

Minesing Wetlands

David Featherstone, NVCA Ecologist



Friends of Minesing Wetlands –
Evening of Science and Stewardship
November 13, 2014



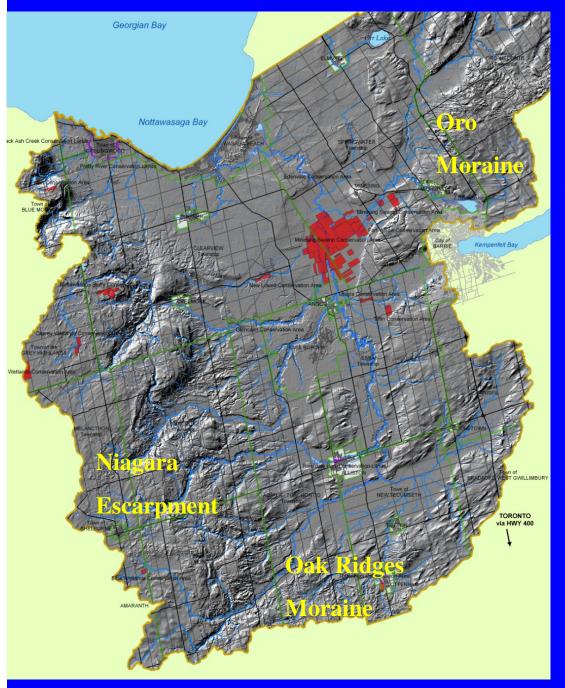
Presentation Outline

- Minesing in context lots of maps!
- Minesing tour lots of photos!
- Other cool stuff "birds and bees"
- Threats, Monitoring and Management



Where Is Minesing Wetlands?

- Nottawasaga River watershed
- >3,000 km² drainage area
- Includes drainage from Niagara Escarpment, Oak Ridges Moraine and Oro Moraine
- Convergence area for 3
 river systems –
 Nottawasaga, Mad and
 Willow



Lay of the Land

Minesing roughly represented by clustered red properties (NVCA lands)

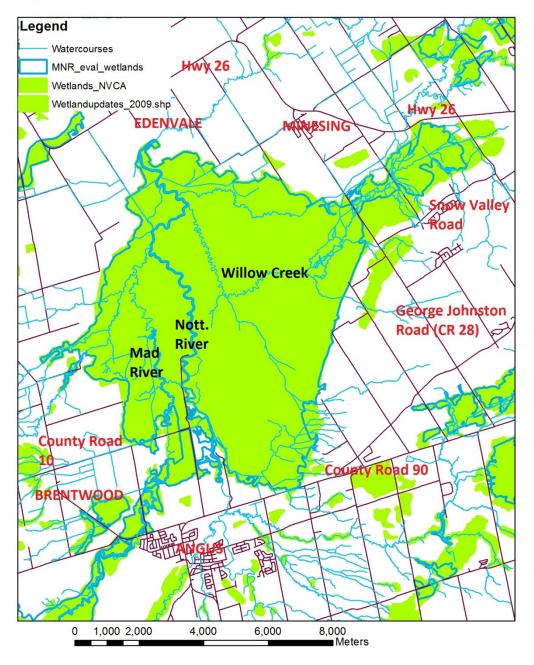
Located in Simcoe Lowlands

Part of Lake Algonquin (11,000 years ago – Georgian Bay 70 m higher than present)

Inundated during Nipissing transgression (5,000 years – Georgian Bay 13 m higher than present)



Minesing Wetland Boundaries MNR/NVCA Mapping

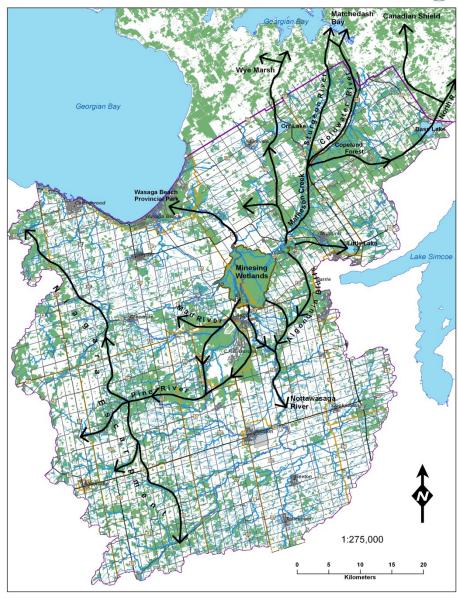


Minesing Wetlands

- Roughly bracketed by Hwy 26, County Road 90 and County Road 10
- >6,000 ha (15,000 acres) –
 12,000 football fields
- Core is approximately 8 km X 8 km with no roads
- Extends southwest along
 Mad River valley and east
 into Springwater
 Provincial Park

