Appendix D. Chemical data spreadsheet for 1998 Mountain Lake water samples, including					
Type	Date	Depth, cm	NH4-N	O-PO4-P	Nitrate+Nitri
	1998				
Rain A	27-Oct	9	0.14	0.017	0.615
Rain A	23-May	13	0.52	0.046	1.74
Rain B	23-May	13	0.56	0.03	1.56
Rain A	25-May	20	0.36	0.03	0.8
Rain B	25-May	18.5	0.56	0.03	0.8
Rain A	3-Jun	23	0.38	0.023	0.875
Rain B	3-Jun	23	0.2	0.017	0.22
Rain B	10-Jun	10	0.11	0.0052	0.825
Rain A	24-Jul	4	2.4		8.4
Rain B	24-Jul	6	0.6		7.2
Rain A	9-Aug	23	0.05	0.12	0.21
Rain B	9-Aug	23	0.7	0.08	1.6
Rain A	15-Aug	6.5	0.4	0.00074	5.2
Rain B	15-Aug	15	1.1	0.16	6.4
Rain A	18-Aug	23	0.6	0.0005	2.8
Rain B	18-Aug	23	0.31	0.0011	4.2
Rain A	9-Sep	9	0.3	0.16	3.8
Rain B	9-Sep	9	0.012	0.64	4
Rain A	18-Sep	16	0.35	0.08	1
Rain B	18-Sep	16	0.6	0.08	2.4
Rain A	23-Sep	7.5	0.16	0.7	1.5
Rain B	23-Sep	7	0.2	0.1	1.3
Rain A	7-Oct	6	1.2	0.16	1.4
Rain B	7-Oct	6	0.9	0.16	8
Rain A	9-Oct	23	0.35	0.0025	0.25
Rain B	9-Oct	23	0.007	0.0012	0.22
		AVERAGES	**0.50265385**	**0.11017667**	**2.58903846**
Lake	15-Apr	0.1	0.014	0.0028	0.84
Lake (mid)	15-Apr	0.1	0.0135	0.000125	0.17
Lake (shal)	15-Apr	0.1	0.016	0.0014	0.074
Lake (shal)	14-May	0.1	0.016	0.0007	0.3
Lake (shal)	14-May	4	0.014	0.00073	0.27
Lake	14-May	1	0.018	0.0009	0.55
Lake	14-May	6	0.017	0.00019	0.275
Lake	14-May	10	0.018	0.00027	0.017
Lake	14-May	17	0.024	0.0016	0.618
Lake	12-Jun	1	0.0165	0.0016	0.33
Lake	12-Jun	6	0.02	0.0007	0.32
Lake	12-Jun	10	0.018	0.00071	0.48
Lake	12-Jun	17	0.02	0.00012	0.37
Lake	14-Jul	0.1	0.038	0.0048	0.018

