

HRM Water Quality Monitoring Program Results - Summer 2008

WATER QUALITY ANALYSES
HRM LAKE SAMPLING PROGRAM

See NOTES below

LAKES

Summer 2008	Units	RDL	CCME Guideline Level	ALBRO LAKE	BARRETT LAKE	BELL LAKE	BISSETT LAKE	BLACK DUCK POND
Community				Dartmouth	Beaverbank	Dartmouth	Cole Harbour	Lakeside
Sampling Date & Time	DD/MM/YYYY 24hr time			14/08/2008 12:25	29/08/2008 10:40	27/08/2008 8:55	11/08/2008 14:00	20/08/2008 9:55
FIELD DATA								
Secchi Depth	Meters	N/A		5.0	3.5	N/A	2.5	N/A
Temp	Celsius	N/A		22.03	20.17	21.19	22.86	20.99
Dissolved Oxygen	mg/L	0.2	6-9.5	8.65	8.71	8.87	11.21	8.68
pH	pH	N/A	6.5-9.0	7.40	6.96	6.01	8.94	5.61
Specific Conductance	mS/cm	0.001		0.473	0.249	0.054	0.577	0.525
TDS	g/L	0.01		0.308	0.162	0.035	0.375	0.341
Salinity	ppt	0.01		0.23	0.12	0.02	0.28	0.25
INORGANICS								
Total Alkalinity (Total as CaCO3)	mg/L	5		12	16	ND	35	ND
Dissolved Chloride (Cl)	mg/L	5		130	57	10	140	140
Colour	TCU	5		11	25	6	23	18
Total Kjeldahl Nitrogen (TKN)	mg/L	0.1		0.4	0.3	0.3	0.7	0.3
Nitrate + Nitrite	mg/L	0.05	13000	ND	ND	ND	ND	0.07
Nitrate (N)	mg/L	0.05		ND	ND	ND	ND	0.07
Nitrite (N)	mg/L	0.01		ND	ND	ND	ND	ND
Nitrogen (Ammonia Nitrogen)	mg/L	0.05	19	ND	ND	ND	ND	ND
Total Organic Carbon (C)	mg/L	0.5		1.7	3.4	1.9	3.8	4.0
Orthophosphate (P)	mg/L	0.01		ND	ND	ND	ND	ND
pH (Lab)	pH	N/A	6.5-9.0	7.23	7.17	6.51	8.50	5.67
Total Phosphorus (1M depth)	mg/L	0.002		0.016	0.015	0.003	0.04	0.020
Total Phosphorus (Deep)	mg/L	0.002		--	--	--	--	--
Reactive Silica (SiO2)	mg/L	0.5		1.6	2.3	1.0	3.1	4.8

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Total Suspended Solids	mg/L	1	1	ND	1	2	2
Dissolved Sulphate (SO4)	mg/L	2	11	10	6	15	26
Turbidity	NTU	0.1	0.6	0.9	0.9	1.0	1.2
Conductivity	uS/cm	1	470	250	61	540	540
Calculated Parameters							
Anion Sum	me/L	N/A	4.03	2.16	0.390	5.00	4.48
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	1	11	16	ND	34	ND
Calculated TDS	mg/L	1	238	129	26	294	273
Carb. Alkalinity (calc. as CaCO3)	mg/L	1	ND	ND	ND	1	ND
Cation Sum	me/L	N/A	4.10	2.22	0.450	5.08	4.60
Hardness (CaCO3)	mg/L	1	33	28	9	54	50
Ion Balance (% Difference)	%	N/A	0.860	1.37	7.14	0.790	1.32
Langelier Index (@ 20C)	N/A	N/A	-2.06	-2.02	NC	-0.140	NC
Langelier Index (@ 4C)	N/A	N/A	-2.31	-2.27	NC	-0.390	NC
Saturation pH (@ 20C)	N/A	N/A	9.29	9.19	NC	8.64	NC
Saturation pH (@ 4C)	N/A	N/A	9.54	9.44	NC	8.89	NC
Metals (ICP-OES)							
Total Aluminum (Al)	ug/L	10	ND	32	39	13	290
Total Antimony (Sb)	ug/L	2	ND	ND	ND	ND	ND
Total Arsenic (As)	ug/L	2	ND	ND	ND	ND	ND
Total Barium (Ba)	ug/L	5	ND	20	11	17	17
Total Beryllium (Be)	ug/L	2	ND	ND	ND	ND	ND
Total Bismuth (Bi)	ug/L	2	ND	ND	ND	ND	ND
Total Boron (B)	ug/L	5	6	9	8	11	9
Total Cadmium (Cd)	ug/L	0.3	ND	ND	ND	ND	ND
Total Calcium (Ca)	mg/L	0.1	11	9.1	2.1	18	15
Total Chromium (Cr)	ug/L	2	ND	ND	ND	ND	ND
Total Cobalt (Co)	ug/L	1	ND	ND	ND	ND	3
Total Copper (Cu)	ug/L	2	ND	ND	ND	2	2
Total Iron (Fe)	ug/L	50	ND	300	70	ND	300
Total Lead (Pb)	ug/L	0.5	ND	ND	ND	ND	0.6
Total Magnesium (Mg)	mg/L	0.1	1.3	1.4	0.9	2.2	2.6
Total Manganese (Mn)	ug/L	2	67	290	42	44	290
Total Molybdenum (Mo)	ug/L	2	ND	ND	ND	ND	ND

