

Russell Lake

(Approximate maximum depth: 8.8 m)

PORTLAND ESTATES, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

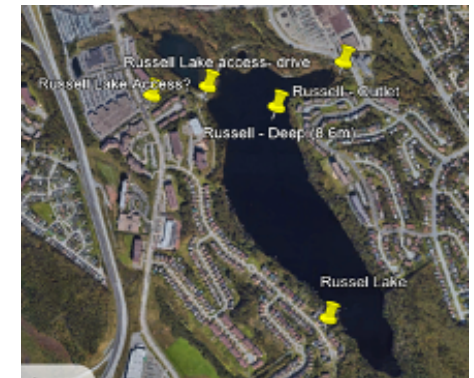
Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Volunteer	Volunteer	Volunteer	Volunteer	Consultant
Date	April 28	September 5	May 11	September 7	May 29	September 6
Secchi Depth	4.7 m	3.4 m	4.1 m	Not Collected	Not Collected	2.0 m
Surface pH	6.81	7.44	7.83	7.59	7.87	7.36
Surface SpC	0.7200 ms/cm	0.5128 ms/cm	0.8030 ms/cm	0.4250 ms/cm	0.6300 ms/cm	0.6700 ms/cm
Surface Temp	14.8 °C	23.2 °C	13.8 °C	21.4 °C	19.2 °C	21.3 °C
Surface DO	9.77 mg/L	7.56 mg/L	10.54 mg/L	8.71 mg/L	10.32 mg/L	7.22 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		6 m		6.5 m		7 m
Anoxic Layer Thickness (from lakebed at deepest location)		2.8 m (32%)		1.8 m (20%)		n/a
Strength of evidence for Internal Loading		Very Strong		None		None
Estimated Trophic Status (based on summer Chl- α)		Mesoeutrophic		Oligotrophic		Mesotrophic
Deepwater Chloride	220 mg/L	180 mg/L	190 mg/L	170 mg/L	160 mg/L	150 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / 10	42 / 2	2 / ND	30 / 12	Not Collected	20 / 330

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

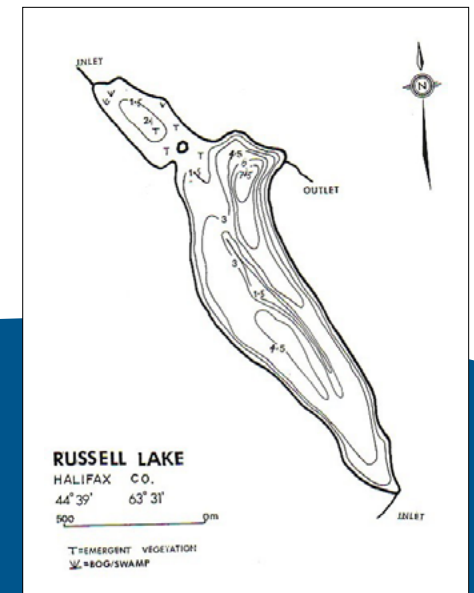
halifax.ca/lakewatchers

HalifACT Acting on
Climate
Together

LakeWatchers



Satellite Imagery of Russell Lake
w/ Sampling Locations



Bathymetry Map of Russell Lake