			
STATION 31 MONTH 10 DAY 17 HOUR 10.4 JULIAN DAY 290 LATITUDE 42.738N LONGITUDE 79.050W																			
0.	13.64	0.00	0.000	22.	27.3		52.	7.5	11.7	1.4	94.	0.0	322.	7.96	0.018	9.77	97.		
7.	13.70	0.00	0.000	24.	26.8		52.	8.1	11.8	1.4	94.	0.0	321.	7.50	0.052	9.79	98.		
13.	13.52	0.00	0.000	25.	27.3		52.	7.7	11.8	1.4	94.	0.0	320.	7.00	0.050	9.81	97.		
14.5B																			
STATION 32 MONTH 10 DAY 17 HOUR 11.5 JULIAN DAY 290 LATITUDE 42.840N LONGITUDE 79.920W																			
0.	14.01	0.00	0.000	24.	27.3		52.	8.3	11.4	1.5	94.	0.0	312.	8.05	0.095	9.70	98.		
10.	13.55	0.00	0.000	25.	26.8		52.	8.2	11.4	1.4	95.	0.0	312.	7.06	0.095	9.75	97.		
12.2B																			
STATION 33 MONTH 10 DAY 17 HOUR 12.5 JULIAN DAY 290 LATITUDE 42.820N LONGITUDE 79.070W																			
0.	13.51	0.00	0.000	24.	25.3		52.	8.4	11.4	1.5	95.	0.0	314.	8.05	0.065	10.12	106.		
10.	13.34	0.00	0.000	23.	25.7		51.	9.1	11.4	1.5	95.	0.0	316.	7.90	0.060	9.83	97.		
16.	13.17	0.00	0.000	23.	25.3		51.	8.9	11.5	1.5	95.	0.0	316.	7.87	0.065	9.83	97.		
18.0B																			
STATION 34 MONTH 10 DAY 17 HOUR 13.6 JULIAN DAY 290 LATITUDE 42.720N LONGITUDE 79.220W																			
0.	14.36	0.00	0.000	23.	26.8		52.	7.7	11.4	1.5	95.	0.0	315.	8.00	0.030	9.40	95.		
10.	14.03	0.00	0.026	23.	26.4		52.	7.7	11.4	1.5	95.	0.0	317.	7.85	0.055	9.59	96.		
20.	13.73	0.00	0.000	23.	25.8		51.	7.7	11.5	1.5	95.	0.0	317.	7.85	0.070	9.59	96.		
21.4B																			
STATION 35 MONTH 10 DAY 17 HOUR 14.6 JULIAN DAY 290 LATITUDE 42.820N LONGITUDE 79.280W																			
0.	13.89	0.00	0.000	22.	26.3		51.	8.0	11.3	1.5	95.	0.0	314.	8.05	0.020	9.72	97.		
10.	13.45	0.00	0.000	23.	25.4		52.	7.9	11.3	1.5	95.	0.0	313.	7.95	0.030	9.76	97.		
17.	13.25	0.00	0.000	21.	25.8		52.	8.2	11.3	1.5	95.	0.0	314.	7.88	0.050	9.74	96.		
18.9B																			
STATION 36 MONTH 10 DAY 18 HOUR 9.4 JULIAN DAY 291 LATITUDE 42.800N LONGITUDE 79.580W																			
0.	14.20	0.02	0.009	23.	25.0		52.	8.5	11.3	1.5	94.	0.0	314.	7.96	0.151	9.83	99.		
10.	13.67	0.00	0.052	23.	25.5		51.	8.5	11.3	1.5	95.	0.0	313.	7.96	0.130	9.89	98.		
18.	12.63	0.00	0.026	23.	26.0		51.	8.5	11.3	1.5	95.	0.0	314.	7.88	0.125	9.91	96.		
21.3B																			
STATION 37 MONTH 10 DAY 18 HOUR 10.8 JULIAN DAY 291 LATITUDE 42.680N LONGITUDE 79.680W																			
0.	13.70	0.10	0.000	22.	26.0		52.	8.4	11.3	1.5	94.	0.0	313.	7.90	0.108	9.12	91.		
10.	13.54	0.00	0.016	23.	25.9		51.	8.6	11.2	1.6	94.	0.0	314.	7.90	0.170	9.28	92.		
20.	13.61	0.00	0.042	22.	25.9		56.	9.5	11.1	1.4	95.	0.0	313.	7.86	0.120	9.31	93.		
30.	13.23	0.00	0.026	20.	25.4		56.	11.1	11.0	1.3	95.	0.0	313.	7.80	0.130	9.27	91.		
32.9B																			
STATION 39 MONTH 10 DAY 18 HOUR 13.0 JULIAN DAY 291 LATITUDE 42.620N LONGITUDE 80.000W																			
0.	14.29	0.00	0.026	23.	26.9		55.	10.9	11.1	1.3	94.	0.0	315.	7.96	0.080	9.35	94.		
10.	13.96	0.22	0.016	21.	26.3		56.	10.6	11.1	1.4	94.	0.0	315.	7.89	0.070	9.40	94.		
20.	13.60	0.00	0.036	21.	26.0		55.	10.8	11.1	1.4	94.	0.0	316.	7.81	0.070	9.33	93.		
30.	13.54	0.00	0.052	22.	26.8		55.	11.2	11.1	1.4	95.	0.0	315.	7.82	0.090	9.16	91.		
39.	12.02	0.00	0.010	20.	26.5		57.	10.8	11.1	1.4	95.	0.0	317.	7.60	0.084	9.23	80.		
41.5B																			
STATION 40 MONTH 10 DAY 18 HOUR 14.2 JULIAN DAY 291 LATITUDE 42.520N LONGITUDE 79.980W																			
0.	14.43	0.00	0.052	20.	26.5		57.	10.6	11.1	1.4	98.	3.6	319.	8.00	0.050	9.16	93.		
10.	13.49	0.00	0.026	21.	26.0		57.	10.5	11.2	1.4	94.	0.0	321.	8.20	0.060	9.17	91.		
20.	13.10	0.00	0.050	20.	26.5		57.	10.7	11.0	1.4	96.	0.0	320.	8.10	0.065	9.18	90.		
30.	12.81	0.00	0.026	20.	25.4		57.	10.6	11.0	1.4	96.	0.0	319.	7.90	0.076	9.25	80.		
48.	12.77	0.00	0.000	20.	25.4		58.	10.1	11.1	1.4	95.	0.0	319.	7.85	0.072	9.14	80.		
57.	6.24	0.00	0.000	19.	25.0		60.	10.5	10.9	1.4	99.	0.0	328.	7.44	0.080	9.20	77.		
61.2B																			
STATION 41 MONTH 10 DAY 19 HOUR 15.6 JULIAN DAY 291 LATITUDE 42.430N LONGITUDE 79.980W																			
0.	14.31	0.30	0.000	20.	25.5		58.	10.2	11.1	1.4	98.	2.6	315.	8.48	0.065	9.19	97.		
10.	13.31	0.00	0.000	20.	25.4		58.	10.6	11.1	1.4	98.	0.0	314.	8.20	0.073	9.24	91.		
20.	13.31	0.00	0.010	20.	25.0		59.	10.3	11.1	1.4	95.	0.0	316.	8.03	0.070	9.26	91.		
30.	12.14	0.00	0.000	21.	25.9		59.	10.8	11.1	1.4	98.	0.0	315.	7.95	0.060	9.25	80.		
42.	8.71	0.00	0.059	20.	25.9		59.	10.9	10.9	1.4	98.	0.0	318.	7.70	0.075	9.26	80.		
45.7B																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6508