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Total Nickel (Ni)	ug/L	2		ND	ND	ND	ND	7
Total Phosphorus (P)	mg/L	0.1		ND	ND	ND	ND	ND
Total Potassium (K)	mg/L	0.1		1	1.3	0.9	1.9	1.6
Total Selenium (Se)	ug/L	2		ND	ND	ND	ND	ND
Total Silver (Ag)	ug/L	0.5		ND	ND	ND	ND	ND
Total Sodium (Na)	mg/L	0.1		78	37	5.7	91	82
Total Strontium (Sr)	ug/L	5		46	30	10	55	69
Total Thallium (Tl)	ug/L	2		ND	ND	ND	ND	ND
Total Tin (Sn)	ug/L	2		ND	ND	ND	ND	ND
Total Titanium (Ti)	ug/L	2		ND	ND	ND	ND	ND
Total Uranium (U)	ug/L	0.1		ND	ND	ND	ND	0.2
Total Vanadium (V)	ug/L	2		ND	ND	ND	ND	ND
Total Zinc (Zn)	ug/L	5		ND	6	7	7	58
MICROBIOLOGICAL								
Fecal coliform Lake	MPN/100mL	1	200	20	45	39	7	16
Fecal coliform Outlet	MPN/100mL	1	200	130	230	170	51	--
Fecal coliform Inlet	MPN/100mL	1	200	--	--	--	--	--
Chlorophyll A - Acidification method	ug/L	N/A		1.84	1.84	1.43	13.96	1.70
Chlorophyll a - Welschmeyer method	ug/L	N/A		2.05	1.81	1.54	15.96	1.74

Notes:

-- Not Analysed

NC Not Calculable

ND Not Detected

N/A Not Applicable

MPN Most Probable Number

RDL Reportable Detection Limit

ug Micrograms

mg Milligrams

L Litre

Russell Lake - sampled by JWL for Clayton Developments; North Inlet data shown

Morris Lake - sampled by JWL for HRM

CCME - Canadian Council of Ministers of Environment Guidelines for the Protection of Aquatic Life

Fecal Coliform Guideline: for Contact Recreation

Dissolved Oxygen Guideline: lowest acceptable level depending on temperature and life stage

Bacterial level of concern for swimming (≥ 200 but < 400)

Bacterial level unsuitable for swimming (≥ 400)

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BLACK POINT LAKE	CHOCOLATE LAKE	CRANBERRY LAKE	DENT'S PUNCH BOWL	DE SAID LAKE	DRAIN LAKE	DUCK LAKE	FENERTY LAKE	FIRST CHAIN LAKE
Hubley	Mainland South	Dartmouth	Cowie Hill	Dartmouth	Middle Sackville	Beaverbank	Beaverbank	Halifax
20/08/2008 12:15	25/08/2008 11:00	27/08/2008 10:40	04/09/2008 11:55	11/08/2008 12:20	15/08/2008 11:10	29/08/2008 11:30	02/09/2008 14:00	25/08/2008 11:30
1.0	3.5	1.2	N/A	N/A	N/A	1.0	1.5	N/A
21.77	22.34	20.90	18.80	23.74	20.77	19.67	19.53	22.47
7.95	9.34	7.87	8.65	9.07	8.38	7.23	9.78	9.16
5.07	5.15	7.03	7.02	7.59	6.61	6.91	6.78	4.60
0.174	0.669	0.490	0.845	0.116	0.260	0.328	0.076	0.551
0.113	0.435	0.318	0.551	0.075	0.169	0.213	0.050	0.358
0.08	0.33	0.24	0.42	0.05	0.12	0.16	0.03	0.27
ND	ND	36	62	22	8	32	ND	ND
48	180	120	210	19	66	72	16	150
100	ND	18	21	23	32	29	59	ND
0.3	0.1	0.7	0.6	0.4	1.0	0.6	0.4	ND
ND	ND	ND	0.06	ND	0.06	ND	ND	ND
ND	ND	ND	0.06	ND	0.06	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
8.5	ND	3.6	5.1	3.6	5.8	4.8	7.1	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
5.42	5.36	7.32	7.46	7.63	6.77	7.13	6.51	4.78
0.014	0.007	0.032	0.022	ND	0.071	0.025	0.030	0.009
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1.7	3.7	1.5	2.9	3.6	2.1	3.6	1.5	2.5

