Clear Lake Water Tests 2016

			Phosphorus Concentration					
Year	Site	Sample Date	(ug/l)		Total Coliforms	Ecoli	Secchi Depth	
			Sample 1	Sample 2	(cfu's per 100 ml)	(cfu's per 100 ml)	(metres)	Water Temp.
2016	CLR-0	23-May	5.3	5.5			5.15	16
20.0	CLR-2	Spring Turnover	5.9	5.9			00	16
	CLR-4	readings	5.9	6.2				16
	CLR-5		5.0	5.8				17
	CLR-7			g only at Site 7				17
2016	CLR-0 CLR-2	25-Jun	5.3	5.8			6	24
	CLR-2		8.1	7.7	62	0		24
	CLR-4		5.3	5.5	22	0		24.5
	CLR-5		6.4	6.3	22	3		24
	CLR-7				49	22		24
0010				4.5			0.45	0.5
2016	CLR-0 CLR-2	31-Jul	4.7 4.3	4.5 5.8	55	11	6.45	25 25
	CLR-2 CLR-4		4.3	4.2	62	11 8		25
	CLR-4 CLR-5		6.4	6.3	151	0		25
	CLR-7		0.4	0.5	28	3		25
	CLR-7				20	3		25
2016	CLR-0	26-Aug					6.35	25
2010	CLR-2	20-Aug			22	0	0.00	25
	CLR-4				127	3		24
	CLR-5				141	3 5		24
	CLR-7				33	0		25
	OLIV				33	U		20
2016 Annual	CLR-0	Average		.2				22.5
2016 Annual	CLR-2	Average	6	.3	46.3	3.7		22.5
2016 Annual	CLR-4	Average		.2	70.3	3.7		22.1
2016 Annual	CLR-5	Average		.0	104.7	2.7		22.5
2016 Annual	CLR-7	Average		-	36.7	8.3		22.8
2016 Annual	All Sites	Average All Sites	5	.7	64.5	4.6	6	22.5
		<u> </u>		shold (4.79)				

Phosphorus samples at CLR-0 are taken at secchi depth. Phosphorus samples at all other sites are taken near surface

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	Site Location								
CLR-0	Middle of lake (deep water test)			Coliform	l l	E. Coli			
CLR-2	NW end of lake (Big Bay/Resort area)		Ontario Standard	< 1,000 counts/10	0 ml < 100	counts/100 ml			
CLR-4	Camp Pine Crest end of lake		MLA Standard	< 100 counts/10	0 ml < 10	counts/100 ml			
CLR-5	Little Bay area (Ridge Rd./Little Bay Rd)		* Phosphorus Threshold is 4.79 ug/l as per District of Muskoka Official Plan						
CLR-7	Clear Lake Rd. (near 1104-1106 area)		CFU stands for colony forming unit						

PHOSPHORUS SOURCES

Up to 75% occurs naturally, remainder is human influence ie. detergents, fertilizers, phosphorus leaching from septics

TOTAL COLIFORM BACTERIA

Total coliform bacteria are a group of bacteria found in high numbers in both human and animal intestinal wastes and therefore are found in water that has been contaminated with fecal material.

Unfortunately, bacteria with the biochemical characteristics of total coliforms are also found in non-contaminated water. Thus, in the absence of fecal coliforms, the presence of total coliforms may indicate older fecal contamination or the presence of decaying organic matter. Although the total coliform bacteria group is a less reliable indicator of sewage contamination, because of its superior survival characteristics, it is preferred as an indicator of treatment adequacy in drinking water supply systems

For Drinking water coliform count must be 0.

FECAL COLIFORMS (E. COLI)

Fecal coliform bacteria are a subset of the total coliform bacterial group and also are found in human and animal intestinal wastes. However, they are a more precise indicator of the presence of sewage contamination than total coliforms. The fecal coliform bacteria group includes the genera Escherichia and, to a lesser extent, Klebsiella and Enterobacter. For Drinking water E. Coli count must be 0