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L M	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	TOTAL CAC03 MG/L	P.ALM CAC03 MG/L	SPEC. COND. MICRO- PMOS	PH	CH VOLTS	OD MG/L	DO PCY. SAT.	TOT. SUSP MTR	TOTAL COLY 100ML MG/L
STATION 42 MONTH 10 DAY 18 HOUR 16.8 JULIAN DAY 291 LATITUDE 42.370N LONGITUDE 79.420W																			
0.	14.09	0.00	0.000	21.	26.0		59.	9.6	11.2	1.4	96.	0.0	315.	8.00	.024	9.18	92.		
10.	13.05	0.00	0.000	20.	25.7		60.	10.2	11.1	1.5	96.	0.0	317.	7.75	.045	9.30	91.		
20.	12.92	0.00	0.000	22.	25.1		55.	8.5	11.2	1.3	99.	0.0	315.	7.70	.065	9.23	50.		
35.	7.43	0.00	.049	22.			55.	9.2	10.9	1.3	98.	0.0	319.	7.51	.072	9.51	61.		
38.4B 7.40 .030																			
STATION 43 MONTH 10 DAY 19 HOUR 10.2 JULIAN DAY 292 LATITUDE 42.160N LONGITUDE 80.330W																			
0.	15.53	0.00	0.000	25.	25.0		54.	9.4	11.3	1.3	95.	0.0	312.	8.10	.055	9.77	57.		
10.	13.33	0.00	0.000	23.	25.6		54.	9.4	11.0	1.3	95.	0.0	313.	8.00	.042	9.79	97.		
20.	13.11	0.00	0.000	23.	25.8		54.	9.3	11.0	1.3	95.	0.0	313.	7.65	.040	9.79	96.		
22.6B 7.20 .115																			
STATION 44 MONTH 10 DAY 19 HOUR 11.1 JULIAN DAY 292 LATITUDE 42.250N LONGITUDE 80.330W																			
0.	13.29	0.00	0.000	22.	26.7		55.	9.7	11.2	1.3	95.	0.0	312.	8.09	.125	9.61	94.		
10.	12.90	1.45	0.000	22.	25.1		56.	9.3	11.1	1.3	96.	0.0	313.	8.21	.131	9.65	94.		
17.	12.00	0.00	0.000	22.	25.6		55.	9.2	11.1	1.3	96.	0.0	312.	7.90	.142	9.55	93.		
20.1B 6.50 .120																			
STATION 45 MONTH 10 DAY 19 HOUR 12.2 JULIAN DAY 292 LATITUDE 42.330N LONGITUDE 80.400W																			
0.	14.43	0.00	0.000	22.	26.6		56.	9.2	11.1	1.3	95.	0.0	311.	8.14	.183	9.62	97.		
8.	13.83	0.00	0.000	23.	25.2		54.	8.9	11.0	1.3	95.	0.0	311.	7.99	.140	9.66	96.		
13.	13.50	0.00	0.000	22.	25.6		56.	8.5	11.1	1.3	95.	0.0	310.	7.91	.132	9.66	96.		
17.7B 6.50 .120																			
STATION 46 MONTH 10 DAY 19 HOUR 13.9 JULIAN DAY 292 LATITUDE 42.470N LONGITUDE 80.460W																			
0.	12.77	0.00	0.000	21.	26.6		56.	9.2	11.0	1.3	96.	0.0	310.	8.18	.082	9.73	95.		
10.	12.32	0.00	.010	23.	26.1		57.	9.1	11.0	1.4	95.	0.0	311.	7.90	.140	9.79	94.		
16.	12.17	.14	0.000	22.	25.7		57.	8.9	11.1	1.3	96.	0.0	312.	7.90	.155	9.77	94.		
18.4B 7.25 -.118																			
STATION 47 MONTH 10 DAY 19 HOUR 15.3 JULIAN DAY 292 LATITUDE 42.520N LONGITUDE 80.460W																			
0.	14.12	1.23	0.000	21.	26.4		56.	9.3	10.9	1.3	94.	0.0	305.	8.23	.065	9.68	57.		
10.	13.55	0.00	0.000	22.	25.4		56.	8.9	10.9	1.3	94.	0.0	306.	8.05	.100	9.70	96.		
15.	13.38	0.00	0.000	21.	25.6		56.	8.1	11.1	1.4	94.	0.0	306.	8.00	.091	9.56	67.		
17.4B 7.25 -.116																			
STATION 48 MONTH 10 DAY 20 HOUR 7.2 JULIAN DAY 293 LATITUDE 42.520N LONGITUDE 80.530W																			
0.	14.10	0.00	0.000	22.	24.5		56.	9.4	10.9	1.3	96.	5.2	304.	8.40	.070	9.67	99.		
10.	14.26	0.00	0.000	23.	23.7		55.	8.4	10.9	1.3	96.	4.2	304.	8.50	.090	9.67	100.		
16.	14.07	0.00	0.000	22.	25.6		55.	8.5	10.9	1.3	96.	3.6	304.	8.35	.016	9.83	99.		
19.0B 7.25 -.116																			
STATION 49 MONTH 10 DAY 20 HOUR 9.2 JULIAN DAY 293 LATITUDE 42.350N LONGITUDE 80.550W																			
0.	14.68	0.00	.010	21.	27.0		51.	8.9	11.4	1.3	97.	2.6	313.	8.50	.005	9.66	96.		
10.	14.55	.70	.010	21.	27.0		52.	8.5	11.3	1.3	96.	2.1	312.	8.35	.049	9.54	97.		
19.	14.42	0.00	.078	22.	27.6		51.	8.7	11.3	1.3	96.	0.0	313.	8.15	.050	9.41	95.		
21.0B 7.46 -.093																			
STATION 50 MONTH 10 DAY 20 HOUR 10.9 JULIAN DAY 293 LATITUDE 42.310N LONGITUDE 81.000W																			
0.	14.75	0.00	.036	20.	22.4		51.	8.3	11.1	1.3	95.	0.0	306.	8.16	.102	9.53	97.		
10.	14.94	0.00	.098	21.	22.9		51.	8.7	11.2	1.3	92.	0.0	306.	8.08	.115	9.53	98.		
20.	14.75	0.00	0.000	19.	23.7		50.	8.8	11.1	1.3	91.	0.0	306.	7.72	.119	9.51	57.		
21.6B 6.52 -.165																			
STATION 51 MONTH 10 DAY 20 HOUR 12.4 JULIAN DAY 293 LATITUDE 42.250N LONGITUDE 81.320W																			
0.	10.54	0.00	0.000	23.	24.2		51.	8.6	10.9	1.3	92.	0.0	305.	7.85	.055	9.42	94.		
10.	14.88	0.00	0.000	21.	25.6		51.	8.4	11.0	1.3	89.	0.0	306.	7.35	.075	9.42	96.		
20.	14.66	0.00	0.000	19.	26.1		51.	8.6	10.8	1.3	91.	0.0	306.	7.65	.066	9.32	95.		
22.9B 6.41 -.142																			
STATION 52 MONTH 10 DAY 20 HOUR 15.7 JULIAN DAY 293 LATITUDE 42.350N LONGITUDE 81.370W																			
0.	13.99	0.00	0.000	20.	22.9		52.	8.0	11.0	1.4	81.	0.0	308.	7.38	.150	9.47	55.		
10.	14.74	0.00	.016	21.	23.0		53.	8.8	11.1	1.4	78.	0.0	309.	7.15	.143	9.41	56.		
20.	14.53	0.00	.010	19.	23.3		52.	8.8	10.9	1.3	80.	0.0	308.	7.15	.138	9.38	95.		
22.3B 6.05 -.140																			
STATION 54 MONTH 10 DAY 20 HOUR 16.6 JULIAN DAY 293 LATITUDE 42.240N LONGITUDE 81.810W																			
0.	14.54	0.00	0.000	20.	24.7		50.	9.2	10.8	1.3	85.	0.0	301.	7.40	.170	9.38	95.		
10.	14.54	0.00	0.000	20.	25.1		51.	8.6	10.8	1.3	79.	0.0	302.	7.27	.092	9.43	96.		
17.	14.30	0.00	0.000	20.	24.6		51.	8.7	10.9	1.3	80.	0.0	302.	7.32	.100	9.30	92.		
19.2B 6.08 -.132																			
STATION 55 MONTH 10 DAY 21 HOUR 7.8 JULIAN DAY 294 LATITUDE 42.320N LONGITUDE 81.740W																			
0.	15.15	0.00	0.000	20.	24.0		52.	8.8	10.7	1.3	94.	0.0	304.	8.25	.091	9.62	99.		
10.	15.05	0.00	0.000	20.	25.0		52.	7.9	10.7	1.3	94.	0.0	305.	8.16	.081	9.49	97.		
21.	14.79	0.00	0.000	19.	24.6		52.	8.0	10.8	1.3	94.	0.0	306.	8.00	.080	9.40	96.		
23.9B 8.40 -.099																			

LIMNOLOGICAL DATA
LAKE ERIC

CRUISE 6509

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SO4 MG/L	CL MG/L	S102 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	CH VOLTS	DO MG/L	DO PCT. SAT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML
STATION 7 MONTH 10 DAY 27 HOUR 9.5 JULIAN DAY 300 LATITUDE 41.530N LONGITUDE 82.590W																			
0.	12.02	.30	0.000	19.	20.6		43.	6.2	10.2	1.1	89.	0.0	277.	8.05	.184	10.00		94.	
11.	11.88	0.00	0.000	19.	21.0		45.	7.3	9.9	1.1	90.	0.0	277.	8.15	.180	10.10		97.	
13.10														7.95	-.130				
STATION 8 MONTH 10 DAY 27 HOUR 10.7 JULIAN DAY 300 LATITUDE 41.520N LONGITUDE 82.610W																			
0.	12.54	0.00	0.000	21.	21.0		45.	8.0	11.0	1.3	93.	0.0	282.	7.75	0.000	9.78		95.	
12.	12.39	0.00	0.000	20.	22.0		45.	8.0	10.4	1.2	92.	0.0	288.	8.05	.025	9.74		94.	
14.09														7.10	-.120				
STATION 9 MONTH 10 DAY 27 HOUR 12.0 JULIAN DAY 300 LATITUDE 41.540N LONGITUDE 82.210W																			
0.	12.46	0.00	0.000	19.	20.1		45.	7.4	10.5	1.2	89.	0.0	278.	7.85	.095	9.62		91.	
8.	12.47	.10	0.000	19.	21.0		44.	7.5	10.1	1.2	89.	0.0	279.	8.00	.070	9.74		94.	
13.	12.36	0.00	0.000	19.	22.5		43.	7.3	10.5	1.2	90.	0.0	280.	8.20	.080	9.68		94.	
16.10														7.20	-.160				
STATION 10 MONTH 10 DAY 27 HOUR 13.3 JULIAN DAY 300 LATITUDE 41.570N LONGITUDE 82.350W																			
0.	13.18	0.00	0.000	20.	22.2		47.	8.3	10.8	1.2	91.	0.0	283.	8.15	.175	9.57		94.	
6.	12.85	0.00	0.000	20.	22.0		46.	8.1	10.6	1.2	90.	0.0	283.	7.50	.175	9.69		95.	
14.	12.72	0.00	0.000	19.	21.0		47.	8.0	10.5	1.3	92.	0.0	283.	8.20	.175	9.49		92.	
16.08														7.00	-.160				
STATION 11 MONTH 10 DAY 27 HOUR 14.9 JULIAN DAY 300 LATITUDE 41.610N LONGITUDE 81.820W																			
0.	13.94	0.00	0.000	22.	23.0		51.	8.7	10.6	1.1	91.	0.0	291.	7.90	.005	9.67		97.	
10.	13.21	0.00	0.000	21.	23.0		51.	8.1	10.9	1.1	91.	0.0	291.	7.90	.015	9.61		95.	
16.	13.06	0.00	.016	20.	22.2		55.	8.2	10.8	1.2	93.	0.0	291.	8.25	.025	9.55		94.	
18.33														7.05	-.185				
STATION 12 MONTH 10 DAY 27 HOUR 15.7 JULIAN DAY 300 LATITUDE 41.540N LONGITUDE 81.790W																			
0.	12.72	0.00	0.000	20.	22.8		59.	8.4	10.6	1.2	91.	0.0	286.	8.05	.060	9.78		95.	
6.	12.83	.55	0.000	20.	22.0		47.	8.7	10.5	1.1	92.	0.0	284.	8.00	.080	9.74		95.	
13.	12.68	.57	0.000	20.	22.0		48.	9.0	10.8	1.1	91.	0.0	284.	8.16	.095	8.43		82.	
15.08														7.40	-.202				
STATION 13 MONTH 10 DAY 29 HOUR 8.4 JULIAN DAY 302 LATITUDE 41.640N LONGITUDE 81.820W																			
0.	11.89	.66	0.000	24.	22.2		50.	8.4	11.8	1.2	92.	0.0	293.	8.05	.090	9.84		94.	
8.	12.00	.63	0.000	24.	21.3		49.	8.4	11.2	1.4	92.	0.0	294.	7.75	.085	9.83		94.	
14.	11.87	.63	0.000	24.	20.9		51.	8.7	11.2	1.4	93.	0.0	294.	8.00	.080	9.71		93.	
15.02														7.40	-.202				
STATION 14 MONTH 10 DAY 29 HOUR 12.4 JULIAN DAY 302 LATITUDE 41.700N LONGITUDE 81.950W																			
0.	11.85	.83	0.000	23.	24.6		51.	8.7	12.2	1.5	95.	0.0	314.	7.50	.045	9.94		94.	
10.	11.48	.66	0.000	24.	25.4		53.	8.4	12.4	1.5	94.	0.0	313.	8.10	.060	9.91		94.	
11.50														7.65	.045				
STATION 15 MONTH 10 DAY 29 HOUR 11.4 JULIAN DAY 302 LATITUDE 41.700N LONGITUDE 81.520W																			
0.	12.55	.74	0.000	22.	24.6		52.	8.9	11.5	1.2	95.	0.0	307.	7.75	.060	10.35		101.	
10.	12.80	.24	0.000	22.	24.6		53.	8.8	11.5	1.2	95.	0.0	308.	8.15	.075	10.50		102.	
19.	12.70	.52	0.000	22.	25.1		52.	8.4	11.4	1.3	96.	0.0	307.	8.20	.080	10.52		102.	
21.30														7.20	-.110				
STATION 16 MONTH 10 DAY 29 HOUR 10.4 JULIAN DAY 302 LATITUDE 41.870N LONGITUDE 81.580W																			
0.	12.94	.70	0.000	22.	23.6		52.	8.3	11.2	1.3	94.	0.0	305.	8.10	.020	10.10		103.	
10.	12.96	0.00	0.000	21.	23.6		52.	8.4	11.2	1.3	94.	0.0	306.	8.20	.035	10.20		104.	
21.	12.79	0.00	0.000	21.	24.1		52.	8.1	11.3	1.9	95.	1.6	304.	8.30	.045	10.20		104.	
22.50														7.00	-.160				
STATION 17 MONTH 10 DAY 25 HOUR 13.7 JULIAN DAY 302 LATITUDE 41.780N LONGITUDE 81.280W																			
0.	11.96	0.00	0.000	23.	24.6		53.	8.9	12.0	1.4	94.	0.0	315.	7.80	.165	10.16		97.	
10.	11.70	0.00	0.000	23.	25.6		40.	8.9	12.2	1.5	92.	0.0	315.	8.00	.165	10.32		98.	
12.25														7.35	-.190				
STATION 18 MONTH 10 DAY 29 HOUR 15.0 JULIAN DAY 302 LATITUDE 41.870N LONGITUDE 81.100W																			
0.	12.04	0.00	0.000	25.	25.1		52.	8.8	11.8	1.4	95.	0.0	313.	8.05	.080	10.00		96.	
10.	12.11	0.00	0.000	25.	26.0		51.	8.9	11.8	1.4	95.	0.0	313.	8.10	.090	10.10		97.	
14.	11.83	0.00	0.000	25.	26.5		52.	8.5	12.2	1.5	96.	0.0	320.	8.20	.095	9.97		95.	
18.38														7.10	-.180				
STATION 19 MONTH 10 DAY 29 HOUR 15.8 JULIAN DAY 302 LATITUDE 41.950N LONGITUDE 80.850W																			
0.	12.20	.20	0.000	24.	24.4		52.	9.2	11.4	1.3	95.	0.0	312.	8.10	.005	10.30		95.	
10.	12.26	.40	0.000	24.	24.1		53.	8.9	11.6	1.3	96.		312.	8.25	.020	10.35		100.	
16.	11.94	.28	0.000	24.	27.5		55.	8.2	11.7	1.3	96.		316.	8.35	.030	10.42		100.	
18.22														7.11	-.210				
STATION 21 MONTH 10 DAY 10 HOUR 9.0 JULIAN DAY 303 LATITUDE 41.980N LONGITUDE 80.850W																			
0.	11.51	.67	0.000	24.	25.0		55.	7.9	11.5	1.3	97.	1.6	318.	8.30	.045	9.95		94.	
8.	11.57	.39	0.000	24.	25.9		56.	8.5	11.5	1.5	96.	0.0	312.	8.15	.055	9.95		94.	
13.	11.48	.50	0.000	24.	26.9		55.	8.1	11.7	1.4	96.	2.6	312.	8.40	.060	9.99		95.	
16.00														7.11	-.210				