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2	ND	3	2	ND	15	4	3	ND
ND	37	10	22	3	12	9	4	17
0.7	0.4	2.2	1.1	0.8	9.9	2.1	1.4	0.2
180	670	490	850	110	250	330	78	550
1.37	5.78	4.34	7.63	1.04	2.27	2.85	0.540	4.68
ND	ND	36	62	22	8	31	ND	ND
84	351	249	443	63	136	172	36	276
ND	ND	ND	ND	ND	ND	ND	ND	ND
1.51	5.93	4.25	7.67	1.13	2.29	3.07	0.670	4.56
13	48	48	92	26	22	41	11	23
4.86	1.28	1.05	0.260	4.15	0.440	3.72	10.7	1.30
NC	NC	-1.34	-0.692	-1.43	-2.85	-1.62	NC	NC
NC	NC	-1.59	-0.940	-1.68	-3.10	-1.87	NC	NC
NC	NC	8.66	8.15	9.06	9.62	8.75	NC	NC
NC	NC	8.91	8.40	9.31	9.87	9.00	NC	NC
190	290	18	15	23	210	22	130	640
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	4	ND	ND	ND	ND	ND
40	40	24	62	10	9	23	8	33
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
5	9	10	32	13	11	11	8	5
ND	ND	ND	ND	ND	ND	ND	ND	ND
3.6	15	15	33	8.3	6.6	13	3.0	7.2
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	5	ND	ND	ND	ND	ND	ND	2
ND	ND	ND	ND	ND	ND	ND	ND	ND
500	200	130	300	250	580	600	350	200
0.8	1.2	ND	ND	ND	0.8	ND	0.7	1.8
0.9	2.2	2.2	2.4	1.3	1.4	1.8	0.8	1.2
54	200	400	210	75	140	270	76	110
ND	ND	ND	3	ND	ND	ND	ND	ND

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ND	11	ND	ND	ND	2	ND	ND	4
ND	ND	ND	ND	ND	ND	ND	ND	ND
0.8	1.5	1.7	2.9	0.6	1.3	1.6	0.8	0.7
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
28	110	75	130	14	41	50	9.9	93
18	72	54	150	34	26	42	14	39
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	4	ND	ND	ND
0.1	ND	ND	0.1	ND	ND	ND	ND	ND
ND	ND	ND	4	ND	ND	ND	ND	ND
11	35	7	8	9	9	ND	7	23
12	2	1600	610	2	--	260	46	93
ND	2	4800	--	2	--	25	46	--
--	--	--	--	--	470	--	--	--
2.61	0.12	28.17	17.00	1.47	26.66	17.38	13.15	0.09
2.95	0.11	26.19	17.06	1.40	31.25	17.22	13.65	0.09

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FIRST LAKE	FLETCHERS LAKE	FRENCHMAN LAKE	FROG POND	GOVERNOR'S LAKE	GRAND LAKE	HALF MILE LAKE	HUBLEY BIG LAKE	KEARNEY LAKE
Lower Sackville	Fall River	Burnside	Halifax	Timberlea	Enfield	Timberlea	Hubley	Bedford
02/09/2008 12:05	07/08/2008 11:25	14/08/2008 13:50	25/08/2008 13:05	20/08/2008 10:40	07/08/2008 10:05	18/08/2008 14:15	26/08/2008 9:40	04/09/2008 13:10
1.5	2.3	N/A	2.6	2.0	4.1	1.0	1.8	4.0
20.14	22.05	21.47	23.25	21.50	21.64	22.50	22.50	19.96
9.10	7.98	8.59	8.35	9.30	8.40	7.08	8.83	9.83
7.19	6.54	7.23	6.87	6.19	6.32	6.08	4.88	7.19
0.540	0.163	0.437	0.478	0.668	0.101	0.385	0.076	0.314
0.351	0.106	0.284	0.311	0.434	0.066	0.249	0.050	0.204
0.26	0.08	0.21	0.23	0.33	0.05	0.18	0.03	0.15
30	10	13	29	5	5	9	ND	6
140	37	110	120	180	20	100	19	80
9	21	79	45	30	19	77	46	14
0.3	0.2	0.5	0.4	0.4	0.2	0.8	0.4	0.3
ND	0.09	ND	ND	ND	0.09	0.12	ND	0.15
ND		ND	ND	ND		0.12	ND	0.15
ND		ND	ND	ND		ND	ND	ND
ND	ND	ND	ND	0.06	ND	0.07	ND	ND
2.2	3.5	7.7	6.3	4.2	2.6	6.4	4.2	1.9
ND	ND	ND	ND	ND	ND	ND	ND	ND
7.51	7.10	7.10	7.35	6.77	7.25	6.86	5.66	6.79
0.021	0.005	0.024	0.017	0.018	ND	0.030	0.018	0.008
0.015	--	--	0.031	--	ND	--	--	0.01
0.6	1.6	1.7	1.6	2.8	1.0	4.1	0.6	2.5

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ND	1	5	1	3	1	4	1	ND
16	7	12	19	20	8	9	2	14
2.2	1.1	2.6	0.7	1.8	0.4	4.8	0.9	0.1
550	160	410	480	680	98	390	80	320
4.76	1.38	3.73	4.27	5.75	0.840	3.30	0.590	2.66
30	10	13	29	5	5	9	ND	6
277	82	224	253	347	52	200	36	162
ND	ND	ND	ND	ND	ND	ND	ND	ND
4.79	1.37	3.95	4.40	6.06	0.870	3.44	0.630	2.78
52	19	32	48	47	16	27	6	29
0.310	0.360	2.86	1.50	2.62	1.75	2.08	3.28	2.21
-1.19	-2.46	-2.15	-1.38	-2.76	-2.64	-2.66	NC	-2.86
-1.44	-2.71	-2.40	-1.63	-3.01	-2.89	-2.91	NC	-3.11
8.70	9.56	9.25	8.73	9.53	9.89	9.52	NC	9.65
8.95	9.81	9.50	8.98	9.78	10.1	9.77	NC	9.90
21	--	83	36	110	--	230	160	53
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	ND	--	ND	ND	ND
27	--	13	26	45	--	47	11	17
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	ND	--	ND	ND	ND
8	--	6	17	8	--	10	5	7
ND	--	ND	ND	ND	--	ND	ND	ND
18	6.1	10	16	15	5.1	7.9	1.4	9.3
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	ND	--	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	0.08	280	160	260	0.03	1000	190	ND
ND	--	0.9	ND	ND	--	1.6	0.6	ND
2.0	0.9	1.5	1.7	2.2	0.7	1.7	0.5	1.5
240	0.08	66	76	140	ND	130	42	26
ND	--	ND	ND	ND	--	ND	ND	ND

