

Petpeswick Lake

(Approximate maximum depth: 22.6 m)

GAETZ BROOK, 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 16	August 30	May 3	August 22	May 2	August 23
Secchi Depth	5.1 m	6.0 m	4.0 m	3.9 m	3.2 m	4.5 m
Surface pH	8.52	6.79	6.08	6.74	6.69	7.40
Surface SpC	0.0641 ms/cm	0.0641 ms/cm	0.0630 ms/cm	0.0592 ms/cm	0.0564 ms/cm	0.0600 ms/cm
Surface Temp	13.2 °C	24.1 °C	9.1 °C	22.3 °C	8.9 °C	23.4 °C
Surface DO	10.34 mg/L	8.40 mg/L	11.77 mg/L	8.45 mg/L	11.43 mg/L	8.37 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		8.5 m		7.5 m		7 m
Anoxic Layer Thickness (from lakebed at deepest location)		n/a		4.6 m (20%)		n/a
Strength of evidence for Internal Loading		Weak		Moderate		Moderate
Estimated Trophic Status (based on summer Chl- α)		Oligotrophic		Oligotrophic		Oligotrophic
Deepwater Chloride	14 mg/L	13 mg/L	13 mg/L	13 mg/L	12 mg/L	12 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / ND	20 / 2	ND / ND	4 / ND	Not Collected	6 / 4

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

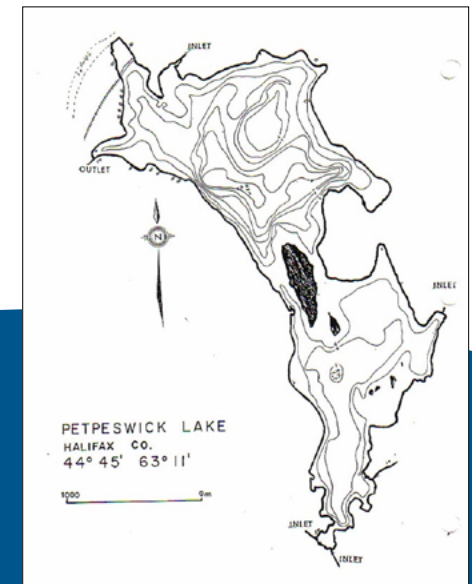
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Climate
Together

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Satellite Imagery Map of Petpeswick Lake w/ Sampling Locations



Bathymetry Map of Petpeswick Lake