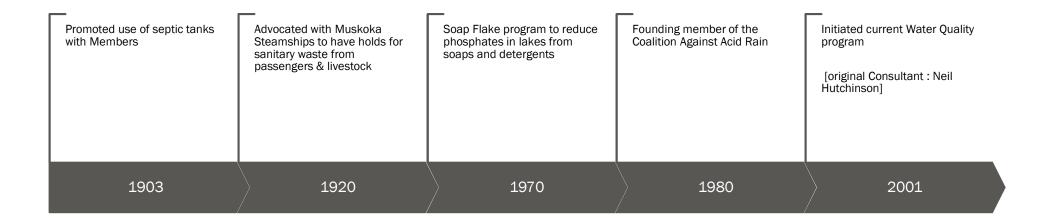


DEDICATED TO ENVIRONMENTAL PRESERVATION

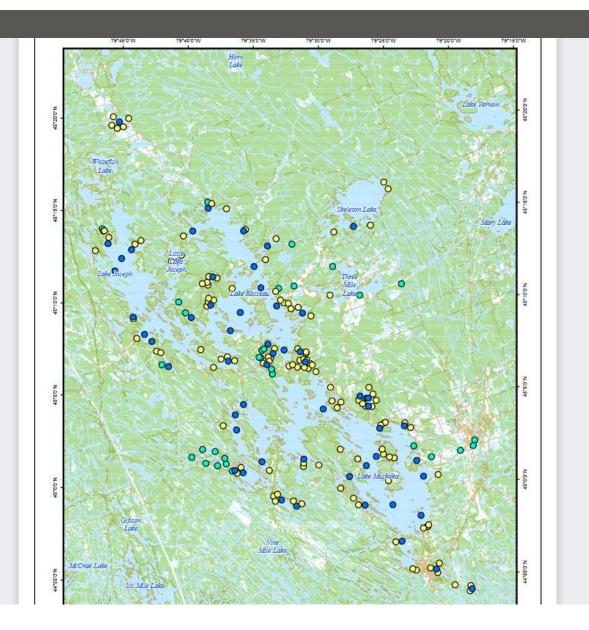
**SINCE 1894** 

## FOUNDING PRINCIPLE : PRESERVE MUSKOKA ENVIRONMENT



### **MANY SAMPLING SITES**

- Intent to discover issues at an early stage so remediation may be pursued
- Wide coverage of main Muskoka Lakes
- Testing Deep Water in major bays
- Testing Near Shore near potential contamination sources



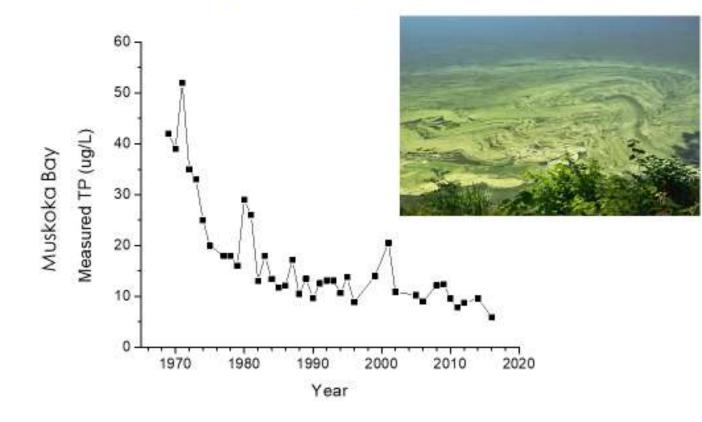
# WHY PROTECT RECREATIONAL WATER QUALITY



#### Slide 4

**DMD0** Hard to read the second icon; third icon is a beehive that does not represent algae - better icon? Deb Martin-Downs, 2022-05-05T14:24:07.454