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ND	--	ND	ND	ND	--	ND	ND	3
ND	--	ND	ND	ND	--	ND	ND	ND
1.7	1.1	1.4	1.8	1.6	0.8	1.4	0.6	1.1
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	ND	--	ND	ND	ND
85	22	75	78	120	12	65	11	50
52	--	46	67	69	--	39	9	46
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	ND	--	ND	ND	ND
ND	--	ND	ND	2	--	5	ND	ND
ND	--	ND	ND	0.2	--	0.6	0.2	ND
ND	--	4	ND	ND	--	ND	ND	ND
6	ND	7	5	20	ND	7	7	13
66	1600	160	180	10	34	77	ND	8
120	1900	36	610	66	--	160	2	7
--	--	--	--	--	--	--	--	--
19.83	3.60	4.81	3.88	12.12	3.14	6.18	3.39	0.92
19.08	3.31	5.43	3.92	12.45	3.19	7.20	3.47	0.98

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KIDSTON LAKE	KINSAC LAKE	LAKE BANOOK	LAKE CHARLES	LAKE ECHO	LAKE MICMAC	LAKE THOMAS NORTH BASIN	LAKE THOMAS SOUTH BASIN	LAKE WILLIAM
Spryfield	Fall River	Dartmouth	Dartmouth	Eastern Shore	Dartmouth	Waverley	Waverley	Waverley
19/08/2008 13:40	28/08/2008 12:45	13/08/2008 7:35	28/08/2008 10:40	03/09/2008 10:40	13/08/2008 8:15	07/08/2008 14:05	07/08/2008 13:45	28/08/2008 11:30
N/A	2.3	3.1	7.0	1.1	4.5	2.9	4.5	3.2
22.78	21.15	22.30	21.27	18.95	21.98	22.60	22.25	21.11
8.84	9.09	7.64	9.43	9.40	8.14	8.27	8.43	9.64
6.02	6.78	7.20	7.02	4.99	7.49	6.92	6.92	7.16
0.048	0.085	0.738	0.267	0.038	0.685	0.165	0.188	0.186
0.031	0.055	0.479	0.174	0.025	0.446	0.107	0.122	0.121
0.02	0.04	0.36	0.13	0.02	0.33	0.08	0.09	0.09
9	8	30	19	ND	32	9	12	14
5	18	190	60	5	180	37	42	41
77	40	7	8	130	8	16	14	21
0.4	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.4
ND	ND	0.08	0.26	ND	0.11	0.06	0.07	ND
ND	ND	0.08	0.26	ND	0.11			ND
ND	ND	ND	ND	ND	ND			ND
ND	ND	0.06	ND	ND	ND	ND	ND	ND
9.2	5.6	1.9	2.1	10	1.9	2.5	2.1	3.1
ND	ND	ND	ND	ND	ND	ND	ND	ND
7.04	6.66	7.45	7.31	5.22	7.53	7.09	7.22	7.21
0.011	0.013	0.009	0.009	0.015	0.008	0.003	0.003	0.011
--	--	0.009	0.010	--	0.011	--	0.003	0.010
1.0	1.1	2.1	2.5	2.5	1.7	1.2	1.9	2.0

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1	1	ND	ND	2	ND	1	ND	1
ND	6	20	12	4	20	7	8	10
0.5	0.7	0.8	0.3	0.7	0.6	1.2	0.6	0.6
49	87	740	270	38	680	160	180	190
0.330	0.780	6.34	2.34	0.240	6.02	1.37	1.59	1.66
9	8	30	19	ND	32	9	12	14
22	46	372	140	20	348	83	96	100
ND	ND	ND	ND	ND	ND	ND	ND	ND
0.490	0.760	6.40	2.38	0.350	5.86	1.45	1.67	1.73
14	12	64	33	7	64	19	23	25
19.5	1.30	0.470	0.850	18.6	1.35	2.84	2.45	2.06
-2.63	-3.19	-1.18	-1.74	NC	-1.05	-2.48	-2.16	-2.08
-2.88	-3.44	-1.43	-1.99	NC	-1.30	-2.73	-2.41	-2.33
9.67	9.85	8.63	9.05	NC	8.58	9.57	9.38	9.29
9.92	10.1	8.88	9.30	NC	8.83	9.82	9.63	9.54
180	55	ND	18	330	14	--	--	29
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	5	16	ND	5	--	--	3
ND	11	19	9	ND	18	--	--	10
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
7	7	9	7	5	8	--	--	7
ND	ND	ND	ND	ND	ND	--	--	ND
4.4	3.6	22	11	2.0	22	6.3	7.7	8.2
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
360	94	ND	ND	480	ND	0.06	0.03	ND
0.6	ND	ND	ND	0.6	ND	--	--	ND
0.7	0.8	2.3	1.5	0.5	2.3	0.9	1.0	1.1
12	29	120	32	54	510	0.06	0.02	15
ND	ND	ND	ND	ND	ND	--	--	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
0.7	0.8	2.2	1.6	0.4	2	1.1	1.3	1.4
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
4.3	11	120	39	4.0	100	24	27	28
16	14	85	42	8	87	--	--	30
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	ND	2	ND	--	--	ND
ND	ND	ND	ND	0.1	ND	--	--	ND
ND	ND	ND	ND	ND	ND	--	--	ND
ND	ND	ND	5	9	ND	ND	ND	ND
5	9	110	12	32	150	1200	470	10
31	--	490	100	35	--	1600	--	15
--	--	--	--	--	--	--	--	--
2.68	5.37	1.23	0.75	3.01	1.05	4.01	2.89	5.77
3.15	5.84	1.32	0.79	2.92	1.15	4.15	2.95	6.11

