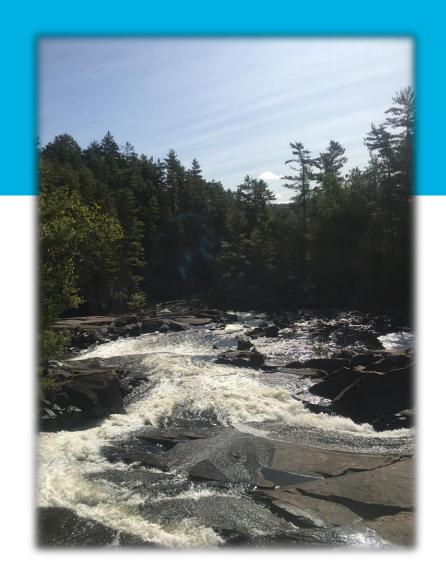
Water Management Tilden Lake

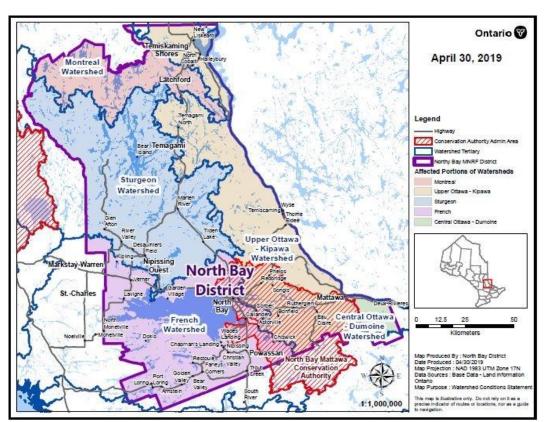
Chantal Frescura and Kate Tabb Ministry of Natural Resources North Bay District Wednesday, October 23rd, 2024





Presentation Overview

- 1. Planning and construction
- 2. Litigation Update
- 3. Future activities
- 4. Operating guidelines
- 5. Public boat launch
- 6. Bear Lake Dam





-2001/2002: Dam Safety Assessment was completed

-dam structurally sound but did not meet all safety standards (dam could be overtopped during flood event, bank susceptible to erosion during flood event)

- -2003: Completed Project Assessment
 - -Considered various options
 - -environmental analysis
 - -preferred option: construction of new control structure with concrete weir
- -2003/2004: Public Consultation
 - -Request for comments: 35 submissions
 - -Open House: 67 attendees
 - -Conclusion: MNR to continue regulating water at same levels, reduction in water level fluctuations during Spring freshet/large rain events, an alternative which reduced operations of the dam



- -2004: Finalizing Project Planning
 - -Objectives: 1. Maintain existing regulated seasonal lake water levels
 - 2. Ability to pass the Inflow Design Flood
 - 3. Improve/reduce flood levels without creating negative downstream impact
 - 4. Minimize dam operations and maintenance requirements
 - 5. Improve public and operator safety
 - 6. Provide adequate dam freeboard
 - 7. Meet safety guidelines
 - -Conclusion: construction of new control structure with concrete weir
- -2005: Class EA completed and approved but project did not move forward due to financial limitations



-2018: Re-Review of project proposal, archaeological and cultural heritage study, and notice to public (no comments received)

-2019-2022: Construction of new dam and removal of old dam







2. Litigation

- -Active litigation
- -Actioned outside of District MNR
- -No information available

3. Future Activities

- -Discussions pending outcome
- -Area to naturalize over time
- -Open to suggestions





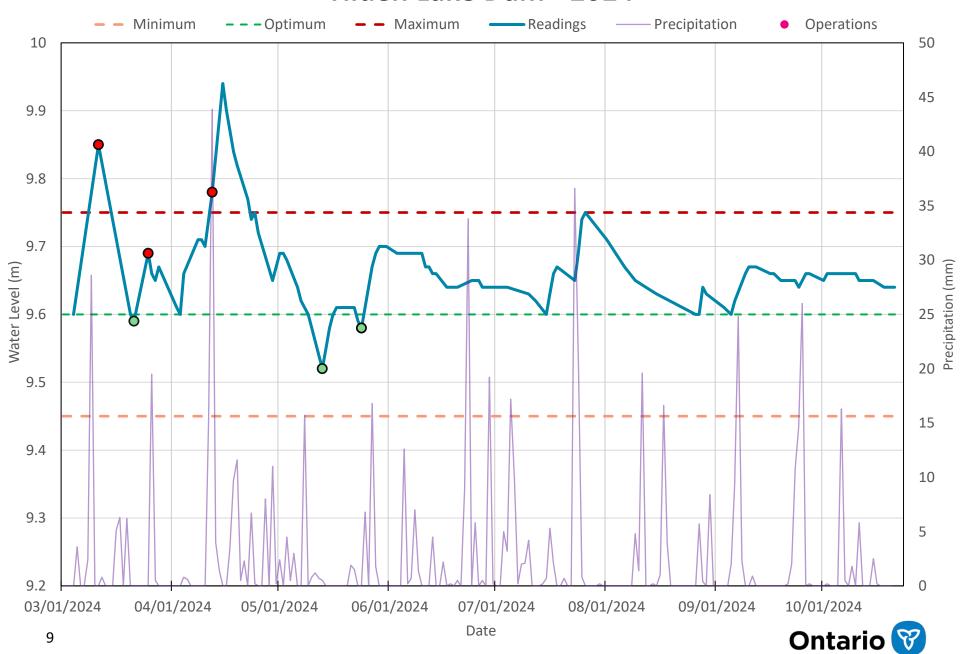
4. Operating Guidelines

- -Goal of water management is to balance social, economic and ecological objectives.
- Dams **do not prevent flooding** but some may have the capacity to provide limited relief from flooding through water level and flow manipulation.
- -Weir provides the waterbody to self regulate, to a degree, during periods of high water influx.
- -Operating range has a variance of 30cm. Goal to allow for water level fluctuations in response to a typical rainfall, snow melt and associated runoff.
- -Lake levels are kept within the same range as previous dam.
- -Operation considerations:
 - -current water level
 - -water level trendline
 - -reactivity of water system
 - -weather forecast
 - -identified values
 - -capacity to operate





Tilden Lake Dam - 2024



5. Public Boat Launch

- -Improvements have occurred via public
- -Serves as access to Bear Lake Dam
- -Wood landing in poor shape
 - -Safety concern, District may remove structure
 - -Purpose of area is for access, not docking
- -North Bay District has over 100 access points
 - -limited ability to improve sites







6. Bear Lake Dam

-Technical inspection completed summer 2024

-Results will inform the District

-Recommendations to be considered

-District inspection completed summer 2024

-Discussion pending results







Open Discussion