Lake	14-Jul	6	0.016	0.0013	0.12
Lake	14-Jul	10	0.02	0.008	0.23
Lake	14-Jul	17	0.023	0.00187	0.195
Lake	18-Aug	0.1	0.0029	0.0027	0.014
Lake	18-Aug	6	0	0.006	0
Lake	18-Aug	10	0.0064	0.0005	1.1
Lake	18-Aug	17	0.01	0.0015	3.2
Lake	12-Sep	0.1	0.0056	0.0015	0
Lake	12-Sep	6	0.018	0.00074	0
Lake	12-Sep	10	0.0027	0.001	0.028
Lake	12-Sep	17	0.0042	0.0018	1.65
Nutrient	9-Oct	5	0.092	0.012	0
Nutrient	9-Oct	12	0.003	0.0018	0.5
Nutrient	9-Oct	17	0.0027	0.0035	1.8
Nutrient	9-Oct	17	0.0027	0.0035	1.3
		AVERAGES	**0.01628276**	**0.00221914**	**0.50927586**
Marsh	15-Apr		0.019	0.0014	0.63
Marsh	21-May		0.019	0.03	0.56
Marsh	6-Jun		0.02	0.0015	0.95
Marsh	10-Jul		0.032	0.0008	0.47
Marsh	18-Aug		0.0019	0.0001	0
Marsh	22-Oct		0.0019	0.007	0.63
		AVERAGES	**0.01563333**	**0.0068**	**0.54**
Lake Foam	10-Oct		0.0085		0.042
Lake Foam	22-Oct				0.19
Spruce Bog	15-Oct		0.032	0.015	0
i1	15-Apr		0.016	0.0017	0.875
i2	15-Apr		0.022	0.015	0.99
i3	15-Apr		0.16	0.03	0.86
i4	15-Apr		0.016	0.0011	1.44
i4b	15-Apr		0.095	0.016	1.32
i5	15-Apr		0.016	0.015	0.99
i2	21-May		0.016	0.005	1.4
i2b	21-May		0.018	0.029	1.7
i3	21-May		0.014	0.017	1.26
i3b	21-May		0.016	0.032	1.25
i4	21-May		0.017	0.00078	1.8
i4b	21-May		0.014	0.00098	0.95
i5	21-May		0.017	0.017	0.575
i1	6-Jun		0.022	0.004	1.4
i1b	6-Jun		0.018	0.0035	0.85
i2	6-Jun		0.016	0.012	1.9

i2b	6-Jun		0.025	0.0071	0.99
i3	6-Jun		0.015	0.0071	0.85
inbd	6-Jun		0.018	0.012	0.85
i4	6-Jun		0.014	0.00058	1.32
i4b	6-Jun		0.015	0.00063	1.2
i5	6-Jun		0.015	0.00078	0.215
i1	10-Jul		0.024	0.0029	0.385
i2	10-Jul		0.013	0.0037	0.875
i2b	10-Jul		0.024	0.0028	0.58
i3	10-Jul		0.018	0.015	0.45
i4	10-Jul		0.014	0.00018	0.3
i4b	10-Jul		0.14	0.0037	1.2
i5	10-Jul		0.013	0	0.068
i2	18-Aug		0.0064		5.3
i3	18-Aug		0.022	0.002	3.4
i4	18-Aug		0	0.0059	3.6
i4b	18-Aug		0.0018	0.0009	3.4
i4	16-Sep		0.0098	0.009	2.2
i3	22-Oct		0	0.0063	0.77
i4	22-Oct		0.0014	0.0047	2.3
		AVERAGES	**0.02451111**	**0.00815229**	**1.38369444**

ain, lake water, marsh and input streams.					
NO2-N	NO3-N	SILICA	HARDNESS	ALKALINITY	PH
0	0.615	0.05	6.4	0	4.5
0.026	1.714	1.2	14	1.8	6
0	1.56	0.53	7.2	0	4
0	0.8	0.54	8.4	0.4	5
0	0.8	0.5	7.6	0.6	5
0	0.875	0.05	8.4	0	4
0	0.22	0.08	7.2	0	4
0	0.825	0.04	7.6	0	4
	8.4				
	7.2	0.17	22	0.2	4.5
0.01	0.2	0.006	17.7	1.6	6
0.02	1.58	0	19.7	0	4.5
0.062	5.138	0.019	26.3	0	4.5
0.035	6.365				
0.038	2.762	1.9	19.6	0	4.5
0.06	4.14	0.057	17.4	0	6
0	3.8	2.65	28.4	6.1	6.6
0.36	3.64	0.001	16.4	0	4.5
0	1	0.017	19.4	0	4.5
0	2.4	0.057	17.6	0	4.5
0.01	1.49				
0	1.3	0.009	20	0.9	4.5
0.45	0.95	0.05	17.6	0	4.5
0.007	7.993		17.6	0	4.5
0	0.25	0.034	20.3	0.4	6
0.015	0.205	0.012	21.2	0	4.5
	2.547	**0.37904762**	**16**	**0.52173913**	**4.80869565**
0	0.84	0.76	21.2	10	6.6
0	0.17	0.6	20.4	5.2	6.4
0	0.074	0.62	34	6	6.4
0	0.3	0.54	12.4	7.2	6.8
0	0.27	0.76	18.4	6.8	6.6
0	0.55	0.54	21.2	8	6.6
0	0.275	0.57	19.6	7	6.6
0	0.017	0.55	10.4	8	6.4
0	0.618	0.63	22.4	6	6.6
0	0.33	0.77	20.8	8.4	6.6
0	0.32	0.77	19.2	7.8	6.8
0	0.48	0.25	18.4	8.4	6.4
0	0.37	0.55	17.2	7.6	6.6
0.042	-0.024	0.64	18.8	7	6.6