HRM Water Quality Monitoring Program Results - Summer 2008

LITTLE ALBRO LAKE	LONG LAKE	LONG POND	LOON LAKE	LOVETT LAKE	MAYNARD LAKE	McCABE LAKE	MCINTOSH RUN at Mouth	MCINTOSH RUN at Roaches Pond
Dartmouth	Mainland South	Herring Cove	Dartmouth	Lakeside	Dartmouth	Lucasville	Herring Cove	Roaches Pond
14/08/2008 13:05	26/08/2008 11:20	26/08/2008 13:20	27/08/2008 12:20	20/08/2008 9:40	13/08/2008 12:40	06/08/2008 14:20	26/08/2008 13:55	26/08/2008 12:30
N/A	1.6	0.7	2.5	N/A	9.3	2.2	N/A	N/A
22.12	21.97	22.62	21.50	21.24	22.36	21.62	23.40	22.51
9.01	9.01	7.71	9.55	9.02	8.25	7.74	8.84	8.36
7.32	5.79	5.65	7.31	6.31	7.11	5.83	5.93	5.85
0.463	0.337	0.086	0.374	0.669	0.359	0.068	0.244	0.327
0.301	0.219	0.056	0.243	0.434	0.233	0.044	0.159	0.213
0.22	0.16	0.04	0.18	0.33	0.17	0.03	0.12	0.16
14	ND	ND	17	7	19	ND	ND	ND
120	91	19	96	180	85	14	63	87
10	62	260	9	14	9	46	110	64
0.4	0.3	0.7	0.5	0.3	0.3	0.5	0.4	0.5
ND	0.06	0.05	ND	0.06	ND	ND	0.12	0.17
ND	0.06	0.05	ND	0.06	ND	ND	0.12	0.17
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
2.5	6.4	17	1.7	3.2	2.1	6.0	10	7.0
ND	ND	ND	ND	ND	ND	ND	ND	ND
7.22	5.97	5.90	7.44	6.99	7.34	6.53	6.19	6.24
0.023	0.013	0.025	0.015	0.011	0.009	0.005	0.017	0.019
--	--	0.038	--	--	0.016	0.005	--	--
1.2	2.9	3.7	1.7	3.7	0.9	1.0	3.5	3.0

HRM Water Quality Monitoring Program Results - Summer 2008

2	12	1	ND	1	ND	2	1	ND
10	10	ND	11	27	12	2	7	10
0.8	0.7	0.6	0.9	1.3	0.6	0.9	0.5	0.8
440	340	87	380	680	360	66	240	320
3.86	2.79	0.550	3.28	5.80	3.01	0.460	1.93	2.68
14	ND	ND	17	7	19	ND	ND	ND
233	167	42	189	346	179	31	122	166
ND	ND	ND	ND	ND	ND	ND	ND	ND
4.20	2.78	0.830	3.14	5.85	3.16	0.590	2.15	2.90
35	21	10	31	57	34	8	18	24
4.22	0.180	20.3	2.18	0.430	2.43	12.4	5.39	3.94
-1.96	NC	NC	-1.71	-2.31	-1.73	NC	NC	NC
-2.21	NC	NC	-1.96	-2.56	-1.98	NC	NC	NC
9.18	NC	NC	9.15	9.30	9.07	NC	NC	NC
9.43	NC	NC	9.40	9.55	9.32	NC	NC	NC
21	200	550	24	100	14	110	270	180
ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND
9	14	7	8	44	16	5	12	17
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
6	7	9	8	11	9	8	8	8
ND	ND	ND	ND	ND	ND	ND	ND	ND
12	6.5	2.8	10	18	11	2.3	5.5	7.3
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
87	170	790	ND	160	ND	200	400	300
ND	0.5	1.5	ND	ND	ND	ND	0.6	1.4
1.2	1.1	0.8	1.4	2.8	1.7	0.7	1.1	1.3
20	49	48	55	200	120	47	20	31
ND	ND	ND	ND	ND	ND	ND	ND	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	ND	ND	ND	3	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
0.9	1.0	0.6	1.4	1.9	1.4	0.6	0.8	1.1
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
80	54	13	57	110	56	9.2	40	55
51	30	16	37	80	41	12	26	34
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	4	ND	ND	ND	ND	ND	ND
ND	0.1	0.1	ND	0.5	ND	ND	0.2	0.1
ND	ND	3	ND	ND	ND	ND	ND	ND
7	12	10	ND	22	ND	8	7	14
160	2	13	220	14	220	31	87	190
36	13	20	450	--	14	26	--	--
--	--	--	--	--	--	--	--	--
1.03	2.11	2.39	3.52	3.76	0.91	5.21	4.94	1.15
1.17	2.20	2.48	3.73	4.00	0.98	5.65	5.00	1.62

