

HRM Lake/ River Water Quality Monitoring Program

May / June 2006

Lake Deep Stations				Geodetic (UTM - NAD83 - Zone 20)		On-Site Data						Laboratory Data										
Lake	Community	Date	Time	Easting	Northing	Sample Depth (m)	Secchi Depth (m)	Temp (Celsius)	Dissolved Oxygen (mg/L)	pH	Specific Conductance (uS/cm)	Turbidity (NTU)	Dissolved Chloride (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	TSS (mg/L)	Fecal Coliform (CFU/100ml)	Total Phosphorus (mg/L)	Chlorophyll a - Acidification (ug/L)	Chlorophyll a - Welschmeyer (ug/L)	Phaeophytin a (ug/L chl eq/L)
Albro Lake	Dartmouth	18-May-06	8:16	454274	4948467	1.0	3.0	15.17	9.15	6.55	303	0.3	76	<0.05	<0.01	0.2	<2	3	<0.002	1.70	1.55	0.13
Anderson Lake	Dartmouth	31-May-06	13:41	450801	4952544	1.0	2.2	18.12	9.31	5.69	60	0.5	11	<0.05	<0.01	0.3	3	1	<0.002	1.35	1.30	0.31
Barrett Lake	Beaverbank	16-May-06	8:32	445586	4962507	1.0	2.8	16.16	9.30	7.09	174	1.1	38	0.09	<0.01	0.3	4	3	0.007	7.23	7.35	-0.23
Beaver Pond	Beaverbank	30-May-06	12:15	448242	4960989	1.0	1.2	20.00	9.37	6.75	188	2.9	34	<0.05	<0.01	0.4	4	7	0.023	24.46	22.68	-0.95
Bell Lake	Dartmouth	17-May-06	11:37	459571	4946971	1.0	4.8	13.92	9.58	6.70	55	0.4	10	0.07	<0.01	0.2	<2	83	0.003	1.05	1.01	0.20
Bissett Lake	Cole Harbour	24-May-06	14:38	462583	4945147	1.0	3.6	15.13	9.28	8.13	485	0.9	95	0.20	<0.01	0.5	<2	ND	0.007	1.69	1.78	0.36
Black Point Lake	Hubley	30-May-06	10:12	437713	4946472	1.0	1.0	18.51	8.02	4.80	85	0.1	21	<0.05	<0.01	0.6	2	2	0.002	1.83	2.02	2.86
Chocolate Lake	Mainland South	25-May-06	8:15	450558	4942992	1.0	9.5	14.60	9.78	5.60	373	0.4	83	0.17	<0.01	0.2	3	ND	<0.002	0.16	0.13	-0.08
Cranberry Lake	Dartmouth	18-May-06	10:09	460557	4948554	1.0	3.6	15.20	9.46	7.26	371	0.7	84	0.16	<0.01	0.3	2	9	0.003	1.80	1.66	0.62
Drain Lake	Middle Sackville	18-May-06	16:59	440289	4961153	1.0	1.0	19.37	9.54	6.42	199	5.4	46	<0.05	<0.01	0.3	130	150	0.030	12.46	13.60	6.34
Duck Lake	Beaverbank	16-May-06	11:17	445994	4961611	1.0	1.6	17.49	9.16	7.05	288	3.2	68	<0.05	<0.01	0.4	4	32	0.022	14.85	15.62	1.78
Fenerty Lake	Beaverbank	30-May-06	15:27	443418	4964094	1.0	1.2	19.89	9.73	6.50	73	0.7	9	<0.05	<0.01	0.6	3	5	0.005	14.46	13.90	-0.22
First Lake	Middle Sackville	16-May-06	14:18	447394	4957987	1.0	4.8	15.16	10.72	7.74	449	0.9	110	0.14	<0.01	0.3	2	ND	<0.002	3.72	3.57	0.20
Fletchers Lake	Fall River	23-May-06	10:05	451782	4965188	1.0	3.0	15.81	9.53	6.66	142	0.6	30	0.17	<0.01	0.2	<2	7	<0.002	2.80	2.78	0.46
Governor Lake	Timberlea	25-May-06	14:38	444610	4943383	1.0	2.0	15.81	9.55	6.20	359	1.1	93	0.31	<0.01	0.3	3	8	0.002	1.44	1.40	0.30
Hubley Big Lake	Hubley	30-May-06	9:11	434129	4944834	1.0	1.2	17.78	9.02	4.67	50	0.6	9	<0.05	<0.01	0.3	<2	4	0.026	7.27	6.46	0.96