Wildlife Corridor Linkages





Legend





This map has been produced for illustrative purposes only While every effort has been made to accurately depict the information, data/mapping errors may exist.

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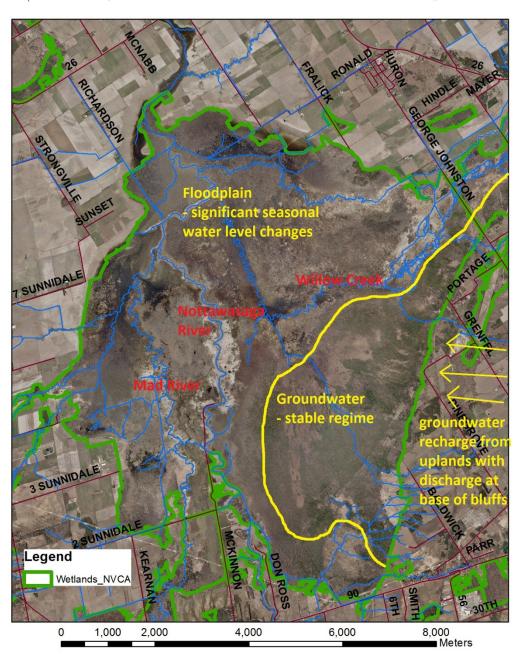
August, 200 Universal Transverse Mercato Zone 17 North North American Datum 198

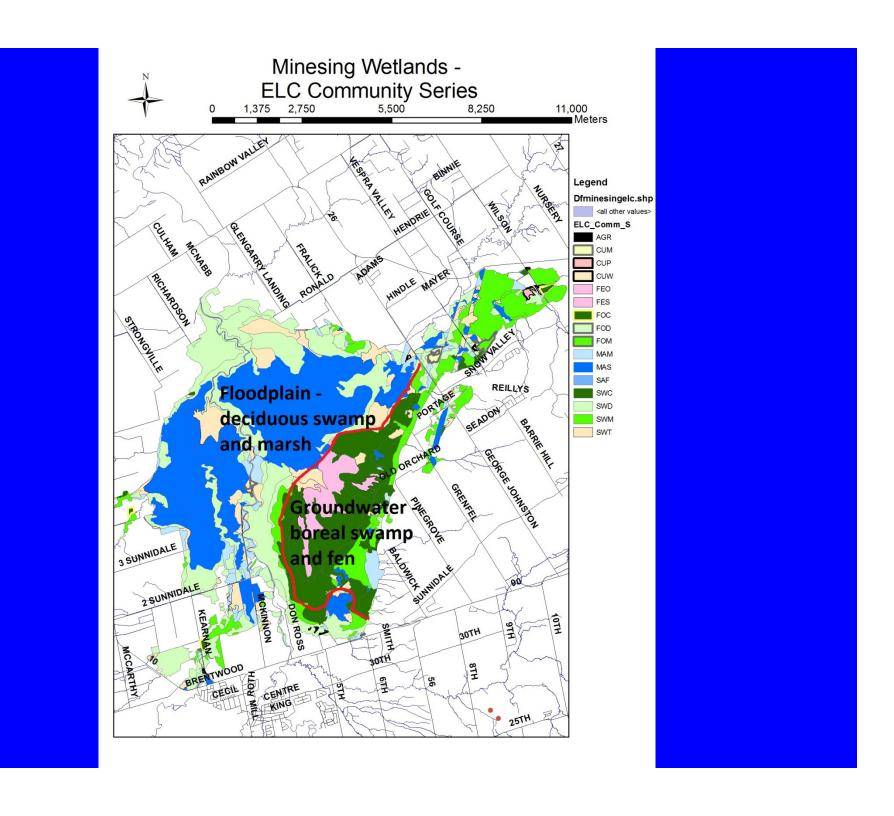
Natural Heritage Systems

- Minesing the "hub" of natural corridors that extend from the Niagara Escarpment (NE) to the Canadian Shield (CS) – Save Our NECS???
- Includes Escarpment, major valley systems, Algonquin Bluffs, Nottawasaga River Valley, Oro Moraine and "The Land Between"



