kefront Association Water Sampling 2005

/05	May 18/05	June 1/05	June 16/05	June 29/05	July 13/05	July 27/05	Aug. 10/05	Aug 24/05	Sept 7/05	Sept 22/05	Oct 5/05	Oct 19/05	Nov 2/05	Nov16/05	Percentage of samples Recreation Limit (100 cfu/100ml)	1000
20	10	70	No sample	No sample	No sample	No sample	No sample	No sample	No sample	No Sample	No Sample	No Sample	No Sample	No Sample	25%	
20	No sample	30	350	290	30	7700	400	320	2100	430	150	60	90	3200	60%	
30	290	300	1000	20	80	50	10	110	70	<10	700	10	13000	7500	50%	
20	50	280	1800	69	3600	900	200	80	12000	720	140	20	370	460	69%	
160	1100	390	2800	6100	290	6000	300	10	40	30	480	170	4800	4100	75%	
<10	50	1400	640	180	190	3800	>20000	2000	270	240	570	210	270	5000	88%	
20	560	1200	3400	120	120	190	3000	490	1600	120	5500	290	290	2700	94%	
<10	20	50	190	120	230	160	400	220	230	180	100	80	100	600	56%	
100	10	40	560	510	60	560	370	380	90	20	160	80	90	11000	50%	
10	30	70	740	110	<10	790	2000	10	50	40	210	20	140	960	50%	
sample	120	100	720	250	330	480	5000	30	130	160	210	50	130	5000	80%	
sample	<10	30	170	20	130	100	150	50	50	100	70	80	<10	750	27%	

Exceeds recreation limit (100 cfu/100ml) but less than 1000
Exceeds limit for recreation by 10x
Microbiologists often consider an order of magnitude (10 fold) as a significant difference

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6.1	3.9	2.1	No sample	No sample	No sample	No sample	No sample	No sample	No sample	No Sample	No Sample	No Sample	No Sample	No Sample	75%	
4.1	No sample	2.6	3.4	0.7	1.1	<.2	<.2	1.70	<.2	0.50	8.70	3.70	1.70	6.40	40%	
4.0	0.5	<0.1	8.5	0.1	<.2	<.2	<.2	<.2	<.2	0.30	0.40	<.2	2.90	10.00	19%	
5.1	4.1	3.3	6.2	1.4	1.9	1.4	0.60	2.70	1.00	0.90	3.30	1.60	2.80	7.10	44%	
6.1	3.9	0.7	6.6	<0.1	<.2	0.5	<.2	<.2	<.2	<.2	3.1	0.7	5.50	11.00	44%	
5.9	<0.1	0.8	1.6	0.5	<.2	<.2	<.2	1.70	<.2	<.2	0.60	<.2	<.1	9.40	19%	
5.7	2.1	<0.1	6.7	0.7	<.2	<.2	<.2	<.2	<.2	<.2	2.70	<.2	0.20	12.00	19%	
5.6	1.5	1.4	1.7	1.0	1.8	1.2	0.70	2.40	1.00	1.00	0.90	1.20	1.40	3.30	13%	
3.7	2.7	2.8	2.2	0.9	1.0	0.3	<.2	1.80	0.30	<.2	3.30	<.2	0.30	13.00	25%	
4.3	2.5	0.6	1.8	0.2	<.2	0.8	<.2	1.70	<.2	0.20	4.30	0.30	0.50	10.00	19%	
1.8	4.7	4.7	5.0	3.3	3.6	3.4	2.80	4.30	3.10	3.10	6.40	4.30	3.70	12.00	88%	
4.7	4.1	2.2	1.0	0.9	1.0	0.9	<.2	4.50	<.2	0.20	4.80	2.00	2.10	6.50	38%	

Exceeds MVCA target for healthy fish and amphibian eggs 2.9 mg/L of nitrate as N (Proposed Canadadian Aquatic Objective is 2.9 mg/L of nitrate as N)

OUS P (mg/l)