HRM Water Quality Monitoring Program Results - Summer 2008

MOODY LAKE	MORRIS LAKE (North Basin)	MORRIS LAKE (South Basin)	NINE MILE RIVER AT HWY 103	NINE MILE RIVER AT MOUTH	OATHILL LAKE	PAPER MILL LAKE	PENHORN LAKE	POWDER MILL LAKE
Williamswood	Dartmouth	Dartmouth	Timberlea	Shad Bay	Dartmouth	Bedford	Dartmouth	Waverley
19/08/2008 12:25	13/08/2008 13:45	13/08/2008 11:05	18/08/2008 12:40	18/08/2008 11:35	13/08/2008 11:40	03/09/2008 12:30	13/08/2008 10:35	28/08/2008 9:25
				Sampled at high falling tide				
0.65	2.0	3.5	N/A	N/A	2.5	3.5	3.7	3.6
22.23	22.58	22.15	21.80	21.28	21.90	19.35	22.03	21.22
8.07	8.01	0.82	7.51	9.15	9.07	9.34	8.22	9.01
4.94	7.54	7.55	5.98	5.40	7.33	6.16	7.92	6.99
0.051	0.368	0.362	0.219	1.030	0.505	0.298	0.666	0.237
0.033	0.239	0.235	0.143	0.671	0.328	0.194	0.433	0.154
0.02	--	--	0.10	0.51	0.24	0.14	0.32	0.11
ND	--	--	5	ND	35	8	26	19
8	97	96	56	230	120	72	170	51
190	--	--	64	160	22	16	9	15
0.5	0.5	0.4	0.6	0.5	0.4	0.3	0.4	0.4
ND	--	--	0.50	0.05	0.07	0.12	ND	ND
ND	0.06	ND	0.49	0.05	0.07	0.12	ND	ND
0.13	ND	ND	0.02	ND	ND	ND	ND	ND
ND	--	--	0.11	ND	ND	ND	ND	ND
16	--	--	7.1	17	3.7	2.8	2.0	2.9
ND	--	--	0.03	ND	ND	ND	ND	ND
5.48	--	--	6.52	5.61	7.57	6.70	7.43	7.27
0.016	0.013	0.014	0.063	0.019	0.016	0.007	0.012	0.008
--	--	--	--	--	0.12	--	--	0.007
2.4	--	--	2.1	3.2	2.2	2.5	1.4	1.3

HRM Water Quality Monitoring Program Results - Summer 2008

2	2	0.7	2	4	3	ND	1	ND
ND	--	--	9	37	16	13	14	10
1.2	1.5	0.7	1.1	1.1	1.2	0.6	1.0	0.6
54	--	--	220	850	500	300	650	240
0.230	--	--	1.89	7.33	4.45	2.46	5.70	2.04
ND	--	--	5	ND	35	8	26	19
21	--	--	117	434	263	150	339	123
ND	--	--	ND	ND	ND	ND	ND	ND
0.490	--	--	1.98	7.48	4.64	2.58	6.01	2.20
9	--	--	20	74	58	27	53	33
36.1	--	--	2.33	1.01	2.09	2.38	2.65	3.77
NC	--	--	-3.32	NC	-1.02	-2.86	-1.33	-1.75
NC	--	--	-3.57	NC	-1.27	-3.11	-1.58	-2.00
NC	--	--	9.84	NC	8.59	9.56	8.76	9.02
NC	--	--	10.1	NC	8.84	9.81	9.01	9.27
530	--	--	250	400	22	42	ND	12
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	5
6	--	--	22	13	35	15	34	14
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
15	--	--	13	57	13	7	7	8
ND	--	--	ND	ND	ND	ND	ND	ND
2.4	--	--	6.4	7.0	19	8.5	18	11
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
710	--	--	280	420	61	130	ND	ND
1.4	--	--	ND	0.8	ND	ND	ND	ND
0.6	--	--	1.0	14	2.7	1.3	1.8	1.3
46	--	--	45	31	190	94	91	37
ND	--	--	ND	ND	ND	ND	ND	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
0.7	--	--	1.4	5.1	2.1	1.1	1.2	2.1
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
6.3	--	--	35	130	79	46	110	34
11	--	--	27	95	65	41	59	38
ND	--	--	ND	ND	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
7	--	--	ND	4	ND	ND	ND	ND
0.3	--	--	0.3	0.4	ND	ND	ND	ND
ND	--	--	ND	ND	ND	ND	ND	ND
12	--	--	8	7	ND	7	ND	6
4	93	46	1500	51	570	23	1300	23
8	--	100	--	--	3700	--	140	19
--	460	--	--	--	--	--	--	--
1.22	5.56	3.40	2.47	8.47	14.08	1.47	1.48	3.32
1.29	5.88	3.58	2.60	9.87	15.95	1.33	1.58	3.42