LIMNOLOGICAL DATA
LAKE EATC

CRUISE 6519

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	TALK MG/L CACCS	PALK MG/L CACCS	SPEC. COND- MICRO- MMS	PH	CH VOLTS	DD MG/L	DO PCT.	TOT. SUSP MAYR MG/L	TOTAL COLI 100ML
STATION 22	MONTH 10	DAY 30	HOUR 11.1	JULIAN DAY 303		LATITUDE 42.050N		LONGITUDE 80.400W											
0.	10.97	.39	0.000	24.	29.8	57.	8.9	12.9	1.5	97.	1.6	326.	8.35	.115	9.74	91.			
10.	10.85	.20	0.000	24.	29.1	58.	8.5	12.6	1.5	97.	2.1	326.	8.30	.115	9.28	97.			
13.7B																			
STATION 23	MONTH 10	DAY 30	HOUR 12.1	JULIAN DAY 303		LATITUDE 42.100N		LONGITUDE 80.250W											
0.	10.57	.15	0.000	25.	31.3	59.	9.0	13.6	1.8	95.	0.0	335.	8.15	.065	9.59	89.			
6.	10.44	.39	0.000	25.	31.8	59.	9.1	13.3	1.5	95.		334.	8.30	.080	9.66	89.			
9.6B																			
STATION 24	MONTH 11	DAY 2	HOUR 8.2	JULIAN DAY 306		LATITUDE 42.180N		LONGITUDE 80.020W											
0.	10.23	.18	0.000	25.	25.4	59.	9.1	12.0	1.5	97.		322.	8.25	.100	10.14	94.			
11.	10.64	.19	0.000	26.	26.4	58.	8.9	12.2	1.5	96.	1.0	321.	8.35	.090	10.16	94.			
12.	9.26	.39	0.000	26.	29.8	60.	9.0	13.6	1.7	94.		336.	8.25	.101	10.46	94.			
14.																			
13.7B																			
STATION 25	MONTH 11	DAY 2	HOUR 9.5	JULIAN DAY 306		LATITUDE 42.270N		LONGITUDE 79.830W											
0.	10.46	.50	0.000	25.	23.7	60.	8.9	11.2	1.4	98.	0.0	314.	7.90	.055	9.77	90.			
A.	10.46	.56	0.000	25.	23.2	59.	8.8	11.2	1.5	98.	0.0	315.	7.90	.060	9.89	91.			
14.	9.75	.40	0.000	26.	28.6	60.	8.7	13.0	1.6	95.	0.0	333.	8.20	.070	9.66	90.			
17.4B																			
STATION 26	MONTH 11	DAY 2	HOUR 10.9	JULIAN DAY 306		LATITUDE 42.350N		LONGITUDE 79.630W											
0.	9.99	.33	.036	25.	27.6	61.	7.6	12.9	1.5	96.	0.0	330.	7.90	.010	10.31	94.			
10.	10.00	.46	.026	25.	28.6	52.	8.4	12.6	1.4	96.	0.0	332.	7.70	.030	10.40	95.			
16.	9.88	.36	.016	25.	28.6	52.	7.7	12.6	1.4	97.		330.	8.25	.035	10.24	93.			
17.7B																			
STATION 27	MONTH 11	DAY 2	HOUR 12.2	JULIAN DAY 306		LATITUDE 42.460N		LONGITUDE 79.520W											
0.	10.71	.30	.042	22.	22.9	52.	9.1	11.7	1.3	98.	0.0	314.	8.05	.005	9.85	92.			
10.	10.77	.23	.026	23.	23.7	51.	8.7	11.0	1.3	98.	0.0	314.	8.15	.005	9.53	93.			
20.	10.66	.53	.036	23.	23.7	50.	9.1	11.0	1.4	99.	0.0	314.	8.15	.015	9.88	92.			
26.5B																			
STATION 28	MONTH 11	DAY 2	HOUR 13.3	JULIAN DAY 306		LATITUDE 42.560N		LONGITUDE 79.540W											
0.	11.44	.43	.003	22.	22.7	50.	9.0	11.2	1.4	98.	0.0	314.	8.10	.015	10.20	97.			
10.	11.43	0.00	.003	23.	23.7	51.	9.0	11.0	1.3	98.	0.0	315.	8.00	.030	10.41	99.			
20.	11.38	.39	.003	22.	23.7	51.	8.9	11.1	1.3	97.	0.0	316.	8.15	.040	10.38	98.			
30.	11.42	.70	.013	19.	22.7	51.	8.7	11.1	1.4	98.	0.0	315.	8.20	.050	10.27	97.			
42.	11.14	.53	.013	22.	24.2	51.	8.9	11.2	1.4	99.	0.0	317.	8.20	.060	10.27	97.			
45.7B																			
STATION 29	MONTH 11	DAY 2	HOUR 14.8	JULIAN DAY 306		LATITUDE 42.530N		LONGITUDE 79.330W											
0.	11.91	.25	0.000	23.	23.7	51.	8.6	11.0	1.3	97.	0.0	314.	8.00	.025	10.22	96.			
10.	10.96	.43	.003	22.	23.7	51.	8.1	10.9	1.3	97.		314.	8.25	.005	10.33	97.			
14.	10.14	.43	.003	24.	25.6	51.	8.6	11.6	1.4	98.	1.0	318.	8.30	.005	11.15	93.			
20.2B																			
STATION 30	MONTH 11	DAY 5	HOUR 0.4	JULIAN DAY 307		LATITUDE 42.600N		LONGITUDE 79.180W											
0.	10.15	.14	0.000	23.	25.6	51.	7.7	11.5	1.4	97.	0.0	320.	8.10	.060	9.90	91.			
10.	10.16	.43	.013	23.	25.6	51.	8.7	11.5	1.4	98.	0.0	319.	8.15	.055	9.93	91.			
16.	10.02	.53	0.000	23.	24.6	52.	8.9	11.5	1.4	98.		320.	8.25	.055	9.85	90.			
18.4B																			
STATION 31	MONTH 11	DAY 3	HOUR 10.3	JULIAN DAY 307		LATITUDE 42.730N		LONGITUDE 79.050W											
0.	10.11	.65	.023	22.	24.6	51.	9.1	11.2	1.3	96.	0.0	317.	8.10	.160	10.38	95.			
7.	9.99	.75	.013	22.	24.6	52.	8.5	11.2	1.4	98.	0.0	318.	8.10	.150	10.39	95.			
12.	9.90	1.90	.023	22.	24.2	51.	8.7	11.7	1.4	97.	0.0	317.	8.20	.150	10.29	94.			
13.5B																			
STATION 32	MONTH 11	DAY 4	HOUR 11.8	JULIAN DAY 308		LATITUDE 42.840N		LONGITUDE 78.920W											
0.	9.95	.92	.010	22.	24.5	52.	8.9	11.2	1.4	98.	0.0	317.	8.15	.050	10.25	92.			
9.	9.65	.96	0.000	22.	23.5	52.	8.4	11.3	1.3	96.		319.	8.30	.055	10.35	92.			
12.2B																			
STATION 33	MONTH 11	DAY 4	HOUR 12.0	JULIAN DAY 308		LATITUDE 42.820N		LONGITUDE 79.070W											
0.	9.59	1.00	0.000	23.	33.1	54.	8.7	11.5	1.3	99.	0.0	320.	8.15	.020	10.57	96.			
10.	9.51	1.05	.010	21.	33.1	50.	7.2	11.2	1.4	100.	0.0	319.	8.10	.035	10.50	96.			
15.	9.38	.95	.010	22.	33.8	54.	7.5	11.9	1.4	100.		318.	8.30	.045	10.62	96.			
18.0B																			
STATION 34	MONTH 11	DAY 4	HOUR 14.1	JULIAN DAY 308		LATITUDE 42.720N		LONGITUDE 79.220W											
0.	10.13	1.05	0.000	21.	23.5	52.	8.3	11.3	1.3	97.		316.	8.25	.025	10.39	94.			
10.	10.14	0.30	.010	22.	24.5	52.	7.6	11.2	1.3	99.	0.0	317.	8.35	.045	10.43	96.			
19.	10.02	0.00	.026	23.	24.0	51.	8.0	11.3	1.3	100.	2.1	317.	8.30	.050	10.39	95.			
21.3B																			