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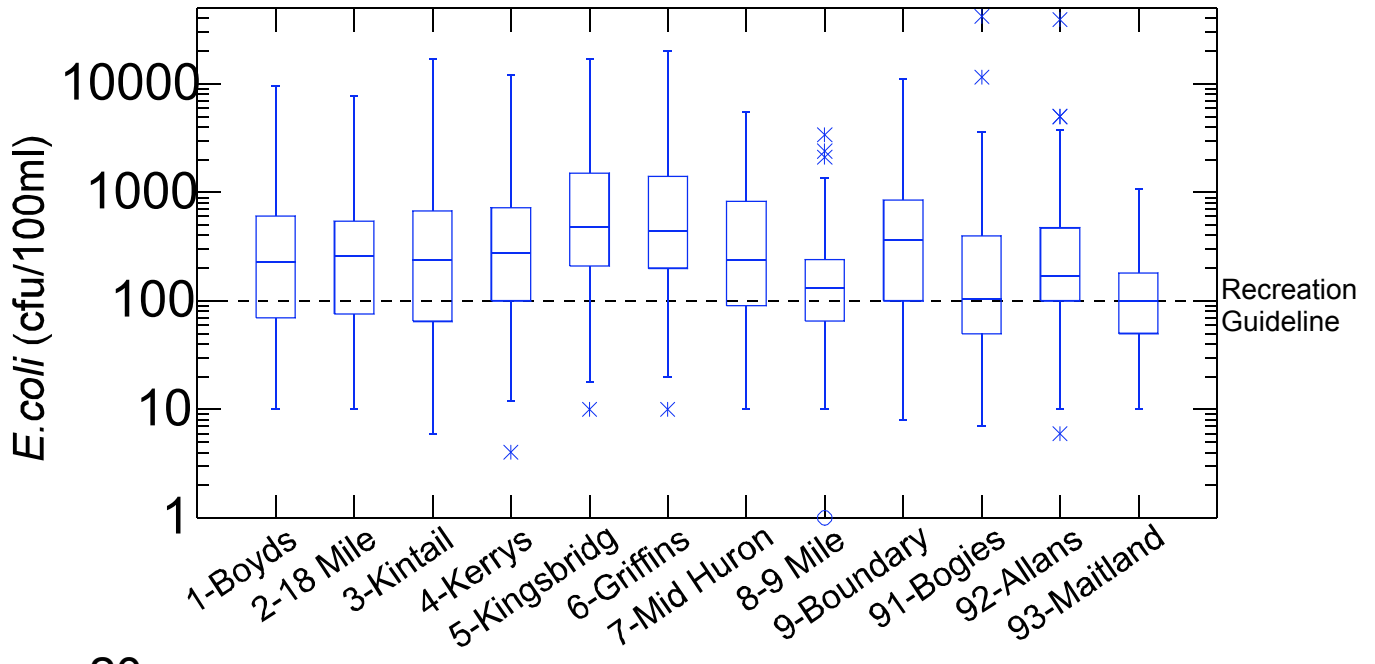
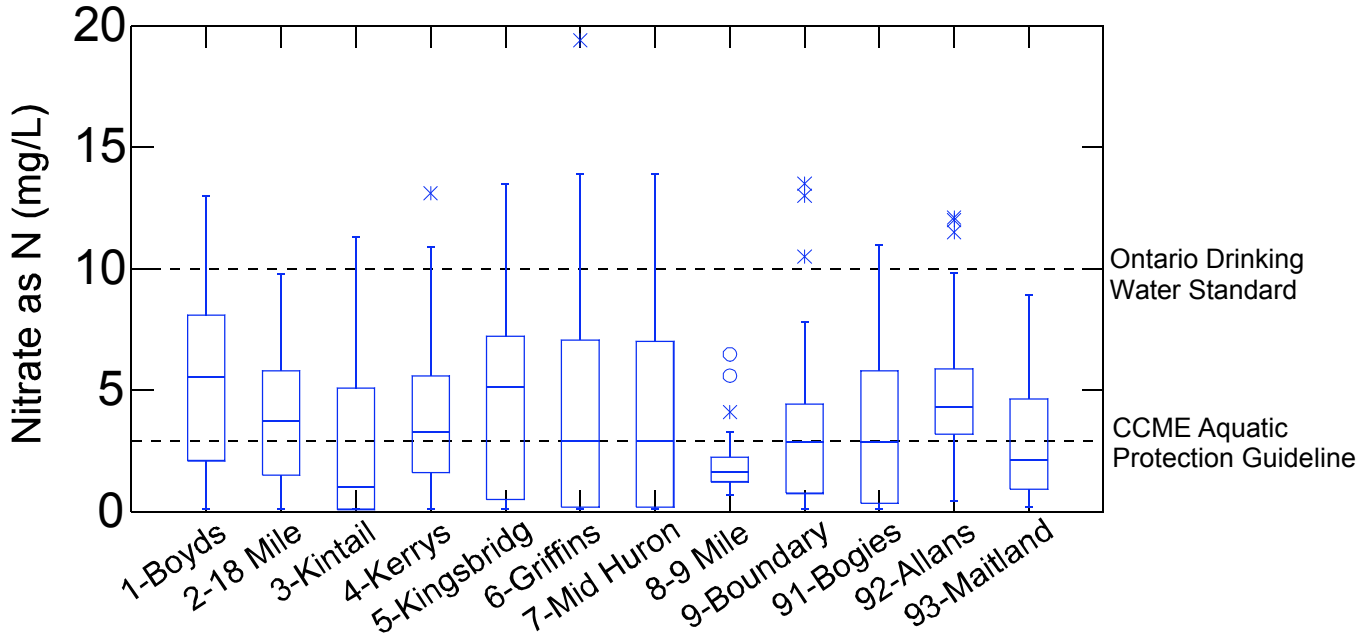
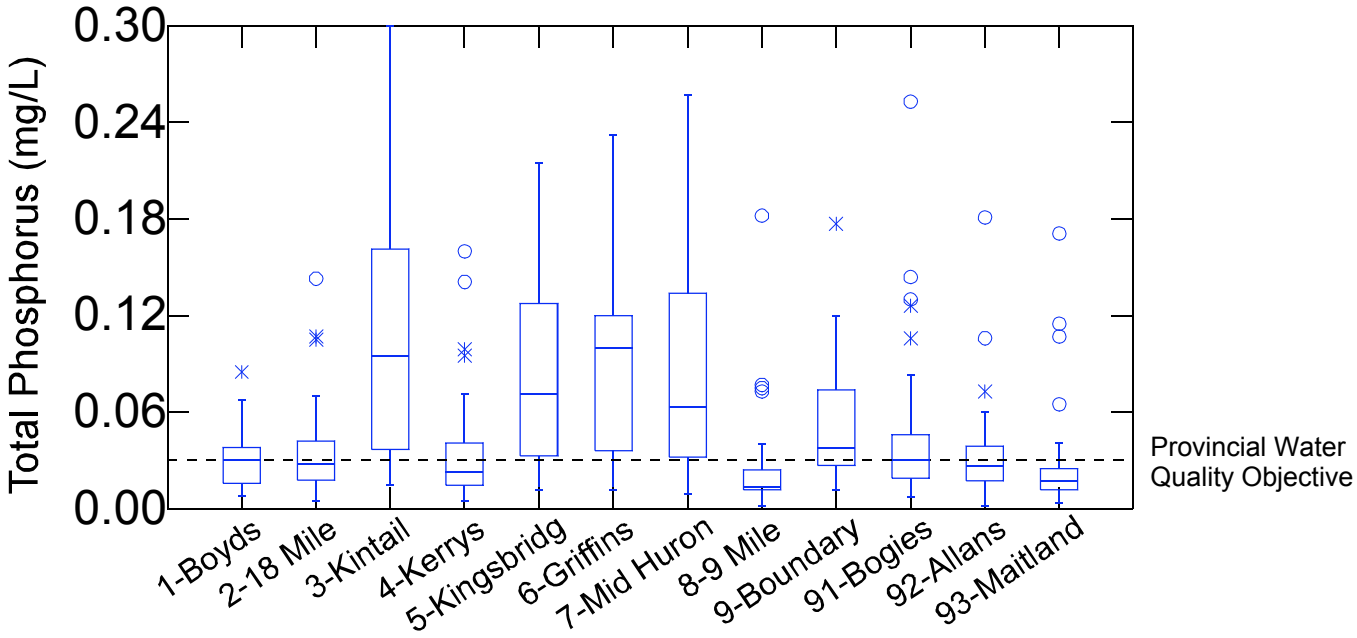
.013	0.011	0.011	No sample	No sample	No sample	No sample	No sample	No sample	No sample	No Sample	No Sample	No Sample	No Sample	No Sample	0%
.018	No sample	0.005	0.042	0.028	0.025	0.070	0.022	0.018	0.044	<.02	0.051	0.015	0.029	0.105	33%
.021	0.028	0.032	0.057	0.040	0.179	0.315	0.225	0.303	0.330	0.300	0.091	0.048	0.174	0.176	88%
.019	0.008	0.027	0.031	0.028	0.026	0.042	0.033	0.017	0.360	<.02	0.031	0.009	0.025	0.095	44%
.021	0.014	0.026	0.109	0.101	0.131	0.320	0.166	0.062	0.144	0.150	0.048	0.034	0.051	0.124	81%
