

Oat Hill Lake

(Approximate maximum depth: 8.9 m)

DARTMOUTH, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

| Parameter | Spring 22 | Summer 22 | Spring 23 | Summer 23 | Spring 24 | Summer 24 |
|---|--------------|--------------|--------------|--------------|----------------|----------------|
| Team | Consultant | Volunteer | Volunteer | Volunteer | Volunteer | Volunteer |
| Date | April 28 | August 28 | April 23 | August 28 | April 21 | August 11 |
| Secchi Depth | 4.7 m | 4.7 m | 5.3 m | 2.6 m | 4.8 m | 3.6 m |
| Surface pH | 7.73 | 7.12 | 7.75 | 7.42 | 7.51 | 7.30 |
| Surface SpC | 0.6600 ms/cm | 0.6170 ms/cm | 0.7280 ms/cm | 0.3722 ms/cm | 0.6440 ms/cm | 0.6330 ms/cm |
| Surface Temp | 9.2 °C | 24.1 °C | 10.8 °C | 21.1 °C | 9.9 °C | 23.3 °C |
| Surface DO | 11.08 mg/L | 6.86 mg/L | 11.2 mg/L | 7.0 mg/L | 11.4 mg/L | 6.3 mg/L |
| Summer Stratified? | | Yes | | Yes | | Yes |
| Thermocline Depth (from lake surface) | | 5.5 m | | 6 m | | 6 m |
| Anoxic Layer Thickness (from lakebed at deepest location) | | 2.9 m (33%) | | 2.9 m (33%) | | 2.9 m (33%) |
| Strength of evidence for Internal Loading | | Moderate | | Moderate | | Very Strong |
| Estimated Trophic Status (based on summer Chl- α) | | Mesotrophic | | Mesotrophic | | Meso-eutrophic |
| Deepwater Chloride | 190 mg/L | 160 mg/L | 180 mg/L | 170 mg/L | 180 mg/L | 180 mg/L |
| E. coli Outlet/Surface (CFU/100ml) | 10 / ND | 6 / 10 | ND / ND | 12 / 14 | Not Collect-ed | 10 / 16 |

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

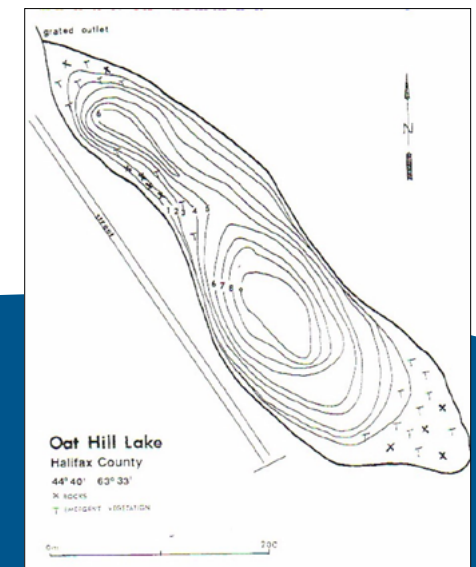
halifax.ca/lakewatchers

HalifACT Acting on Climate Together

LakeWatchers



Satellite Imagery Map of Oat Hill Lake w/ Sampling Locations



Bathymetry Map of Oat Hill Lake