

Lake Charlotte

(Approximate maximum depth: 44.3 m)

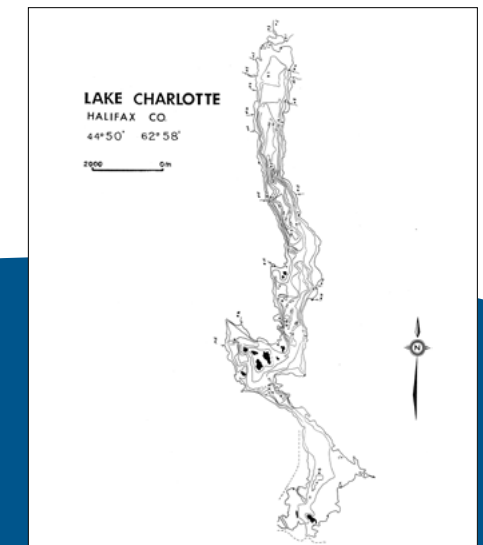
LAKE CHARLOTTE, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Consultant	Consultant	Consultant	Consultant
Date	May 17	August 25	April 27	August 17	May 8	August 29
Secchi Depth	1.9 m	2.5 m	1.8 m	1.7 m	2.0 m	1.7 m
Surface pH	6.64	5.72	5.60	5.69	5.34	6.06
Surface SpC	0.0359 ms/cm	0.0361 ms/cm	0.0417 ms/cm	0.0397 ms/cm	0.0344 ms/cm	0.0350 ms/cm
Surface Temp	11.2 °C	23.8 °C	7.4 °C	22.8 °C	9.7 °C	22.5 °C
Surface DO	10.48 mg/L	8.16 mg/L	12.32 mg/L	8.00 mg/L	11.32 mg/L	8.35 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		8.5 m		9.5 m		10 m
Anoxic Layer Thickness (from lakebed at deepest location)		n/a		n/a		n/a
Strength of evidence for Internal Loading		Moderate		None		None
Estimated Trophic Status (based on summer Chl- α)		Mesotrophic		Oligotrophic		Oligotrophic
Deepwater Chloride	4.5 mg/L	4.0 mg/L	4.5 mg/L	4.6 mg/L	3.4 mg/L	4.5 mg/L
E. coli Outlet/Surface (CFU/100ml)	4 / ND	4 / 2	ND / ND	2 / ND	Not Collected	4 / ND

*ND = 'non-detect' for E.coli, indicating less than 2 CFU / 100 ml



Satellite Imagery Map of Lake Charlotte w/ Sampling Locations



Bathymetry Map of Lake Charlotte

halifax.ca/lakewatchers

HalifACT Acting on Climate Together

LakeWatchers