.028	0.012	0.016	0.109	0.090	0.230	0.172	0.188	0.147	0.327	0.380	0.106	0.080	0.039	0.179	81%
.019	0.015	0.032	0.032	0.040	0.301	0.124	0.134	0.360	0.721	0.720	0.257	0.156	0.167	0.234	81%
.017	0.014	0.013	0.024	0.024	0.014	0.182	0.031	0.024	0.038	<.02	0.013	0.005	0.014	0.073	25%
.012	0.016	0.014	0.091	0.177	0.064	0.110	0.035	0.074	0.066	0.120	0.043	0.033	0.027	0.344	69%
.010	0.126	0.020	0.040	0.106	0.083	0.130	0.046	0.041	0.055	0.030	0.050	0.025	0.016	0.144	63%
.019	0.049	0.006	0.042	0.031	0.028	0.073	0.029	0.026	0.030	0.020	0.034	0.003	0.016	0.181	44%
.004	0.015	0.012	0.021	0.018	0.034	0.041	0.014	0.028	0.038	<.02	0.014	0.011	0.015	0.115	25%

Exceeds MVCA target to avoid excessive algae growth of 0.03 mg/L Total Phosphorus as P (Interim Prov. Water Quality Objective for streams and rivers is 0.03 mg/L)


E.coli (cfu/100ml)
10000
1000
100
10
1
Recreation Guideline
1-Boyds
2-18 Mile
3-Kintail
4-Kerrys
5-Kingsbridg
6-Griffins
7-Mid Huron
8-9 Mile
9-Boundary
91-Bogies
92-Allans
93-Maitland


Nitrate as N (mg/L)
20
15
10
5
0
Ontario Drinking Water Standard
CCME Aquatic Protection Guideline
1-Boyds
2-18 Mile
3-Kintail
4-Kerrys
5-Kingsbridg
6-Griffins
7-Mid Huron
8-9 Mile
9-Boundary
91-Bogies
92-Allans
93-Maitland


Total Phosphorus (mg/L)
0.30
0.24
0.18
0.12
0.06
0.00
Provincial Water Quality Objective
1-Boyds
2-18 Mile
3-Kintail
4-Kerrys
5-Kingsbridg
6-Griffins
7-Mid Huron
8-9 Mile
9-Boundary
91-Bogies
92-Allans
93-Maitland