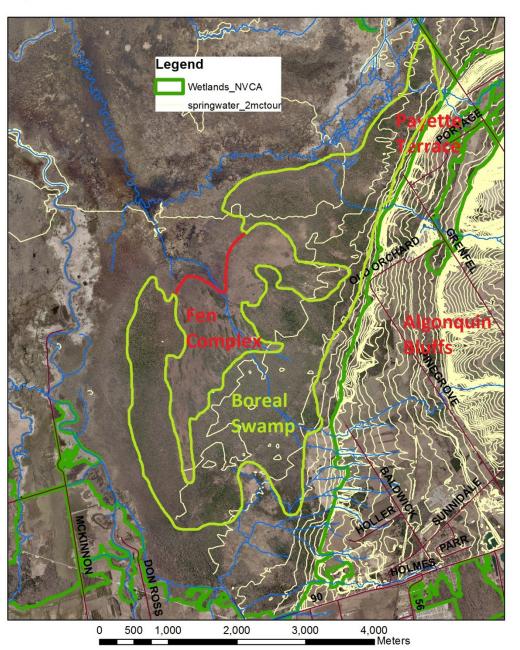
Minesing Wetlands - Floodplain vs Groundwater-Dominated Systems

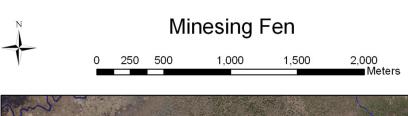


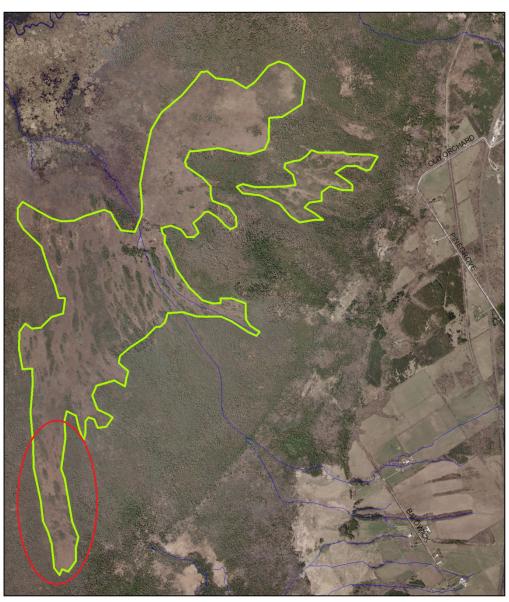