0	0.12	0.66	26	8.2	6.6
0	0.23	0.65	19.6	9.4	6.6
0	0.195	0.65	22.8	8.6	6.4
0	0.014	0.044	21.7	5.3	6.2
0	0	0.044	28.4	6.1	6.6
0.03	1.07	0.055	21.7	4.3	6.4
0	3.2	0.055	19.8	5	6
0	0	0.09	20.5	4.5	6.6
0	0	0.044	20.8	4.4	6
0	0.028	0.024	20.2	3.9	6.4
0.1	1.55	0.035	22.4	2.9	6
0.03	-0.03	0.044	20.3	5	6.4
0.03	0.47	0.02	21.4	5.3	6.2
0.05	1.75	0.1	23	4.6	6.4
0	1.3	0.1	21.5	5	6.4
	0.49955172	**0.385**	**20.8448276**	**6.41034483**	**6.45517241**
0	0.63	0.74	60.4	41.8	7.1
0	0.56	1.1	56.4	37.6	7
0	0.95	1.3	83.2	54.8	6.8
0	0.47	0.8	73.6	47.2	7
0	0	0.27	27.7	17.1	7.2
0	0.63	0.015	14.1	11.9	7.4
	0.54	**0.70416667**	**52.5666667**	**35.0666667**	**7.08333333**
0.045	-0.003	0.27	29.1	15.6	7
0	0.19	0.13	20.8	1.6	6.2
0	0	0.02	17.1	1.5	6
0	0.875	2.2	200	75.4	7.2
0	0.99	1.2	22.8	12.4	6.6
0	0.86	0.1	11.2	0	4
0	1.44	0.45	10.4	0	4
0	1.32	0	12.8	0.6	5
0	0.99	0.22	23.2	7.6	6.4
0	1.4	0.56	28.4	9.8	6
0	1.7	0.73	24.4	13.2	6.4
0	1.26	0.17	10.8	0.8	5
0	1.25	0	28	1.2	6
0	1.8	0.04	11.2	1.4	5
0	0.95	0	11.2	0.4	5
0	0.575	0.2	31.6	13	6.8
0	1.4	1.4	90	62.8	7
0	0.85	0.8	110	62	7
0	1.9	0.68	30	15	6.4

0	0.99	0.55	36.4	22	6.6
0	0.85	0.08	11.6	1	5
0	0.85	1.9	93.2	45	7.2
0	1.32	0.6	15.6	2.2	6.2
0	1.2	0	16.4	0	4.5
0	0.215	0.37	23.2	8	6.6
0	0.385	0.7	96	64.4	7.2
0	0.875	0.82	29.2	18.4	6.2
0	0.58	1.1	67.6	41.6	6.8
0	0.45	0.27	8.4	1.2	5
0	0.3	0.16	14.8	1.6	5
0	1.2	0	14	0	4
0	0.068	0.52	17.6	6	6.4
0.06	5.24	0.044	25.3	12.6	6.6
0	3.4	0.03	21	1.2	6
0	3.6	0	20.2	4.6	6.8
0.59	2.81	0	21.5	5.9	6.6
0.08	2.12	0.033	19.6	2.2	6.2
0.05	0.72	0.035	21.3	1.3	6
0.105	2.195	1.6	19.3	3.6	6.6
	1.35911111	**0.44248276**	**34.6722222**	**14.2275862**	**6.07241379**

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