LIMNOLOGICAL DATA
LAKE EPIE

CRUISE 6509

SAMPLE DEPTH	WATER TEMP	NO3 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SiO2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TALK MG/L	P-TALK MG/L	SPEC. COND.	PH	EM VOLTS	DO MG/L	DO SAT. PCT.	TOT. SUSP MATR MG/L	TOTAL COLI 100ML	
M	C	N	P								CaCO3	CaCO3	MICRO-MHDS							
STATION 35	MONTH 11	DAY 4	HOUR 15.2	JULIAN DAY 308	LATITUDE 42.820N	LONGITUDE 79.280W														
0.	9.79	.36	.010	21.	23.5	51.	7.9	11.1	1.4	99.	0.0	320.	8.26	.020	10.68	97.				
10.	9.81	.30	.026	19.	23.5	51.	8.1	11.0	1.4	99.	0.0	320.	8.10	.040	10.75	98.				
16.	9.57	.36	.010	21.	23.5	52.	7.6	11.0	1.4	98.		318.	8.30	.050	10.70	97.				
19.2B													7.70	-.200						
STATION 36	MONTH 11	DAY 5	HOUR 9.2	JULIAN DAY 309	LATITUDE 42.800N	LONGITUDE 79.580W														
0.	10.11	.50	.016	21.	23.8	51.	7.6	11.3	1.4	99.	0.0	314.	7.90	.062	9.52	91.				
10.	10.09	.64	.026	20.	23.8	52.	7.5	11.1	1.4	98.	0.0	314.	7.90	.055	10.67	92.				
18.	9.91	.20	.010	19.	23.8	52.	8.0	11.0	1.4	98.	0.0	313.	8.11	.053	10.63	92.				
21.2B													7.50	-.130						
STATION 37	MONTH 11	DAY 5	HOUR 19.6	JULIAN DAY 309	LATITUDE 42.680N	LONGITUDE 79.680W														
0.	10.26	.30	.072	20.	23.8	51.	8.1	11.1	1.3	98.	0.0	315.	8.00	.020	9.40	87.				
10.	10.26	.40	.052	21.	23.6	52.	7.7	10.9	1.3	99.	0.0	315.	8.00	.030	9.54	88.				
20.	10.32	.55	.026	20.	23.6	52.	8.7	10.9	1.3	99.	0.0	315.	8.10	.040	9.51	88.				
30.	10.20	.57	.016	21.	24.3	51.	8.3	12.6	1.3	98.	0.0	315.	8.20	.045	9.48	87.				
33.5B													7.05	-.175						
STATION 39	MONTH 11	DAY 6	HOUR 12.4	JULIAN DAY 309	LATITUDE 42.820N	LONGITUDE 80.600W														
0.	11.10	.23	.042	22.	24.3	51.	8.0	11.3	1.4	98.	0.0	320.	7.99	-.020	9.51	90.				
10.	10.80	.90	.052	21.	24.0	51.	8.4	11.1	1.4	98.	0.0	319.	7.87	0.000	9.76	91.				
20.	10.75	0.00	.042	20.	24.8	52.	8.1	11.1	1.4	98.	0.0	319.	8.00	.010	9.64	90.				
30.	10.64	0.00	.114	23.	23.6	50.	7.3	11.3	1.3	100.	0.0	316.	7.99	-.020	9.66	89.				
39.	10.44	0.00	.042	22.	23.9	51.	8.3	11.3	1.4	99.	0.0	315.	8.10	.030	9.49	88.				
41.8B													7.25	-.170						
STATION 40	MONTH 11	DAY 5	HOUR 13.6	JULIAN DAY 309	LATITUDE 42.520N	LONGITUDE 79.940W														
0.	11.60	.75	.052	23.	24.3	51.	8.6	11.4	1.3	98.	0.0	317.	8.01	-.020	9.37	85.				
14.	11.34	.53	.062	23.	24.3	51.	7.7	11.6	1.4	99.	0.0	318.	7.95	0.000	9.63	91.				
24.	11.28	.57	.052	23.	23.8	51.	8.7	11.5	1.4	98.	0.0	318.	8.01	.010	9.63	91.				
34.	11.03	.30	.052	23.	23.8	51.	8.1	11.5	1.3	97.	0.0	317.	8.00	.020	9.47	89.				
44.	10.85	1.24	.052	22.	23.7	51.	8.7	11.4	1.3	99.	0.0	317.	8.10	.020	9.45	88.				
61.	9.90	.50	.042	26.	23.9	52.	8.8	11.4	1.4	101.	0.0	318.	7.91	.036	9.67	86.				
61.2B													7.69	-.160						
STATION 41	MONTH 11	DAY 5	HOUR 15.0	JULIAN DAY 309	LATITUDE 42.430N	LONGITUDE 79.960W														
0.	11.45	.50	0.000	24.	24.8	52.	8.6	11.6	1.3	98.	0.0	319.	8.10	.025	9.69	92.				
10.	11.71	.50	0.000	23.	25.4	51.	8.3	11.7	1.4	98.	0.0	316.	8.15	.018	9.93	93.				
20.	11.05	.91	0.000	24.	25.3	52.	8.7	11.7	1.4	97.	0.0	318.	8.11	.001	9.86	92.				
30.	11.05	.72	0.000	23.	24.8	50.	8.3	11.7	1.4	97.	0.0	318.	8.12	0.000	9.78	92.				
42.	10.94	.60	0.000	23.	25.3	51.	6.7	11.6	1.4	98.	0.0	318.	8.18	0.000	9.72	91.				
45.7B													7.00	-.160						
STATION 42	MONTH 11	DAY 5	HOUR 14.0	JULIAN DAY 309	LATITUDE 42.370N	LONGITUDE 79.920W														
0.	11.33	.48	0.000	22.	25.3	51.	8.1	11.2	1.3	98.	0.0	319.	8.20	-.005	9.62	89.				
10.	11.04	.54	0.000	23.	22.4	51.	8.7	11.3	1.4	99.	0.0	317.	8.15	.012	9.50	88.				
20.	10.91	.50	0.000	22.	23.8	50.	8.8	11.3	1.4	98.	0.0	317.	8.11	.025	9.44	88.				
35.	10.85	.54	0.000	23.	23.8	50.	8.1	11.3	1.4	100.	0.0	318.	8.12	.035	9.46	88.				
37.6B													7.48	-.085						
STATION 43	MONTH 11	DAY 6	HOUR 11.0	JULIAN DAY 310	LATITUDE 42.160N	LONGITUDE 80.330W														
0.	10.73	.45	0.000	23.	23.7	50.	8.6	11.4	1.3	98.	0.0	316.	8.20	.085	9.54	90.				
10.	10.61	.27	0.000	22.	22.9	51.	7.8	11.3	1.3	98.	0.0	314.	8.20	.075	9.67	90.				
20.	10.70	.35	0.000	22.	23.7	51.	8.8	11.3	1.4	98.	0.0	314.	8.20	.075	9.64	90.				
21.6B													7.75	.070						
STATION 44	MONTH 11	DAY 5	HOUR 12.4	JULIAN DAY 310	LATITUDE 42.260N	LONGITUDE 80.330W														
0.	10.51	.57	0.000	21.	24.4	51.	7.2	11.0	1.3	98.		318.	8.25	.010	10.20	93.				
10.	10.42	.32	0.000	20.	23.7	51.	8.9	10.8	1.2	99.		316.	8.25	.035	9.96	92.				
18.	10.49	.52	0.000	20.	23.7	50.	8.5	11.0	1.2	100.	3.1	316.	8.30	.055	9.66	91.				
21.0B													7.60	.170						
STATION 45	MONTH 11	DAY 6	HOUR 13.4	JULIAN DAY 310	LATITUDE 42.330N	LONGITUDE 80.400W														
0.	10.89	.40	0.000	20.	23.7	50.	8.9	11.2	1.3	97.		313.	8.25	.125	9.97	93.				
8.	10.72	.45	0.000	20.	24.2	50.	9.0	11.2	1.3	99.		312.	8.25	.135	9.88	92.				
13.	10.82	.60	0.000	20.	24.5	51.	9.1	11.1	1.3	98.	1.6	312.	8.40	.145	9.72	91.				
14.5B													7.85	.160						
STATION 46	MONTH 11	DAY 6	HOUR 14.8	JULIAN DAY 310	LATITUDE 42.470N	LONGITUDE 80.460W														
0.	10.29	.47	0.000	19.	22.7	49.	8.0	11.0	1.3	97.	0.0	306.	8.20	.125	9.66	89.				
10.	10.27	.35	0.000	20.	22.7	49.	8.7	11.0	1.3	97.		306.	8.25	.140	9.64	89.				
16.	10.19	0.50	0.000	20.	23.2	49.	8.8	11.0	1.3	100.		306.	8.35	.150	9.57	88.				
19.4B													7.50	-.195						