## 1. Where are our lakes now? Phosphorus is pretty well managed

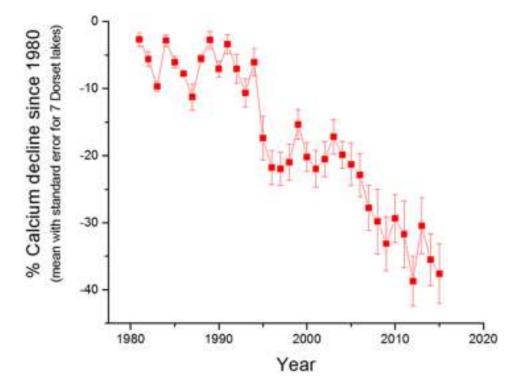




Friends ... MuskokaWatershed



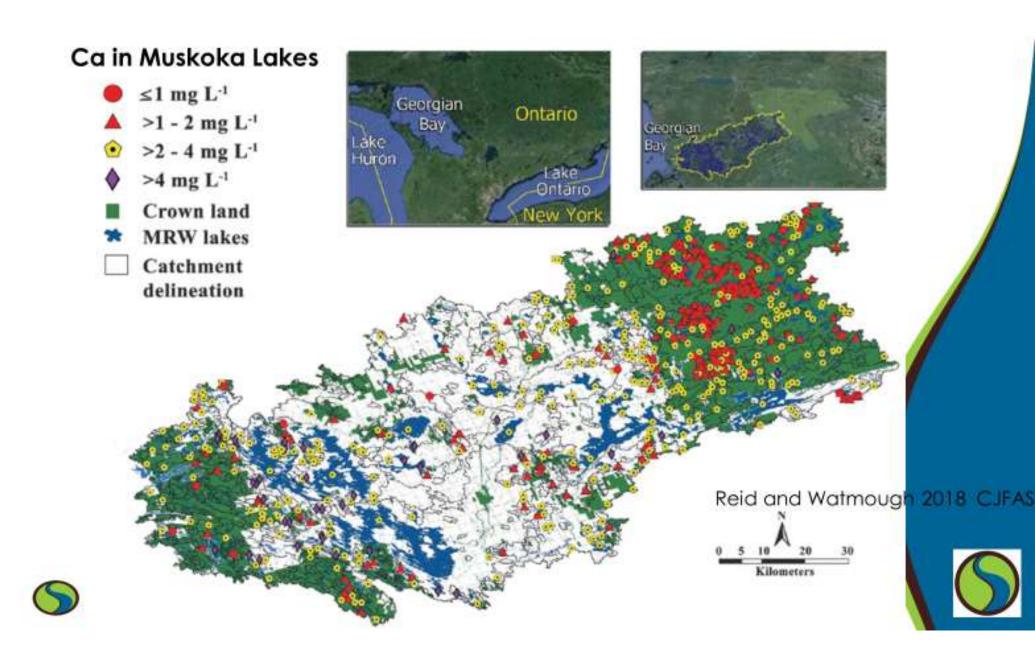
## But calcium levels have fallen to damaging levels in about half of Muskoka's lakes\*



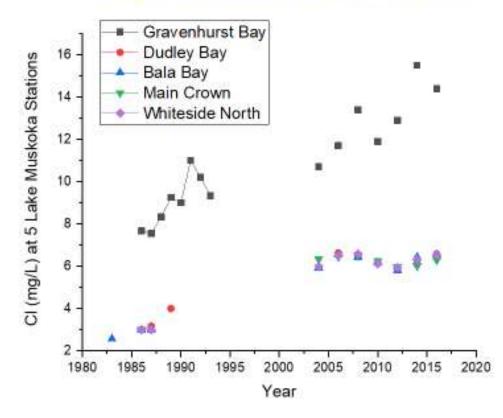


Friends ... MuskokaWatershed

\*From Paterson MECP DESC



# Chloride levels from road salt are rising e.g. in Lake Muskoka\*





Friends ... MuskokaWatershed

\* Data from MOE, MECP, DMM

# WATER QUALITY THREATS

Phosphorus levels > 20 ug/L E. Coli levels > 200 cfu/L

Harmful Algae Blooms [HAB] with toxins above 20 ug/L

Damage to zooplankton by salt [Chloride > 10 ug/L]

Damage to zooplankton by calcium reduction [Ca < 2 ug/L]

Shoreline preservation

Climate change

**DMD0** I think we need to have a slide or explanation of the parameters - what is phoshorus, ecoli zoops I see a zoop one but one on each of the main threats would be helpful Deb Martin-Downs, 2022-05-05T14:25:13.920

## WHY ARE ZOOPLANKTON IMPORTANT



- They eat the algae
- They feed the small fish
- The small fish feed the big fish and so on...