

Library Reference 7.6.4

Comparison of South and North data, September 22, 2009.

Parameter	Units	Upper Mixed Layer		Lower Water Layer	
		South	North	South	North
Secchi Disc Depth	meters	2.6	*2.6		
pH	Std Units	*7.94	*8.02	*7.287	*7.34
Temperature	°C	*19.62	*19.867	*13.827	*13.963
Specific conductance	umHos/cm	*1903.333	*1896.667	*2080.667	*2072.333
Dissolved oxygen	mg/L	*7.507	*8.07	*0.13	*0.213
5-day BOD	mg/L	<2	<2	5.0	3.0
Total Alkalinity	mg/L	160	160	210	200
Total Organic Carbon	mg/L	*3.405	*3.54	*3.005	*2.925
TOC Filtered	mg/L	*3.115	*3.14	*2.78	*2.735
Total Inorganic Carbon	mg/L	*40.5	*40.4	*56.1	*55.3
Total Kjeldahl Nitrogen	mg/L	*0.617	*0.63	*1.488	*1.399
TKN Filtered	mg/L	*0.547	*0.462	*1.348	*1.282
Organic Nitrogen	mg/L	*0.535	*0.555	*0.314	*0.355
Ammonia-N	mg/L	*0.082	*0.075	*1.174	*1.044
Nitrite-N	mg/L	0.028	0.027	<0.010	<0.010
Nitrate-N	mg/L	2.06	1.81	0.352	0.77
Total Phosphorus	mg/L	*0.013	*0.012	*0.321	*0.256
Soluble Reactive Phosphorus	mg/L	*0.001	*0.001	*0.186	*0.244
Silica (dissolved)	mg/L	*3.005	*2.47	*6.79	*6.63
Calcium	mg/L	139	143	140	143
Sodium	mg/L	239	236	261	268
Potassium	mg/L	4.38	4.44	3.94	3.93
Sulfate	mg/L	152	147	129	144
Chloride	mg/L	421	417	464	475
Total Solids	mg/L	*1232	*1234	*1340	*1342
Total Volatile Solids	mg/L	NA	NA	NA	NA
Total Suspended Solids	mg/L	*2	*2	*2	*2
Volatile Suspended Solids	mg/L	NA	NA	NA	NA
Total Dissolved Solids	mg/L	*1158	*1170	*1278	*1261
Turbidity	NTU	*1.845	*1.28		
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Iron	mg/L	0.0503	<0.0400	0.158	0.12
Copper	mg/L	0.0031	0.0028	0.003	<0.0025
Chromium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Cadmium	mg/L	<0.0008	<0.0008	<0.0008	<0.0008
Mercury	ng/l	NA	NA	NA	NA
Methyl mercury	ng/l	NA	NA	NA	NA
Lead	mg/L	<0.002	<0.002	<0.002	<0.002
Magnesium	mg/L	24.4	24.8	23.2	24
Manganese	mg/L	<0.0200	<0.0200	1	0.657
Nickel	mg/L	<0.0038	<0.0038	<0.0038	<0.0038
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Zinc	mg/L	<0.0050	0.0067	<0.0050	0.0068
Phaeophytin-a	mg/m3	1.17	0.59		
Chlorophyll-a	mg/m3	4.81	4.27		
Fecal Coliforms	count/100	8	5		
E. Coli	count/100	1	19		

Notes: * indicates the data were averaged over several depths: UML = 0m, 3m and 6m; LWL = 12m, 15m, 18m

The averages are based on concentration data, and are not volume-averages. Phaeophytin-a and Chlorophyll-a were collected as Tube Composites. Averages were calculated using the laboratory reported limit of detection when an observation was reported at below that limit. NA: Not Analyzed.

Ultra low-level mercury and methyl mercury data were collected on August 25, 2009.