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 6509

SAMPLE DEPTH M	WATER TEMP C	NO3 MG/L N	PO4 MG/L P	SD4 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.	TOT. SUSP MATR MG/L	TOTAL COLI IGCML MG/L
STATION 47 MONTH 11 DAY 6 HOUR 16.4 JULIAN DAY 310 LATITUDE 42.520N LONGITUDE 80.620W																			
0.	10.76	.20 0.000		21.	22.9		48.	9.2	11.1	1.3	96.	1.6	306.	8.35	.065	9.79		91.	
10.	10.59	.20 0.000		17.	22.7		48.	8.8	11.0	1.3	97.	2.6	305.	8.35	.080	9.76		91.	
15.	10.61	.10 0.000		22.	23.2		48.	8.4	10.9	1.3	98.	3.1	305.	8.40	.085	9.74		90.	
17.84 7.15 -1.190																			
STATION 48 MONTH 11 DAY 7 HOUR 8.8 JULIAN DAY 311 LATITUDE 42.520N LONGITUDE 80.930W																			
0.	11.40	.25 0.000		19.	24.6		48.	8.7	10.9	1.3	95.	1.6	305.	8.30	.075	10.01		94.	
10.	11.26	.10 0.000		19.	24.6		48.	9.0	11.2	1.3	95.	2.6	305.	8.35	.082	10.03		94.	
16.	11.36	.29 0.000		19.	24.2		47.	8.2	10.9	1.3	95.	3.1	304.	8.45	.088	10.01		94.	
18.78 7.15 -1.190																			
STATION 49 MONTH 11 DAY 7 HOUR 10.2 JULIAN DAY 311 LATITUDE 42.350N LONGITUDE 80.650W																			
0.	11.50	D.00 0.016		19.	24.2		47.	7.4	11.2	1.3	96.	1.0	308.	8.28	.140	9.82		93.	
10.	11.40	.45 0.000		20.	24.2		49.	8.2	11.1	1.3	97.	1.6	308.	8.31	.141	9.82		93.	
19.	11.54	.39 0.000		20.	24.2		48.	8.3	11.1	1.3	98.	2.6	308.	8.40	.145	9.86		94.	
20.88 7.00 -1.168																			
STATION 54 MONTH 11 DAY 7 HOUR 11.6 JULIAN DAY 311 LATITUDE 42.310N LONGITUDE 81.080W																			
0.	11.50	.10 0.042		23.	25.2		48.	9.1	11.4	1.3	96.		313.	8.21	.110	9.68		92.	
10.	11.44	.50 0.042		22.	26.1		47.	8.7	11.4	1.3	96.	0.0	314.	8.20	.115	9.72		92.	
20.	11.51	.47 0.052		24.	27.6		53.	9.5	12.3	1.4	96.	1.0	325.	8.30	.125	9.72		92.	
21.66 7.35 -1.150																			
STATION 51 MONTH 11 DAY 7 HOUR 13.3 JULIAN DAY 311 LATITUDE 42.250N LONGITUDE 81.320W																			
0.	11.62	.35 0.052		23.	23.7		51.	9.2	11.1	1.3	96.		308.	8.25	.095	9.62		93.	
10.	11.62	.50 0.072		21.	24.2		50.	8.7	11.1	1.2	96.	1.6	307.	8.30	.105	9.76		93.	
20.	11.62	.47 0.067		21.	23.9		51.	8.7	11.0	1.2	97.	2.6	308.	8.35	.110	9.80		93.	
22.68 6.95 -1.165																			
STATION 52 MONTH 11 DAY 7 HOUR 14.3 JULIAN DAY 311 LATITUDE 42.350N LONGITUDE 81.370W																			
0.	11.65	.43 0.078		23.	24.2		52.	8.8	11.3	1.4	95.	2.1	305.	8.31	.080	9.64		92.	
10.	11.55	.53 0.052		23.	24.2		51.	8.0	11.1	1.3	95.	2.1	305.	8.32	.092	9.64		91.	
20.	11.50	.35 0.052		22.	23.7		51.	8.1	11.1	1.3	95.	3.1	304.	8.45	.101	9.60		91.	
21.78 7.05 -1.175																			
STATION 53 MONTH 11 DAY 7 HOUR 16.1 JULIAN DAY 311 LATITUDE 42.360N LONGITUDE 81.610W																			
0.	11.61	.32 0.024		23.	24.2		51.	8.8	11.2	1.3	95.		309.	8.21	.070	9.70		92.	
10.	11.56	.43 0.042		21.	24.2		51.	9.5	11.0	1.3	96.		308.	8.21	.080	9.74		92.	
18.	11.51	.58 0.036		22.	23.8		51.	8.8	11.0	1.3	96.	1.0	305.	8.30	.088	9.72		92.	
20.50 7.10 -1.160																			
STATION 54 MONTH 11 DAY 7 HOUR 17.7 JULIAN DAY 311 LATITUDE 42.240N LONGITUDE 81.810W																			
0.	10.97	.47 0.042		22.	24.0		50.	9.4	11.2	1.3	96.		307.	8.21	.085	9.88		92.	
10.	10.49	.50 0.042		22.	24.4		49.	8.8	11.2	1.3	96.	0.0	307.	8.20	.084	9.97		92.	
17.	10.42	.47 0.042		23.	24.2		51.	9.0	11.1	1.3	96.		308.	8.25	.070	9.92		92.	
18.98 7.10 -1.150																			
STATION 55 MONTH 11 DAY 8 HOUR 8.3 JULIAN DAY 312 LATITUDE 42.120N LONGITUDE 81.740W																			
0.	11.94	.53 0.000		22.	25.1		50.	9.0	10.9	1.3	95.	0.0	307.	8.26	.090	9.60		92.	
10.	11.77	.42 0.000		20.	25.3		51.	8.5	11.1	1.4	95.	0.0	306.	8.26	.095	9.77		93.	
21.	11.89	.36 0.000		21.	25.1		51.	8.6	11.0	1.4	94.	1.0	306.	8.30	.089	9.74		94.	
23.00 6.90 -1.160																			
STATION 56 MONTH 11 DAY 8 HOUR 9.4 JULIAN DAY 312 LATITUDE 41.990N LONGITUDE 81.660W																			
0.	11.85	.53 0.000		22.	24.2		49.	8.6	10.9	1.4	96.	0.0	308.	8.15	.085	9.55		91.	
10.	11.71	.62 0.000		23.	25.2		50.	9.0	10.9	1.4	98.	0.0	307.	8.20	.085	9.50		91.	
22.	11.82	.45 0.000		22.	24.6		50.	9.0	10.9	1.4	98.	2.6	307.	8.40	.090	9.54		91.	
24.40 6.80 -1.175																			
STATION 57 MONTH 11 DAY 8 HOUR 11.7 JULIAN DAY 312 LATITUDE 42.040N LONGITUDE 82.040W																			
0.	11.80	.45 0.000		22.	25.3		49.	8.5	10.9	1.4	95.	2.1	301.	8.35	.045	9.76		93.	
11.	11.74	.77 0.000		23.	25.3		49.	8.4	10.9	1.3	95.	3.1	302.	8.40	.050	9.82		94.	
19.	11.67	.70 0.000		23.	24.9		49.	8.3	10.9	1.3	96.	3.6	301.	8.50	.055	9.80		94.	
22.08 6.91 -1.151																			
STATION 58 MONTH 11 DAY 8 HOUR 13.4 JULIAN DAY 312 LATITUDE 42.070N LONGITUDE 82.300W																			
0.	10.79	.50 0.000		20.	25.1		46.	9.2	10.9	1.3	97.	0.0	292.	8.15	.115	9.75		91.	
10.	10.60	.39 0.036		20.	24.2		46.	9.7	10.9	1.2	92.	0.0	292.	8.20	.115	9.78		91.	
16.	10.73	.36 0.000		21.	24.4		46.	8.8	10.9	1.3	92.	1.6	292.	8.30	.115	9.60		90.	
18.98 7.45 -1.040																			
STATION 59 MONTH 11 DAY 8 HOUR 15.2 JULIAN DAY 312 LATITUDE 43.880N LONGITUDE 82.380W																			
0.	9.82	.44 0.000		16.	20.2		40.	7.7	9.5	1.1	86.	1.6	280.	8.30	.125	9.61		84.	
11.	9.89	.42 0.000		18.	19.4		40.	8.7	9.4	1.1	87.	2.6	280.	8.45	.130	9.73		89.	
14.08 7.20 -1.085																			

LIMNOLOGICAL DATA
LAKE ERIE

CRUISE 8509

SAMPLE DEPTH	WATCA TEMP	403 MG/L	PO4 MG/L	SO4 MG/L	CL MG/L	SI O2 MG/L	CA MG/L	MG MG/L	NA MG/L	K MG/L	TALK MG/L	PALK MG/L	SPEC. COND.	PH	EH VOLYS	DO MG/L	DO PCT.	TOT. SUSP. MATR	TOTAL COLI 160ML MG/L
M	C	N	P										MICRO-MHOS						
STATION 60	MONTH 11	DAY 8	HOUR 16.7	JULIAN DAY 312	LATITUDE 41.840N	LONGITUDE 82.550W													
0.	9.69	.44	0.000	19.	19.7		40.	8.3	9.3	1.1	88.	3.6	260.	8.55	.081	9.76	89.		
10.	9.00	.42	.036	18.	19.7		40.	8.4	9.3	1.1	89.	3.6	260.	8.50	.090	9.01	89.		
12.0B														7.50	.215				
STATION 61	MONTH 11	DAY 8	HOUR 17.8	JULIAN DAY 312	LATITUDE 41.950N	LONGITUDE 82.630W													
0.	9.94	.53	6.194	17.	22.7		40.	7.9	10.1	1.1	87.	4.2	266.	8.65	.105	10.51	96.		
9.	10.06	.53	10.041	17.	21.7		40.	8.4	10.4	1.1	88.	3.6	266.	8.50	.115	10.48	96.		
10.7B														7.20	.200				
STATION 62	MONTH 11	DAY 9	HOUR 8.9	JULIAN DAY 313	LATITUDE 41.850N	LONGITUDE 82.800W													
0.	8.39	.62	.150	16.	20.9		38.	8.2	10.0	1.0	85.	0.0	262.	7.99	.081	10.69	94.		
8.	8.49	.43	.096	16.	20.1		39.	8.1	9.9	1.0	84.	0.0	258.	8.10	.081	9.34	82.		
10.2B														7.10	.170				
STATION 63	MONTH 11	DAY 9	HOUR 10.2	JULIAN DAY 313	LATITUDE 41.970N	LONGITUDE 83.000W													
0.	8.23	.35	.176	15.	15.4		37.	7.2	6.5	1.0	83.	0.0	231.	8.00	.095	10.66	95.		
7.	8.45	.43	.140	15.	13.2		37.	8.3	6.5	.9	85.	0.0	232.	8.18	.101	10.66	94.		
8.4B														7.01	.180				
STATION 64	MONTH 11	DAY 9	HOUR 11.3	JULIAN DAY 313	LATITUDE 42.000N	LONGITUDE 83.140W													
0.	8.25	.68	.192	15.	9.8		36.	8.3	4.5	1.0	84.	0.0	220.	8.09	.081	10.91	96.		
5.	8.33	.55	.104	14.	9.3		36.	8.2	4.5	.9	85.	0.0	220.	8.20	.085	10.79	95.		
8.1B														7.25	.201				

Appendix B. WIND, WAVE, AND SEDIMENT DATA

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6501

STA	WIND		WAVE			BOTTOM SEDIMENT				
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.	BOTTOM DEPTH M	DRY SOLIDS PCT.	VOLA- TILES PCT.	DIL. GREASE PCT. DS	BOD MG/G DAYS RUN
7	359	9.5	20	.6	4.5	13.4				
9	349	5.8	35	.5	4.3	15.5				
10	81	4.2	3	.6	5.0	16.0				
11	358	6.4	36	.3	3.3	10.3				
12	20	9.6	21	.5	4.0	15.8				
13	185	10.0	20	.4	2.5	16.1				
14	45	5.8	5	.5	3.0	11.8				
16	83	5.2	8	.5	3.0	23.5				
17	45	7.8	5	.5	3.2	11.1				
18	68	6.4	6	.4	2.5	17.5				
19	90	4.8	9	.4	2.5	17.5				
20	229	4.2	23	.3	3.0	22.2				
21	231	8.4	23	.3	2.7	16.3				
22	265	9.2	27	.4	2.4	13.2				
23	290	7.6	29	.5	2.9	9.5				
43	32	6.8	3	.8	4.0	23.2				
44	45	10.6	5	.8	4.0	19.2				
45	45	10.6	5	.6	3.8	13.7				
46	60	6.4	6	.5	2.9	17.1				
47	89	9.3	8	.5	3.2	17.4				
48	226	1.4	15	.6	4.5	18.3				
49	240	4.8	24	.3	4.0	21.0				
50	240	1.8	24	.3	3.8	21.3				
51	210	2.0	21	.2	3.5	22.6				
52	200	7.0	20	.2	3.0	21.9				
53	220	7.4	22	.3	3.1	20.7				
54	180	10.4	18	.7	3.0	18.9				
55	180	10.6	18	.5	3.2	23.5				
57	180	12.8	18	.8	3.2	21.6				
59	240	9.0	24	.9	4.5	14.0				
61	360	5.0	36	.4	2.2	10.7				
62	360	9.7	36	.4	2.5	10.4				
63	360	2.8	36	.2	2.0	8.2				
64	245	9.2	24	.3	3.0	6.9				