Kearney Lake	Bedford	24-May-06	16:12	444719	4949434	1.0	3.3	14.96	9.61	6.91	178	0.4	40	0.20	<0.01	0.4	<2	1	0.006	1.64	1.64	0.26
Kinsac Lake	Fall River	23-May-06	15:59	448972	4962489	1.0	2.6	14.70	9.55	6.77	85	0.8	17	0.06	<0.01	0.4	<2	1	0.003	2.25	2.26	0.48
Lake Banook	Dartmouth	15-May-06	13:20	455933	4947646	1.0	5.0	14.21	10.12	6.89	396	0.6	92	0.56	<0.01	0.3	3	ND	0.003	1.42	1.37	0.13
Lake Charles	Dartmouth	17-May-06	8:27	456556	4952323	1.0	2.8	13.70	10.60	6.96	201	0.7	44	0.28	<0.01	0.2	2	16	<0.002	3.75	3.53	-0.18
Lake Echo	Eastern Shore	24-May-06	10:17	469463	4951905	1.0	1.6	15.75	9.04	5.56	51	0.9	8	<0.05	<0.01	0.4	<2	2	0.014	2.98	3.17	1.74
Lake Micmac	Dartmouth	15-May-06	11:00	456587	4948976	1.0	3.5	14.80	10.72	6.75	372	0.5	85	0.73	<0.01	0.3	2	ND	<0.002	0.87	0.85	0.19
Lake Thomas	Waverley	23-May-06	10:45	451813	4960546	1.0	2.8	15.20	9.83	6.98	161	0.4	33	0.13	<0.01	0.3	<2	1	<0.002	2.64	2.58	0.28
Lake William	Waverley	23-May-06	11:39	453749	4957592	1.0	3.8	14.27	10.04	7.04	150	0.4	33	0.13	<0.01	0.3	<2	2	<0.002	2.59	2.58	0.42
Lisle Lake	Sackville	18-May-06	14:40	442771	4963434	1.0	1.6	17.31	8.87	6.37	111	2.5	21	0.08	<0.01	0.3	<2	420	0.067	8.38	8.56	3.34
Little Albro Lake	Dartmouth	18-May-06	8:56	454240	4948038	1.0	4.0	15.57	9.46	6.93	304	0.5	76	<0.05	<0.01	0.2	<2	20	0.002	2.43	2.20	0.34
Long Lake	Mainland South	25-May-06	12:02	448921	4941483	1.0	2.2	14.48	9.49	5.58	197	0.6	50	0.12	<0.01	0.3	2	8	<0.002	0.50	0.46	0.12
Maynard Lake	Dartmouth	17-May-06	10:25	456160	4946559	1.0	2.6	14.48	10.03	7.25	319	0.9	79	<0.05	<0.01	0.2	<2	51	0.012	8.18	8.05	-0.85
McIntosh Run	bove outlet to Herring Cov	25-May-06	10:31	455802	4935740	1.0	1.5	15.01	10.45	5.71	134	0.9	31	0.19	<0.01	0.3	<2	24	0.002	1.58	1.68	1.25
Morris Lake	Dartmouth	17-May-06	15:33	460726	4944318	1.0	3.3	14.10	10.29	6.98	265	1.0	64	0.10	<0.01	0.2	2	6	0.008	7.40	7.56	-0.40
Nine-Mile River	Timberlea	28-Jun-06	12:30	437584	4933402	1.0	0.5 (disk on bottom)	18.14	9.53	5.08	51	1.6	10	0.15	<0.01	1	4	48	0.028	2.58	3.03	3.58
Nine-Mile River	Elmsdale	23-May-06	8:49	461251	4979050	1.0	0.5 (disk on bottom)	13.61	8.46	5.55	123	7.9	15	0.06	<0.01	0.6	38	46	0.010	4.19	4.55	3.59
Oathill Lake	Dartmouth	15-May-06	14:38	456385	4946811	1.0	3.7	15.20	9.30	7.11	390	0.9	86	0.36	<0.01	0.4	2	21	0.003	3.66	3.84	0.92
Papermill Lake	Bedford	17-May-06	17:00	445823	4951473	1.0	2.8	16.50	8.63	6.62	182	0.5	45	0.19	<0.01	0.2	<2	42	0.007	1.32	1.26	0.15
Penhorn Lake	Dartmouth	17-May-06	9:38	457122	4947028	1.0	3.8	14.35	10.34	7.51	446	0.9	110	<0.05	<0.01	0.2	<2	72	0.002	0.63	0.65	0.25
Porters Lake	Eastern Shore	24-May-06	9:15	477082	4948827	1.0	3.2	14.02	9.39	7.74	Ovr range	0.3	6200	<0.05	<0.01	0.5	3	ND	0.008	0.44	0.45	0.22