HRM Water Quality Monitoring Program Results - Summer 2008

RED BRIDGE POND	ROCKY LAKE	RUSSELL LAKE	SACKVILLE RIVER at Hwy 102 (Bacteria only)	SACKVILLE RIVER at Mouth	SANDY LAKE BEDFORD	SANDY LAKE GLEN ARBOUR	SECOND LAKE	SETTLE LAKE
Dartmouth	Bedford	Dartmouth	Below Hwy 102	Below Fish Hatchery PS	Bedford	Glen Arbour	Middle Sackville	Dartmouth
13/08/2008 9:25	28/08/2008 14:30	06/08/2008 0:00	06/08/2008 8:27	28/08/2008 8:45	03/09/2008 13:35	15/08/2008 7:50	02/09/2008 11:10	27/08/2008 9:40
N/A	1.5	1.75	--	N/A	2.0	2.8	4.5	1.0
20.76	20.91	21.9	--	18.51	19.58	21.13	19.69	20.92
10.31	8.61	8.0	--	9.76	9.64	7.13	9.70	9.99
9.31	6.94	6.8	--	7.03	6.42	6.51	7.15	6.55
0.359	0.384	1.514	--	0.151	0.167	0.053	0.163	0.544
0.234	0.250	--	--	0.098	0.109	0.034	0.106	0.353
0.17	0.18	--	--	0.07	0.08	0.02	0.08	0.26
33	44	28	--	12	6	6	12	35
80	75	220	--	31	40	7	38	140
22	19	15	--	71	39	11	20	22
0.5	0.6	--	--	0.5	0.4	0.4	0.2	0.6
ND	0.25	ND	--	0.08	ND	ND	ND	ND
ND	0.24	--	--	0.08	ND	ND	ND	ND
ND	0.01	--	--	ND	ND	ND	ND	ND
ND	ND	ND	--	ND	ND	ND	ND	ND
2.4	3.8	2.4	--	7.8	5.3	4.0	3.6	5.5
ND	ND	ND	--	ND	ND	ND	ND	ND
9.08	7.50	7.4	--	6.97	6.52	6.99	7.13	7.64
0.025	0.018	0.007	--	0.015	0.011	0.032	0.013	0.019
--	0.015	--	--	--	0.015	0.058	0.015	0.10
1.4	3.9	2.6	--	2.6	2.6	1.3	0.7	1.5

HRM Water Quality Monitoring Program Results - Summer 2008

3	2	2	--	ND	1	3	2	7
12	18	23	--	9	9	5	5	13
3.3	1.4	1.7	--	1.5	1.0	1.5	0.3	6.1
360	390	780	--	150	170	50	170	550
3.17	3.38	--	--	1.29	1.44	0.420	1.41	4.80
29	44	27	--	12	6	6	12	35
190	208	434	--	78	88	28	82	281
3	ND	ND	--	ND	ND	ND	ND	ND
3.47	3.77	--	--	1.28	1.45	0.490	1.44	4.90
48	66	64	--	19	16	11	20	52
4.52	5.45	--	--	0.390	0.350	7.69	1.05	1.03
0.380	-0.874	--	--	-2.51	-3.33	-3.04	-2.31	-1.00
0.130	-1.12	--	--	-2.76	-3.58	-3.29	-2.56	-1.25
8.70	8.37	--	--	9.48	9.85	10.0	9.44	8.64
8.95	8.62	--	--	9.73	10.1	10.3	9.69	8.89
37	10	--	--	170	77	21	20	48
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
22	31	--	--	13	15	ND	11	18
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
10	13	--	--	11	7	8	9	10
ND	ND	--	--	ND	ND	ND	ND	ND
17	23	22	--	5.8	4.8	3.0	6.4	17
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
730	ND	--	--	510	290	97	68	250
1.0	ND	--	--	ND	ND	ND	ND	ND
1.6	1.9	2.2	--	1.1	1.0	0.9	1.0	2.4
38	210	--	--	90	36	90	36	230
ND	ND	--	--	ND	ND	ND	ND	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
0.8	5.8	2.4	--	1.1	1.2	1.2	1.0	1.8
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
57	53	140	--	20	25	5.3	23	88
60	75	--	--	25	21	13	22	54
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	2	ND	ND	ND	ND
ND	0.1	--	--	ND	ND	ND	ND	ND
ND	ND	--	--	ND	ND	ND	ND	ND
ND	6	--	--	7	7	ND	6	6
3200	47	440	380	--	18	77	7	770
360	--	930	--	150	21	140	61	> 10,000
--	--	830	--	--	--	--	--	--
6.69	12.61	--	--	1.85	10.56	6.97	2.44	7.35
7.71	13.00	3.47	--	2.01	10.29	8.39	2.45	9.46

