

Settle Lake

(Approximate maximum depth: 7.9 m)

DARTMOUTH, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

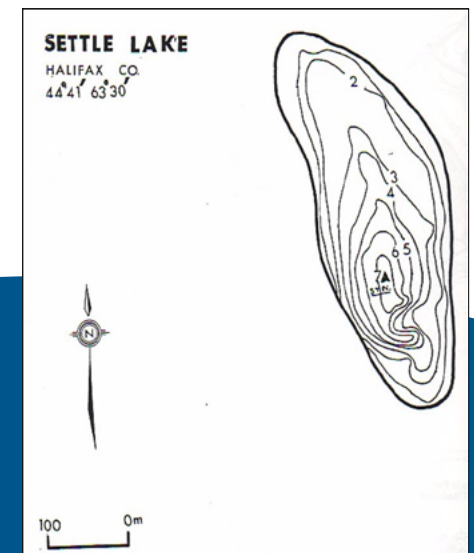
Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Consultant	Volunteer	Volunteer	Volunteer
Date	May 5	August 12	April 18	August 15	May 12	September 11
Secchi Depth	4.6 m	2.4 m	4.0 m	2.0 m	2.3 m	3.7 m
Surface pH	6.37	7.06	6.87	8.78	7.61	7.22
Surface SpC	0.3648 ms/cm	0.5185 ms/cm	0.5100 ms/cm	0.2419 ms/cm	0.4021 ms/cm	0.4103 ms/cm
Surface Temp	11.18 °C	23.7 °C	10.0 °C	22.8 °C	11.7 °C	20.7 °C
Surface DO	14.58 mg/L	7.12 mg/L	11.17 mg/L	9.44 mg/L	10.70 mg/L	8.19 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		4.5 m		6.5 m		6 m
Anoxic Layer Thickness (from lakebed at deepest location)		3.9 m (49%)		3.9 m (49%)		1.9 m (24%)
Strength of evidence for Internal Loading		Very Strong		None		Very Strong
Estimated Trophic Status (based on summer Chl- α)		Mesotrophic		Hyper-eutrophic		Meso-eutrophic
Deepwater Chloride	150 mg/L	130 mg/L	110 mg/L	57 mg/L	100 mg/L	110 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / ND	34 / 64	54 / ND	48 / 28	Not Collected	150 / 18

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

halifax.ca/lakewatchers



Satellite Imagery Map of Settle Lake w/ Sampling Locations



Bathymetry Map of Settle Lake