Powder Mill Lake	Waverley	23-May-06	12:29	451578	4958319	1.0	2.8	15.96	9.72	7.29	196	0.4	39	0.10	<0.01	0.3	<2	2	<0.002	4.54	4.76	1.12
Rocky Lake	Bedford	23-May-06	14:40	450658	4955707	1.0	2.2	16.38	10.44	8.35	318	0.5	61	0.39	0.01	0.5	<2	ND	0.003	11.62	13.04	3.20
Russell Lake	Dartmouth	15-May-06	16:41	458365	4946076	1.0	5.2	16.15	9.79	7.21	492	0.6	130	<0.05	<0.01	0.2	<2	ND	<0.002	0.94	0.89	0.13
Russell Lake (Re-test)	Dartmouth	31-May-06	10:55	458365	4946076	--	--	--	--	--	--	--	--	--	--	--	--	--	0.003	--	--	--
Sackville River	Below Fish Hatchery PS	25-May-06	15:35	447560	4953116	1.0	1.0 (disk on bottom)	16.99	12.01	6.59	96	1.1	21	0.12	<0.01	0.8	2	18	0.004	1.63	1.68	1.11
Sandy Lake	Hammonds Plains	31-May-06	8:45	444550	4953619	1.0	4.0	18.18	8.67	6.00	124	0.5	27	0.05	<0.01	0.3	<2	ND	0.002	0.56	0.62	0.60
Second Lake	Middle Sackville	18-May-06	12:04	447935	4958870	1.0	2.3	15.95	10.10	7.01	132	0.9	29	<0.05	<0.01	0.2	2	14	<0.002	1.47	1.37	0.18
Settle Lake	Dartmouth	17-May-06	12:33	459997	4947372	1.0	1.6	15.01	9.34	7.09	352	2.3	84	<0.05	<0.01	0.3	<2	180	0.020	1.92	1.95	0.62
Sheldrake Lake	Hubley	29-May-06	16:15	436834	4947274	1.0	1.2	19.88	9.36	5.22	80	1.1	18	<0.05	<0.01	0.4	4	2	0.012	12.88	12.39	2.29
Smelt Brook	Dartmouth	17-May-06	14:18	463241	4940670	1.0	1.0 (disk on bottom)	11.68	12.04	6.12	74	4.8	16	<0.05	<0.01	0.5	<2	87	0.013	2.32	2.51	1.51
Springfield Lake	Middle Sackville	16-May-06	12:21	441363	4961930	1.0	3.8	15.08	9.68	6.92	91	0.5	17	<0.05	<0.01	0.2	<2	ND	0.004	1.95	1.89	0.29
Stillwater Lake	Hubley	29-May-06	15:15	432762	4951326	1.0	2.0	17.21	9.31	5.16	52	0.5	10	<0.05	<0.002	0.3	<2	2	0.019	1.63	1.51	0.52
Third Lake	Windsor Junction	16-May-06	16:15	449844	4960215	1.0	3.8	15.00	10.60	7.32	121	0.3	26	0.05	<0.01	0.4	2	1	<0.002	3.69	3.81	0.09
Tucker Lake	Beaverbank	16-May-06	9:39	445803	4965425	1.0	3.5	16.42	9.34	6.76	180	1.3	40	0.07	<0.01	0.3	<2	5	0.004	1.63	1.55	0.17
Whimsical Lake	Mainland South	25-May-06	8:58	451640	4941575	1.0	1.6	15.31	10.02	6.85	384	1.8	82	0.3	0.02	0.5	6	7	0.002	32.98	33.45	0.47
Williams Lake	Halifax	25-May-06	9:45	452784	4940925	1.0	2.5	14.90	9.81	6.51	153	0.5	35	0.1	0.03	0.3	<2	ND	0.003	1.89	1.82	0.41
Winder Lake	North Preston	24-May-06	12:01	463721	4954881	1.0	0.3	15.71	15.86	10.81	226	7.3	39	0.14	0.02	3.5	20	3	0.36	340.09	325.00	127.10
Wrights Lake	Tantallon	29-May-06	12:16	430395	4954716	1.0	3.0	17.09	9.57	5.35	36	0.5	6	<0.05	<0.01	0.2	<2	ND	<0.002	1.39	1.28	0.43

Notes: -- Not Analysed
 ND Not Detected

- Russell Lake re-sampled for Total Phosphorus May 31, 2006
 - Nine Mile River (Timberlea) sampled June 28, 2006