

Kearney Lake

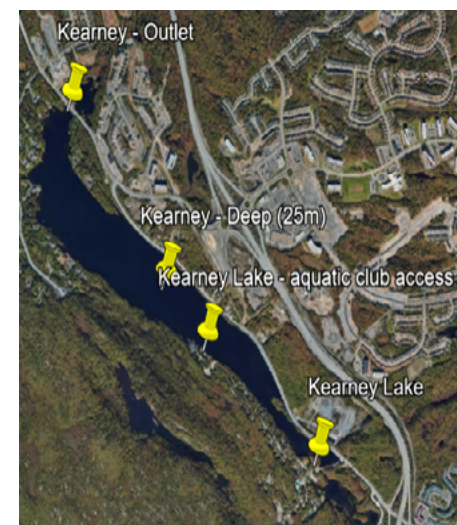
(Approximate maximum depth: 27.5 m)

BEDFORD, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

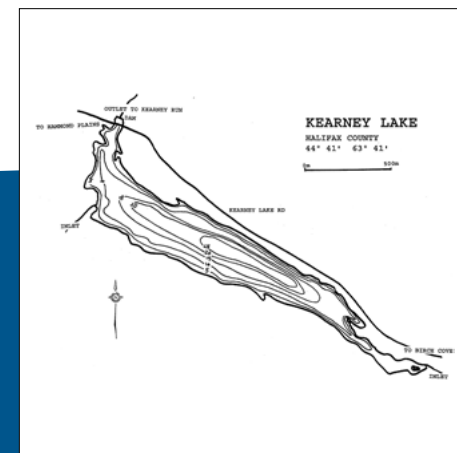
Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Volunteer	Volunteer	Volunteer	Volunteer
Date	May 4	August 18	April 24	August 29	May 6	August 29
Secchi Depth	2.9 m	3.4 m	2.5 m	3.0 m	2.8 m	3.6 m
Surface pH	7.46	6.89	7.10	6.83	6.72	7.05
Surface SpC	0.2732 ms/cm	0.2829 ms/cm	0.2344 ms/cm	0.1332 ms/cm	0.1924 ms/cm	0.2306 ms/cm
Surface Temp	10.5 °C	23.4 °C	9.9 °C	21.5 °C	9.4 °C	22.5 °C
Surface DO	11.11 mg/L	8.49 mg/L	10.65 mg/L	6.77 mg/L	11.37 mg/L	7.68 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		5 m		6 m		6 m
Anoxic Layer Thickness (from lakebed at deepest location)		n/a		n/a		n/a
Strength of evidence for Internal Loading		None		Weak		None
Estimated Trophic Status (based on summer Chl- α)		Oligotrophic		Oligotrophic		Oligotrophic
Deepwater Chloride	67 mg/L	67 mg/L	60 mg/L	58 mg/L	51 mg/L	53 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / ND	4 / 2	ND / ND	8 / 4	Not Collected	8 / 4

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

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Satellite Imagery Map of Kearney Lake w/ Sampling Locations



Bathymetry Map of Kearney Lake