

Library Reference 7.6.2

Comparison of South and North data, April 9, 2009.

Parameter	Units	Upper Mixed Layer		Lower Water Layer	
		South	North	South	North
Secchi Disc Depth	meters	2.1	*2.6		
pH	Std Units	*7.753	*7.773	*7.747	*7.737
Temperature	°C	*5.347	*5.507	*5.323	*5.287
Specific conductance	umHos/cm	*1823.667	*1827.333	*1823.333	*1845
Dissolved oxygen	mg/L	*12.273	*11.64	*12.463	*10.99
5-day BOD	mg/L	<2	<2	<2	<2
Total Alkalinity	mg/L	180	180	180	180
Total Organic Carbon	mg/L	*2.775	*2.745	*2.785	*3.135
TOC Filtered	mg/L	*2.675	*2.675	*2.65	*2.66
Total Inorganic Carbon	mg/L	*48.2	*48.3	*48.35	*48.2
Total Kjeldahl Nitrogen	mg/L	*0.613	*0.64	*0.633	*0.577
TKN Filtered	mg/L	*0.457	*0.493	*0.497	*0.44
Organic Nitrogen	mg/L	*0.396	*0.417	*0.423	*0.375
Ammonia-N	mg/L	*0.217	*0.223	*0.21	*0.202
Nitrite-N	mg/L	0.02	0.02	0.02	0.02
Nitrate-N	mg/L	2.06	2.06	2.03	2.05
Total Phosphorus	mg/L	*0.022	*0.02	*0.021	*0.017
Soluble Reactive Phosphorus	mg/L	*0.001	*0.001	*0.001	*0.001
Silica (dissolved)	mg/L	*3.95	*3.85	*3.95	*3.93
Calcium	mg/L	123	124	125	122
Sodium	mg/L	225	232	226	226
Potassium	mg/L	3.88	3.92	3.94	3.92
Sulfate	mg/L	118	121	116	120
Chloride	mg/L	386	388	415	394
Total Solids	mg/L	*1094	*1083	*1092	*1087
Total Volatile Solids	mg/L	*131	*127	*130	*125
Total Suspended Solids	mg/L	*6	*4.5	*5.5	*5.5
Volatile Suspended Solids	mg/L	*4	*4	*4	*4
Total Dissolved Solids	mg/L	*1023	*1028	*1032	*1045
Turbidity	NTU	*5.225	*4.51		
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Iron	mg/L	0.144	0.12	0.152	0.119
Copper	mg/L	<0.0025	<0.0025	<0.0025	<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	2.31	2.50	2.82	2.82
Methyl mercury	ng/l	NA	NA	NA	NA
Lead	mg/L	<0.002	<0.002	<0.002	<0.002
Magnesium	mg/L	22	22.1	22.2	22.1
Manganese	mg/L	<0.0200	<0.0200	<0.0200	<0.0200
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	0.0081	0.0077	0.0086	0.0075
Phaeophytin-a	mg/m3	<0.2	0.69		
Chlorophyll-a	mg/m3	5.87	6.41		
Fecal Coliforms	count/100	30	5		
E. Coli	count/100	31	4		

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 or below that limit. NA: Not Analyzed.

Ultra low-level mercury and methyl mercury data were collected on April 21, 2009.