HRM Water Quality Monitoring Program Results - Summer 2008

SHELDRAKE LAKE	SMELT BROOK	SPRINGFIELD LAKE	STILLWATER LAKE	THE MILL POND (THREE MILE POND)	THIRD LAKE	TUCKER LAKE	UPPER PORTERS LAKE	WHIMSICAL LAKE
Hubley	Dartmouth	Middle Sackville	Upper Tantallon	Timberlea	Windsor Junction	Beaverbank	Porters Lake	Mainland South
20/08/2008 13:15	11/08/2008 11:25	15/08/2008 10:00	18/08/2008 9:40	18/08/2008 13:40	28/08/2008 13:35	29/08/2008 9:50	03/09/2008 9:25	25/08/2008 12:20
1.0	N/A	2.7	3.2	N/A	3.5	3.5	1.3	1.8
21.33	17.96	21.14	21.61	23.60	21.26	20.68	19.06	22.85
8.24	8.54	8.16	8.52	8.69	9.41	9.38	9.40	9.40
4.86	7.05	6.54	5.74	5.66	6.86	7.26	5.45	6.36
0.224	0.207	0.114	0.062	0.080	0.142	0.206	0.528	0.465
0.146	0.134	0.074	0.040	0.053	0.092	0.134	0.343	0.302
0.11	0.10	0.05	0.03	0.04	0.07	0.10	0.26	0.22
ND	40	6	ND	ND	12	18	ND	32
60	27	24	14	20	30	43	140	110
80	110	12	37	81	12	15	110	19
0.6	0.6	0.3	0.3	0.4	0.5	0.3	0.5	0.4
ND	0.14	ND	ND	ND	ND	ND	ND	ND
ND	0.05	ND	ND	ND	ND	ND	ND	ND
ND	0.09	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
6.8	11	3.2	5.4	7.6	3.0	3.5	9.4	4.3
ND	ND	ND	ND	ND	ND	ND	ND	ND
5.23	7.07	6.89	6.12	6.05	7.09	7.41	5.38	7.45
0.024	ND	0.023	0.009	0.016	0.012	0.014	0.015	0.018
0.069	--	--	0.041	--	0.013	0.011	0.012	--
2.2	5.2	0.9	1.1	1.0	0.7	0.8	2.4	1.8

HRM Water Quality Monitoring Program Results - Summer 2008

2	ND	2	ND	ND	ND	ND	2	4
5	20	9	2	3	7	10	22	27
1.2	1.4	0.8	0.7	0.6	0.5	0.7	1.2	1.8
230	190	110	63	84	140	200	520	460
1.80	1.98	0.980	0.450	0.610	1.25	1.79	4.38	4.20
ND	40	6	ND	ND	12	18	ND	32
111	119	59	30	40	73	107	260	248
ND	ND	ND	ND	ND	ND	ND	ND	ND
1.95	2.05	0.990	0.550	0.750	1.26	1.91	4.53	4.25
19	59	18	7	9	20	32	47	56
4.00	1.74	0.510	10.0	10.3	0.400	3.24	1.68	0.590
NC	-1.40	-2.91	NC	NC	-2.33	-1.66	NC	-1.17
NC	-1.65	-3.16	NC	NC	-2.58	-1.91	NC	-1.42
NC	8.47	9.80	NC	NC	9.42	9.07	NC	8.62
NC	8.72	10.0	NC	NC	9.67	9.32	NC	8.87
250	120	34	160	210	11	18	290	33
ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND
37	12	8	6	14	13	16	7	27
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
8	12	6	6	8	10	9	36	18
ND	ND	ND	ND	ND	ND	ND	ND	ND
5.0	19	5.3	1.6	2.4	6.4	10	3.8	19
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
750	450	84	170	210	ND	ND	290	ND
0.9	0.6	ND	ND	ND	ND	ND	ND	ND
1.5	2.7	1.2	0.6	0.7	1	1.5	9.1	2.1
160	240	31	57	30	22	20	49	96
ND	ND	ND	ND	ND	ND	ND	ND	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1	1.6	1.1	0.7	1.0	1.1	1.5	3.2	2.1
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
35	19	14	9.2	12	19	28	80	71
31	67	20	10	13	23	32	60	82
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	2	ND	ND	ND	ND	ND	ND	ND
0.3	ND	ND	ND	0.2	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
16	10	ND	8	6	5	6	10	ND
9	18	33	8	170	33	36	26	400
9	--	14	24	--	72	30	--	230
--	--	--	--	--	--	--	--	--
4.86	0.18	3.59	1.38	3.20	3.99	2.13	0.94	5.95
5.51	0.20	3.84	1.32	3.07	4.17	2.09	0.92	6.24

HRM Water Quality Monitoring Program Results - Summer 2008

WHYNDER (WINDER) LAKE	WILLIAMS LAKE
North Preston	Halifax
04/09/2008 9:35	25/08/2008 14:15
1.4	4.0
18.37	23.42
7.73	9.34
6.41	6.85
0.205	0.290
0.134	0.189
0.10	0.14
24	ND
36	74
47	11
1.6	0.2
0.35	ND
0.30	ND
0.05	ND
0.53	ND
6.4	2.7
0.02	ND
6.99	6.67
0.088	0.010
--	0.009
1.5	0.9

HRM Water Quality Monitoring Program Results - Summer 2008

4	ND
16	16
0.7	0.4
210	300
1.86	2.41
24	ND
112	146
ND	ND
1.86	2.46
25	23
0	1.03
-2.08	NC
-2.33	NC
9.07	NC
9.32	NC
56	39
ND	ND
ND	ND
12	12
ND	ND
ND	ND
47	7
ND	ND
8.1	7.2
ND	ND
ND	ND
2	ND
130	50
ND	ND
1.1	1.2
85	12
ND	ND

HRM Water Quality Monitoring Program Results - Summer 2008

ND	ND
ND	ND
3.1	1.0
ND	ND
ND	ND
29	45
36	37
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
13	10
ND	4
2	13
--	--
13.45	1.65
15.14	1.67