CRUISE 6502

1	163	4.4	0	0.0	0.1	8.4				
2	143	6.5	0	0.0	0.0	9.1				
3	130	5.6	10	.2	2.4	8.8				
4	75	5.2	8	.4	2.1	7.9				
5	90	4.4	9	.4	2.3	7.9				
6	250	8.2	25	.4	2.6	11.9				
7	250	10.2	25	.5	2.5	13.4				
8	240	6.8	24	.5	3.0	14.0				
9	240	5.3	24	.5	2.5	14.9				
10	250	1.8	25	.5	2.6	15.5				
11	45	12.5	5	1.0	3.9	18.3				
12	45	5.0	5	.5	3.8	15.8				
13	50	12.8	5	.8	3.5	16.1				
14	90	2.4	5	.2	2.5	12.2				
15	90	7.0	9	.2	3.1	21.3				
17	180	7.0	18	.4	2.7	11.6				
18	180	9.8	18	.5	2.5	18.0				
19	200	1.0	0	0.0	0.0	17.7				
20	350	4.2	0	0.0	0.0	22.3				
21	350	3.8	0	.2	2.3	15.8				
22	53	.6	0	0.0	0.0	13.3				
23	360	2.8	0	0.0	0.0	9.4				
24	190	7.6	0	0.0	0.0	13.4				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6502

STA	WIND		WAVE			BOTTOM DEPTH M	BOTTOM SEDIMENT			BOO MG/G DAYS RUN
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.		ORG SOLIDS PCT.	VOLA- TILES PCT.	OIL + GREASE PCT. DS	
25	210	8.0	21	.2	2.2	15.8				
26	230	13.5	23	.4	2.7	17.7				
27	225	14.0	23	1.1	3.5	22.9				
29	225	4.4	23	.6	4.5	19.5				
30	270	6.0	27	.5	3.3	17.4				
31	270	7.6	27	.5	3.5	15.2				
32	225	10.8	23	.5	3.3	12.2				
33	225	13.1	23	.5	3.5	18.0				
34	225	13.2	23	.8	3.5	21.3				
35	225	16.0	23	1.1	4.3	18.6				
36	225	3.2	0	0.0	0.0	20.4				
37	225	5.3	0	0.0	0.0	32.6				
39	225	7.6	0	0.0	0.0	41.8				
40	225	8.8	23	.4	2.2	62.2				
41	292	6.8	20	.5	3.0	45.4				
42	225	3.6	23	.3	3.0	38.7				
43	292	9.8	29	.8	3.2	23.5				
44	292	10.2	29	.8	3.8	19.8				
45	292	12.6	29	.8	3.7	16.3				
46	292	12.4	29	.7	3.0	18.3				
47	225	6.4	23	.3	3.4	17.7				
48	292	11.8	29	.5	3.3	18.6				
49	292	9.2	29	.6	3.5	20.7				
52	338	2.8	34	.3	3.0	21.9				
53	248	5.8	0	0.0	0.0	20.7				
54	315	9.6	32	.5	4.3	18.9				
55	338	8.6	34	.7	3.2	23.5				
56	338	5.2	34	.5	3.5	24.4				
57	270	.6	0	0.0	0.0	21.9				
59	270	2.4	0	0.0	0.0	13.7				
60	320	4.2	32		3.4	12.2				
61	338	11.0	34	.4	2.3	10.9				
62	338	5.2	34	.5	2.3	10.7				
63	338	6.4	0		1.8	8.5				
64	338	3.4	0	0.0	0.0	7.3				

CRUISE 6503

1	240	11.8	24	.7	3.0	8.5				
2	240	12.6	24	.6	3.7	9.8				
3	240	10.2	24	1.0	3.3	9.1				
5	240	11.3	24	.6	3.7	7.9				
6	257	1.8	0	0.0	0.0	12.2				
7	253	3.0	0	0.0	0.0	13.1				
8	264	1.8	0	0.0	0.0	14.0				
9	328	1.6	0	0.0	0.0	15.5				
10	234	1.2	0	0.0	0.0	16.1				
11	8	1.0	0	0.0	0.0	18.0				
12	302	1.8	0	0.0	0.0	15.8				
13	240	7.8	24	.8	3.5	16.1				
14	270	5.4	27	.5	3.7	11.6				
15	240	8.3	24	.8	3.8	20.7				
16	240	8.2	24	.9	4.3	23.2				
17	285	5.0	29	.5	3.5	11.6				
18	225	3.4	22	.3	3.6	17.7				
19	220	7.5	22	.8	4.3	18.0				
21	270	10.0	27	.8	4.2	15.8				
22	270	19.2	27	1.0	4.7	13.2				
24	270	4.4	0	0.0	0.0	13.4				
25	270	5.2	0	0.0	0.0	14.0				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6503

STA	WIND		WAVE			BOTTOM DEPTH M	BOTTOM SEDIMENT			BOD MG/G DAYS FUN
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.		DRY SOLIDS PCT.	VOLA- TILES PCT.	OIL + GREASE PCT. DS	
26	270	4.4	0	0.0	0.0	17.7				
27	270	4.0	27	.2	3.1	21.0				
29	240	5.6	0	0.0	0.0	19.8				
30	240	6.8	0	0.0	0.0	17.4				
31	240	7.6	24	.7	3.4	14.6				
32	240	7.4	24	.7	3.2	12.2				
33	240	7.8	24	.7	2.9	17.7				
34	240	6.4	24	.5	3.0	21.0				
35	240	4.8	24	.5	3.7	18.3				
36	240	.4	0	0.0	0.0	20.1				
37	240	1.8	0	0.0	0.0	32.3				
39	185	3.8	0	0.0	0.0	41.8				
40	185	1.8	0	0.0	0.0	62.0				
41	185	1.6	0	0.0	0.0	45.4				
42	185	2.0	0	0.0	0.0	38.7				
43	90	1.0	0	0.0	0.0	22.3				
44	80	1.0	0	0.0	0.0	19.8				
45	170	1.6	0	0.0	0.0	16.6				
46	270	8.6	27	.4	2.3	18.3				
47	270	7.2	27	.5	3.4	17.7				
48	210	2.2	21	.3	3.3	18.9				
49	210	3.2	0	0.0	0.0	21.0				
50	240	2.4	0	0.0	0.0	21.5				
52	210	2.8	21	.4	2.6	21.9				
53	360	3.4	36	.2	2.7	20.7				
54	360	3.8	36	.5	4.2	18.9				
55	360	3.4	36	.4	4.8	23.9				
56	360	3.6	36	.4	4.8	24.6				
57	270	6.1	27	.3	3.0	21.6				
59	360	9.0	36	.7	3.0	13.9				
60	360	8.6	36	.5	3.2	12.2				
61	45	2.4	0	0.0	0.0	10.8				
62	45	.4	0	0.0	0.0	18.7				
63	45	2.8	0	0.0	0.0	8.5				
64	135	4.0	0	0.0	0.0	6.4				

CRUISE 6504

1	90	4.2	0	0.0	0.0	9.1				
2	90	3.2	9	.2	3.2	9.1				
3	90	2.4	9	.2	3.0	8.8				
4	90	1.9	9	.2	2.7	7.6				
5	90	1.8	0	0.0	0.0	7.6				
6	45	1.4	0	0.0	0.0	11.9				
7	240	3.2	0	0.0	0.0	13.1				
59	135	1.8	0	0.0	0.0	13.9				
60	135	2.2	0	0.0	0.0	12.0				
61	180	1.6	0	0.0	0.0	10.7				
62	158	3.8	16	.3	2.7	10.5				
63	205	5.6	21	.3	2.7	8.5				
64	150	3.0	0	0.0	0.0	7.3				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6565

STA	WIND		WAVE			BOTTOM DEPTH M	BOTTOM SEDIMENT				EDD MG/G DAYS RUN
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.		DRY SOLIDS PCT.	VOLA- TILES PCT.	OIL + GREASE PCT. DS		
1	200	7.2	20	.8	3.6	9.1					
2	200	8.1	20	1.0	4.0	9.1					
3	240	9.8	24	.7	3.2	6.8					
4	240	8.4	24	.5	2.8	7.2					
5	240	6.4	24	.3	3.0	7.4					
6	315	6.4	32	.3	3.7	11.9					
7	315	7.6	32	.3	3.0	11.4					
8	290	4.5	29	.3	3.3	14.6					
9	270	4.6	27	.5	3.7	15.0					
10	270	3.8	27	.5	3.7	16.1					
11	270	1.0	27	1.0	3.9	18.1					
12	270	4.6	27	.8	4.4	15.7					
13	270	2.8	0	0.0	0.0	16.1					
14	225	2.2	0	0.0	0.0	11.9					
15	210	3.0	0	0.0	0.0	21.0					
16	210	2.8	0	0.0	0.0	23.2					
17	300	2.6	30	.2	3.0	11.3					
18	300	2.7	0	0.0	0.0	18.0					
19	158	7.3	16	.4	2.5	18.1					
20	260	5.0	20	.5	3.0	22.3					
21	360	.6	0	0.0	0.0	15.9					
22	360	4.4	0	0.0	0.0	13.4					
23	360	4.0	0	0.0	0.0	9.1					
24	180	6.2	0	0.0	0.0	13.4					
25	180	3.4	0	0.0	0.0	15.7					
26	180	.2	0	0.0	0.0	17.4					
27	135	1.1	0	0.0	0.0	22.1					
28	45	4.6	0	0.0	0.0	44.2					
29	90	4.0	0	0.0	0.0	19.6					
30	200	5.2	20	.6	4.9	18.2					
31	180	9.6	18	.7	5.0	15.2					
32	200	3.6	20	.7	5.0	12.3					
33	260	.6	26	.6	4.5	18.1					
34	270	4.2	27	.6	4.3	21.4					
35	248	4.4	25	.5	4.5	18.6					
36	360	4.8	36	.4	2.5	20.2					
37	45	6.0	5	.3	3.5	32.9					
39	45	5.6	5	.3	3.2	41.1					
40	45	5.7	5	.5	3.2	61.2					
41	45	8.2	5	.7	3.0	45.7					
42	45	8.6	5	.8	3.8	38.8					
43	225	2.0	23	.2	3.8	22.7					
44	225	1.4	23	.2	3.3	19.6					
45	240	2.0	0	0.0	0.0	15.5					
46	248	3.0	0	0.0	0.0	18.3					
47	200	2.2	0	0.0	0.0	17.8					
48	45	7.7	5	.4	2.6	18.9					
49	45	5.0	5	.3	3.0	21.2					
50	45	4.2	5	.3	3.0	21.6					
51	45	3.4	5	.3	3.0	22.9					
52	360	2.0	36	.2	2.7	22.3					
53	360	1.6	0	0.0	0.0	20.7					
54	158	5.2	16	.4	2.3	19.1					
55	158	5.4	16	.4	2.6	23.9					
56	180	6.4	18	.4	2.5	24.6					
57	210	6.7	21	.4	2.6	21.9					
58	210	6.2	21	.4	2.9	18.6					
59	210	5.7	21	.2	2.0	14.0					
60	210	5.6	0	0.0	0.0	12.0					
61	210	6.4	0	0.0	0.0	10.7					
62	225	7.5	23	.8	3.4	10.5					
63	225	6.3	23	.7	3.4	8.5					
64	225	6.6	23	.2	2.6	8.5					

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6506

STA	WIND		WAVE			BOTTOM DEPTH M	BOTTOM SEDIMENT			EOD MG/G DAYS RUN
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.		DRY SOLIDS PCT.	VOLA- TILES PCT.	OTL + GREASE PCT. DS	
1	45	2.0	0	0.0	0.0	9.1				
2	90	2.0	0	0.0	0.0	9.4				
3	90	1.6	0	0.0	0.0	8.9				
4	90	4.0	0	0.0	0.0	7.6				
5	90	4.6	9	.2	2.3	7.9				
6	225	10.4	23	1.0	3.6	11.6				
7	225	13.8	23	.8	3.7	13.1				
8	225		23	.8	4.4	13.7				
9	225	15.0	23	.9	4.2	15.5				
10	270	9.2	27			16.1				
11	45	5.6	5	.8	4.1	18.4				
13	45	4.6	5	.8	4.2	16.0				
14	45	5.4	5	.5	3.8	12.0				
15	45	5.6	5	.7	3.2	21.0				
16	45	5.6	5	.4	2.7	23.2				
17	45	5.9	5	.5	3.2	11.4				
18	45	9.0	5	.5	3.3	18.0				
19	180	4.5	18	.5	4.4	18.1				
20	158	1.8	16	.3	4.5	22.3				
21	180	4.4	18	.2	3.7	15.8				
22	180	2.4	0	0.0	0.0	13.4				
23	90	.6	0	0.0	0.0	8.9				
24	200	6.0	20	.2	3.3	13.4				
25	225	4.6	23	.2	2.1	16.8				
26	225	5.0	23	.5	2.8	17.5				
27	225	5.2	23	.3	3.0	20.4				
28	225	5.2	23	.3	3.4	44.6				
29	225	4.2	23	.5	3.4	19.8				
30	240	5.2	0	0.0	0.0	18.0				
31	240	.8	0	0.0	0.0	15.2				
32	240	2.8	0	0.0	0.1	12.2				
33	240	4.8	0	0.0	0.0	17.8				
34	240	3.8	0	0.0	0.0	21.3				
35	240	3.8	24			18.9				
36	225	5.1	23	.5	3.3	20.7				
37	225	7.1	23	.4	2.7	32.4				
39	225	6.4	23	.4	2.5	41.9				
40	225	6.0	23	.4	2.8	61.6				
41	225	3.2	23	.2	2.6	45.5				
42	225	2.2	0	0.0	0.0	38.4				
43	225	5.7	23	.6	4.1	22.6				
44	225	6.8	23	.6	3.8	19.6				
45	225	7.4	23	.6	3.8	15.7				
46	225	7.6	23	.6	4.8	16.4				
47	225	7.8	23	.7	4.7	18.0				
48	180	8.0	18	.6	4.0	18.3				
49	180	8.5	18	.8	3.7	21.0				
50	200	7.6	20	.6	3.6	21.6				
51	180	6.4	18	.8	4.5	22.6				
52	180	6.7	18	.6	3.8	22.6				
53	180	10.4	18	.9	4.2	20.8				

CRUISE 6507

2	220	10.6	22	.6	3.6	9.4				
6	240	8.2	24	.6	3.5	11.9				
7	240	5.4	24	.2	2.6	13.1				
13	170	13.2	17	.6	3.6	16.1				
15	210	9.0	21	1.0	3.8	21.0				
16	180	8.0	18	.3	3.5	23.2				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6507

STA	WIND		WAVE		PER SEC.	BOTTOM DEPTH M	BOTTOM SEDIMENT			800 MG/G DAYS RUN
	DIR DEG.	VEL M/S	DIR DEG. x10	HGT M			DRY SOLIDS PCY.	VOLA- TILES PCT.	OIL + GREASE PCT. DS	
54	150	6.8	15	.8	5.3	19.1				
55	150	5.8	15	.7	5.0	23.5				
56	150	5.2	15	.6	4.0	24.4				
60	240	7.1	24	.5	3.5	12.0				
62	240	9.4	24	.8	4.0	10.5				

CRUISE 6508

1	315	3.6	32	.2	2.3	7.0				
2	315	5.4	32	.2	2.9	8.8				
3	315	4.8	32	.2	2.2	8.8				
4	315	3.0	0	0.0	0.0	7.4				
5	315	5.8	0	0.0	0.0	7.9				
6	240	15.0	25	.8	4.5	11.9				
7	225	6.0	23	.4	2.7	13.4				
8	210	6.5	21	.2	2.6	14.3				
9	210	7.6	21	.2	2.6	16.1				
10	240	7.9	24	.3	3.1	16.8				
11	260	6.3	26	.5	2.8	18.4				
12	240	6.6	0	0.0	0.0	16.0				
13	210	6.5	21	.3	3.3	16.3				
14	270	3.2	27	.2	3.0	12.6				
15	230	5.0	23	.5	3.7	21.1				
16	230	3.2	23	.5	3.3	23.4				
17	30	3.3	3	.3	3.5	12.0				
18	90	2.4	9	.2	4.0	18.3				
19	180	6.4	18	.5	3.9	18.4				
20	240	10.0	24	1.1	4.4	23.0				
21	240	13.4	24	1.1	5.3	16.1				
22	240	10.8	24	1.2	5.1	13.4				
23	240	9.2	24	.8	5.2	9.1				
24	45	3.4	5	.2	3.1	13.4				
25	45	4.0	5	.5	3.2	17.4				
26	60	7.0	6	.5	2.8	18.0				
27	60	6.2	6	.5	3.4	24.7				
28	60	4.0	6	.3	3.0	44.8				
29	30	5.2	3	.3	3.1	20.1				
30	45	2.0	0	0.0	0.0	18.1				
31	360	3.0	0	0.0	0.0	14.9				
32	360	1.4	0	0.0	0.0	12.2				
33	360	1.0	0	0.0	0.0	18.0				
34	360	4.0	36	.2		21.4				
35	360	2.2	0	0.0	0.0	18.9				
36	200	6.4	20	.8	3.0	21.3				
37	210	3.0	21	.5	3.5	32.9				
39	210	1.8	0	0.0	0.0	41.5				
40	300	1.4	0	0.0	0.0	61.2				
41	20	1.2	0	0.0	0.0	45.7				
42	360	1.8	0	0.0	0.0	38.4				
43	135	1.6	0	0.0	0.0	22.6				
44	135	1.0	0	0.0	0.0	20.1				
45	135	2.0	14	.3	3.0	17.7				
46	80	3.0	0	0.0	0.0	18.4				
47	90	3.2	9	.2		17.4				
48	180	7.4	18	.8	4.2	19.0				
49	180	9.6	18	1.1	3.7	21.0				
50	180	8.1	18	1.0	3.8	21.6				
51	180	3.4	18	.6	5.0	22.9				
52	210	4.0	21	.6	5.1	22.3				
54	180	3.4	18	.3	3.3	19.2				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIC

CRUISE 6508

STA	WIND		WAVE			BOTTOM DEPTH M	BOTTOM SEDIMENT			BOD MG/G DAYS RUN
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.		DRY SOLIDS PCT.	VOLA- TILES PCT.	DIL. GREASE PCT. DS	
55	140	6.0	14	.4	2.2	23.9				
56	135	4.2	14	.2	2.4	24.6				
57	180	2.0	18	.4	2.8	22.0				
58	125	1.8	13	.2	2.8	18.6				
59	50	1.4	0	0.0	0.0	14.0				
60	270	5.4	27	.4	2.4	12.0				
61	250	6.4	25	.5	3.2	19.8				
62	315	1.6	32	.4	2.0	10.4				
63	270	2.8	27	.2	3.3	8.5				

CRUISE 6509

2	220	2.2	0	0.0	0.0	9.2				
3	220	1.2	0	0.0	0.0	8.9				
4	220	1.2	0	0.0	0.0	7.4				
5	270	1.5	0	0.0	0.0	7.9				
6	240	11.4	24	.5	3.7	11.9				
7	240	8.0	24	.7	2.9	13.1				
8	240	9.2	24	.5	3.6	14.0				
9	290	9.4	29	.8	4.2	16.1				
10	290	10.6	29	.9	4.2	16.8				
11	300	6.0	30	.7	4.8	18.3				
12	300	6.2	30	.8	4.4	15.8				
13	220	6.4	22	.5	3.4	15.8				
14	240	5.4	24	.5	3.9	11.9				
15	240	3.6	24	.6	3.6	21.3				
16	220	10.7	22	.6	3.9	23.3				
17	240	4.5	24	.5	4.1	12.2				
18	250	4.6	25	.5	3.9	18.3				
19	250	4.6	25	.5	4.0	18.3				
21	215	7.8	22	1.0	6.3	16.0				
22	215	9.0	22	1.0	6.6	13.7				
23	220	9.0	22	.7	6.9	9.8				
24	180	5.2	0	0.0	0.0	13.7				
25	180	5.8	0	0.0	0.0	17.4				
26	180	4.6	18	.2	2.5	17.7				
27	200	6.6	20	.2	3.2	26.5				
28	220	7.7	22	.6	3.7	45.1				
29	220	5.8	29	.5	3.3	20.2				
30	220	12.2	22	.8	5.5	18.4				
31	240	13.6	24	.8	5.7	13.5				
32	310	8.6	31	.8	6.4	12.2				
33	310	9.2	31	.6	6.4	18.0				
34	310	8.0	31	.7	4.9	21.3				
35	315	7.8	32	.6	4.3	19.2				
36	180	2.8	18	.5	3.7	21.2				
37	135	5.1	14	.3	3.5	33.3				
39	140	2.0	14	.2	3.1	41.2				
40	135	2.6	0	0.0	0.0	61.2				
41	45	1.0	0	0.0	0.0	45.7				
42	210	.8	0	0.0	0.0	37.6				
43	240	8.0	24	.5	3.3	21.6				
44	240	7.0	24	.5	3.8	21.0				
45	240	4.6	24	.6	4.4	14.5				
46	240	9.6	24	.6	4.7	18.4				
47	240	7.5	24	.6	4.5	17.8				
48	60	3.2	6	.2	3.3	18.7				
49	90	5.9	0	0.0	0.0	20.8				
50	90	7.8	9	.4	2.5	21.6				
51	70	5.3	7	.5	2.8	22.6				

WIND, WAVE, AND SEDIMENT DATA

LAKE ERIE

CRUISE 6509

STA	WIND		WAVE			BOTTOM SEDIMENT				
	DIR DEG.	VEL M/S	DIR DEG. X10	HGT M	PER SEC.	BOTTOM DEPTH M	DRY SOLIDS PCT.	VOLA- TILES PCT.	OIL + GREASE PCT. DS	BOD MG/G DAYS RUN
52	90	0.4	9	.3	3.0	21.7				
53	90	2.2	9	.2	2.0	20.5				
54	90	2.4	9	.2	2.8	18.9				
55	190	8.4	19	.4	2.7	23.8				
56	210	10.3	21	.7	3.4	24.4				
57	210	13.8	21	.9	4.5	22.0				
58	240	11.4	24	.8	4.3	18.9				
59	250	9.0	25	.8	4.5	14.0				
60	300	7.4	30	.5	4.2	12.0				
61	330	9.2	33	.6	4.0	18.7				
62	360	6.8	36	.5	3.0	15.2				
63	360	5.8	36	.4	2.7	8.4				
64	360	2.8	0	0.0	0.0	9.1				

Appendix C. STATISTICAL SUMMARY

11-11-11

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= 7

WATER TEMP. CELSIUS

LAKE ERIE
1965

DATE-	180-191	195-211	221-232	235-237	243-253	257-265	273-275	284-298	299-313
DEPTH M									
MEAN-									
0	20.596	21.649	22.066	22.365	20.039	20.056	17.990	14.002	11.088
5	20.014	21.695	22.088	21.951	20.013	19.545	17.098	12.952	10.104
10	18.735	20.342	21.048	21.571	19.740	19.420	17.971	13.875	11.064
15	15.143	15.194	19.397		19.131	18.792	17.910	13.790	11.099
20	9.792	9.735	12.488		16.844	18.236	18.125	13.982	11.196
25									11.290
30		5.188	5.508		7.566	5.568		13.072	10.828
35		4.950			5.640	5.950		7.030	10.940
40		4.343	4.727		5.775	5.008		10.178	10.853
45									10.850
50		4.500	4.530						
60					4.810	4.910		6.290	9.900
STANDARD DEVIATION-									
0	1.182	1.131	.661	.759	.691	.522	.984	.941	1.133
5	1.193	.825	.379	.378	.727	.438	.889	1.112	1.108
10	2.278	2.395	1.571	.868	.619	.615	.645	.945	1.043
15	3.797	3.748	2.945		1.544	1.283	1.570	.692	1.127
20	1.364	2.869	4.023		3.682	.713	.512	.758	.854
25									
30		.472	.210		3.210	.761		.613	.525
35									.127
40		.855	.170		1.095	.189		2.651	.367
45									
50									
60									
SAMPLE SIZE-									
0	35	58	57	13	63	51	11	61	61
5	36	46	8	7	10	6	4	10	8
10	30	53	51	10	55	44	10	53	54
15	19	33	31		27	19	2	21	20
20	10	17	19		23	19	4	21	21
25									1
30		5	5		5	5		5	4
35		1			1	1		1	2
40		3	3		4	4		4	3
45									1
50		1	1						
60					1	1		1	1

NITRATE MG/L

LAKE ERIC
1965

DATE-	100-191	195-211	221-232	235-237	243-253	257-265	273-275	284-290	299-313
DEPTH M									
MEAN-									
0		.143	.108	.347	.242	.167	.323	.312	.465
5		.115		.080	.260	.360	.250	.315	.494
10		.233	.054	.120	.192	.422	.185	.474	.472
15		.103	.062		.162	.310		.173	.437
20		.320	.083		.162	.103		.485	.487
25									.570
30		.230			.090	.260			.497
35									.420
40					.250	.200			.565
45									1.242
50									
60					.190				.500
STANDARD DEVIATION-									
0		.023	.094	.335	.204	.152	.310	.477	.226
5		.064			.125		.212	.304	.161
10		.153	.029		.181	.096	.021	.418	.214
15		.139	.030		.247	.085		.106	.187
20		.170	.055		.137	.055		.262	.159
25									
30									.269
35									.170
40									.069
45									
50									
60									
SAMPLE SIZE-									
0		3	5	6	33	6	7	6	49
5		2		1	6	1	2	2	5
10		4	5	1	28	9	2	9	44
15		4	6		13	3		4	15
20		2	1		9	3		2	19
25									1
30		1			1	1			3
35									2
40					1	1			2
45									1
50									
60					1				1

SULFATE MG/L

LAKE ERIE
1965

DATE-	180-191	195-211	221-232	235-237	243-253	257-265	273-275	284-298	299-313
DEPTH M									
MEAN-									
0	43.091	44.737	46.228	39.692	22.619	21.863	20.000	21.098	21.250
5	42.412	44.957	39.250	39.667	19.900	18.167		20.400	19.125
10	43.241	44.792	46.500	38.800	23.418	22.500		21.358	21.453
15	44.368	45.152	47.613		23.111	22.368		21.714	21.900
20	43.200	43.235	48.474		22.870	21.316		21.238	21.762
25									23.000
30		38.800	48.000		23.000	21.200		20.400	21.500
35		38.000			25.000	18.000		22.000	23.000
40		38.333	47.000		23.750	20.750		20.000	22.333
45									22.000
50		43.000	49.000						
60					22.000	22.000		19.000	26.000
STANDARD DEVIATION-									
0	6.316	7.338	6.350	1.843	2.498	2.793		1.989	2.447
5	6.756	7.382	5.230	3.055	2.961	1.722		3.273	4.390
10	6.895	7.150	4.808	3.114	2.195	2.592		1.582	2.271
15	6.057	5.794	2.801		1.908	2.191		1.765	2.125
20	7.345	4.829	2.695		1.792	1.635		1.546	1.445
25									
30		6.221	3.674		.707	.837		.548	1.915
35									
40		8.963	5.000		1.500	.500			.577
45									
50									
60									
SAMPLE SIZE-									
0	33	57	57	13	53	51	11	61	60
5	34	46	6	3	10	6		10	4
10	29	53	52	5	55	44		53	54
15	19	33	31		27	19		21	24
20	10	17	19		2*	19		21	21
25									1
30		5	5		5	5		5	4
35		1			1	1		1	2
40		3	3		4	4		4	3
45									2
50		1	1						
60					1	1		1	1

CALCIUM MG/L

LAKE ERIE
1965

DATE-	100-191	195-211	221-232	235-237	243-253	257-265	273-275	284-298	299-313
DEPTH M									
MEAN-									
0	47.563	48.047	49.237	38.988	46.837	50.431	49.300	51.085	49.482
5	47.719	48.067	45.025	35.600	39.970	42.750		47.190	43.713
10	47.083	49.366	49.935	47.840	49.127	51.541		51.936	49.674
15	50.153	50.547	51.245		49.289	51.947		52.948	51.100
20	49.610	50.929	51.426		46.939	51.958		52.752	50.981
25									51.200
30		51.075	52.480		48.420	54.120		55.920	50.600
35		54.100			48.500	49.700		55.400	50.700
40		52.400	53.100		49.125	53.550		56.575	50.967
45									51.000
50		52.100	53.600						
60					49.000	53.000		59.500	51.700
STANDARD DEVIATION-									
0	8.689	4.342	4.656	8.177	4.294	4.550		4.092	5.453
5	8.748	4.851	5.000	1.345	3.660	5.750		4.283	8.347
10	8.558	3.237	3.895	16.172	7.168	3.615		3.543	4.646
15	1.711	2.341	2.402		2.049	3.233		3.039	3.686
20	1.184	1.780	2.317		2.050	3.068		2.463	1.062
25									
30		1.367	2.544		1.173	2.202		2.450	.283
35									.424
40		.721	2.694		1.081	.208		3.335	.280
45									
50									
60									
SAMPLE SIZE-									
0	35	58	57	13	63	51	11	61	60
5	36	46	8	3	10	6		10	8
10	37	53	52	5	55	44		53	54
15	19	33	31		27	19		21	20
20	10	17	19		23	19		21	21
25									1
30		4	5		5	5		5	4
35		1			1	1		1	2
40		3	3		4	4		4	3
45									1
50		1	1						
60					1	1		1	1

MAGNESIUM MG/L

LAKE ERIE
1965

DATE-	180-191	195-211	221-232	235-237	243-253	257-265	271-275	284-298	299-313
DEPTH M									
	MEAN-								
0	10.652	7.515	8.137	7.138	8.416	8.884	8.300	8.846	8.427
5	10.494	7.382	7.700	7.433	8.620	9.817		9.590	8.088
10	10.541	7.626	8.323	7.780	8.553	8.764		8.568	8.435
15	10.695	7.550	8.374		8.681	8.963		8.395	8.305
20	10.480	7.718	8.585		8.483	8.574		8.771	8.571
25									8.700
30		7.188	8.060		8.440	8.640		10.360	8.150
35		7.700			8.600	7.300		9.200	8.100
40		7.400	8.000		8.300	8.125		9.825	7.967
45									8.700
50		7.700	7.700						
60					8.100	8.500		10.500	8.600
	STANDARD DEVIATION-								
0	1.022	1.171	.783	.403	.828	.751		.891	.650
5	1.220	.759	1.134	.321	.784	.488		1.301	.688
10	.846	.969	.757	.383	.718	.591		.710	.497
15	1.022	.797	.651		.626	.698		.379	.578
20	.974	1.442	.741		.645	.665		.919	.396
25									
30		.985	.826		.152	.404		1.286	.597
35									
40		1.277	1.058		.216	.403		1.590	1.137
45									
50									
60									
	SAMPLE SIZE-								
0	33	52	57	13	63	51	11	61	60
5	35	39	8	3	10	6		10	8
10	29	47	52	5	55	44		33	54
15	19	28	31		27	19		21	20
20	16	17	19		23	19		21	21
25									1
30		5	5		5	5		5	4
35		1			1	1		1	2
40		3	3		4	4		4	3
45									1
50		1	1						
60					1	1		1	1

SPEC. COND. MICROMMDS

LAKE ERIE
1965

DATE-	180-191	195-211	221-232	235-237	243-253	257-265	273-275	284-290	299-313
DEPTH M									
MEAN-									
0	289.914	301.241	302.053	259.000	299.603	305.275	285.182	302.443	300.098
5	286.722	296.326	289.625	262.857	262.200	268.167	260.500	285.100	267.375
10	291.033	306.642	304.981	263.400	316.218	310.773	290.000	307.679	305.043
15	294.421	313.848	311.581		308.778	313.526	310.000	309.476	307.200
20	296.300	315.647	311.789		309.696	310.632	305.250	311.952	312.230
25									318.000
30		313.200	311.400		314.200	316.800		315.200	316.000
35		318.000			320.000	316.300		319.000	316.500
40		315.000	313.000		315.250	316.250		317.500	316.667
45									317.000
50		313.000	312.000						
60					314.000	318.000		328.000	318.000
STANDARD DEVIATION-									
0	23.691	21.339	22.246	19.292	24.590	21.706	28.778	23.679	25.350
5	23.695	23.161	32.645	19.760	30.506	30.669	23.671	39.616	46.706
10	14.426	14.494	17.565	21.083	74.535	15.416	23.348	17.372	17.991
15	9.856	5.602	11.786		6.350	12.660	8.485	15.807	15.450
20	4.547	4.660	5.287		5.380	5.294	5.315	5.518	6.147
25									
30		3.271	2.191		3.194	3.564		2.280	1.414
35									.767
40		2.000	3.606		1.500	3.962		1.291	1.528
45									
50									
60									
SAMPLE SIZE-									
0	35	58	57	13	63	51	11	61	61
5	36	46	8	7	10	6	4	10	8
10	30	53	52	10	55	44	17	53	54
15	19	33	31		27	19	2	21	29
20	10	17	19		23	19	4	21	21
25									1
30		5	5		5	5		5	4
35		1			1	1		1	2
40		3	3		4	4		4	3
45									1
50		1	1						
60					1	1		1	1