Minesing Wetlands -Boreal Swamp and Fen

































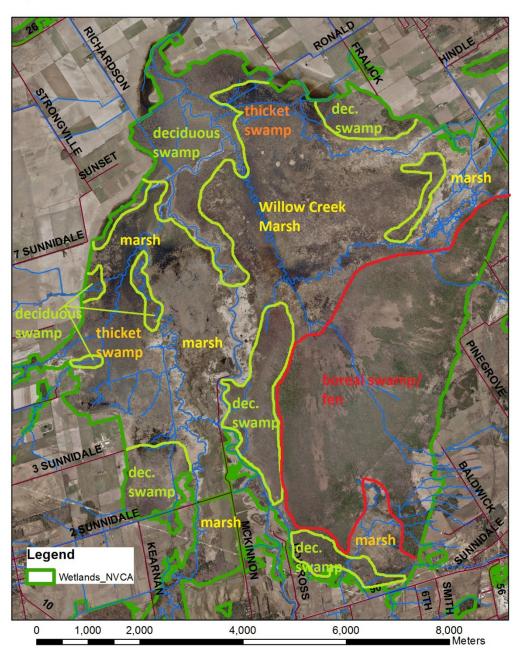








Minesing Wetlands -Deciduous Swamp and Marsh

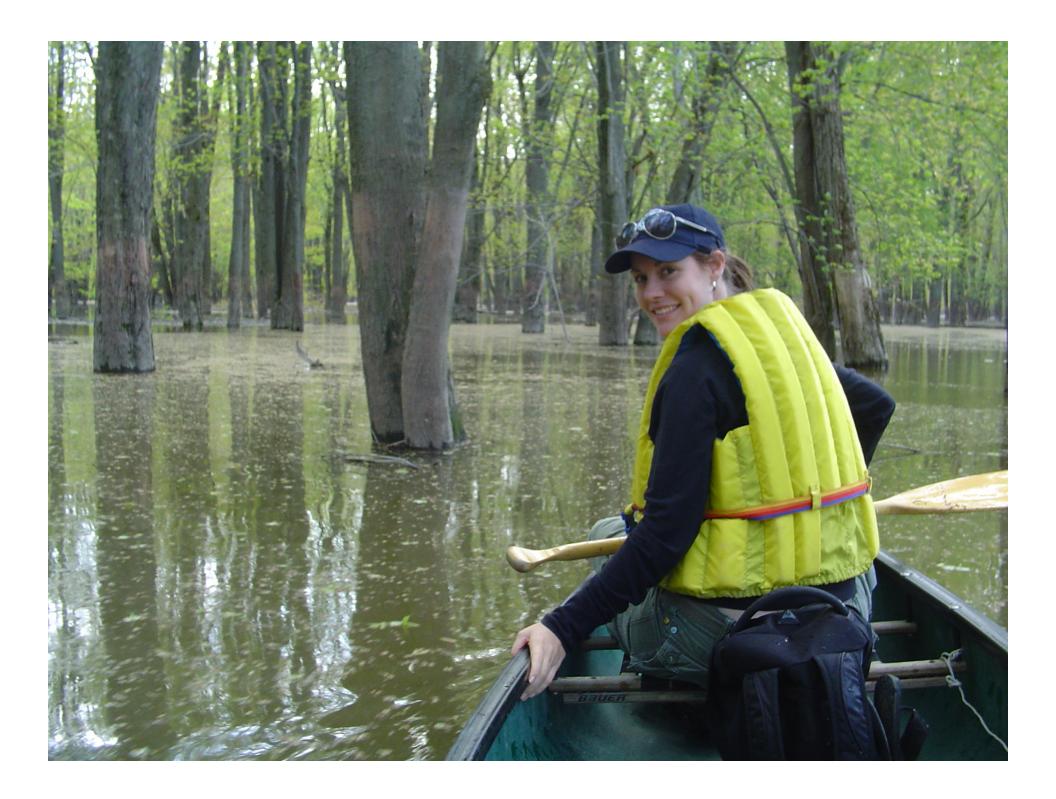


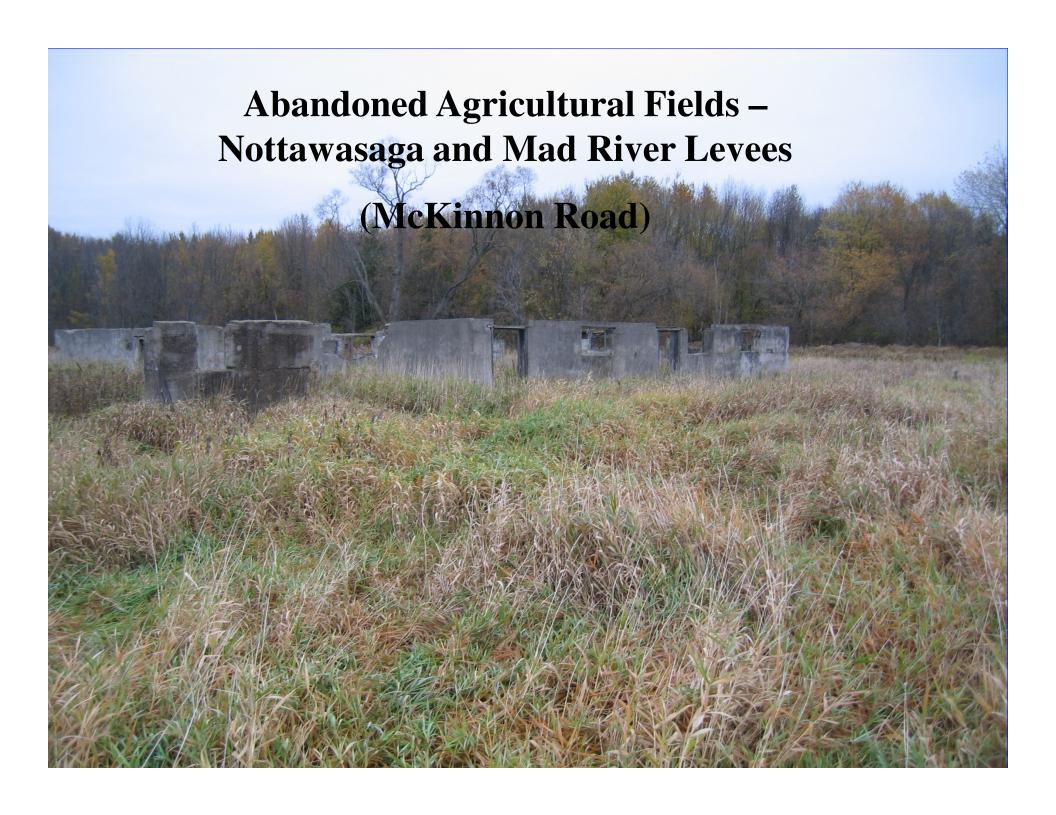










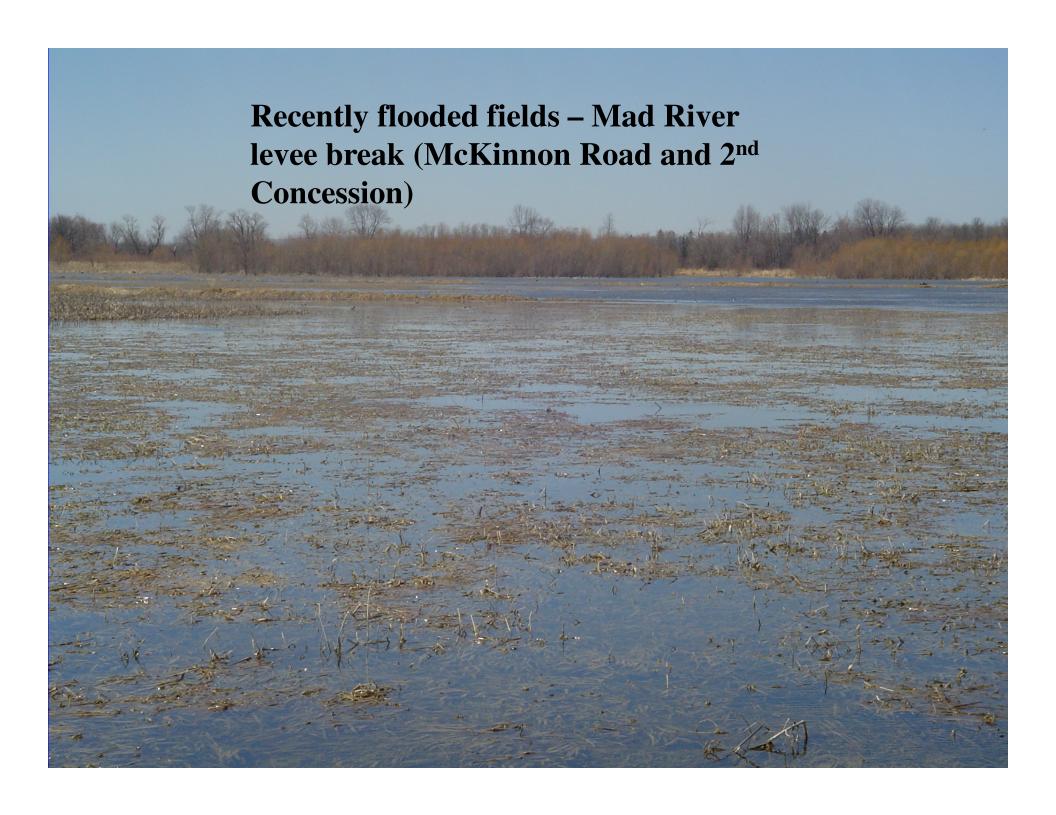














Hackberry Levee Forests



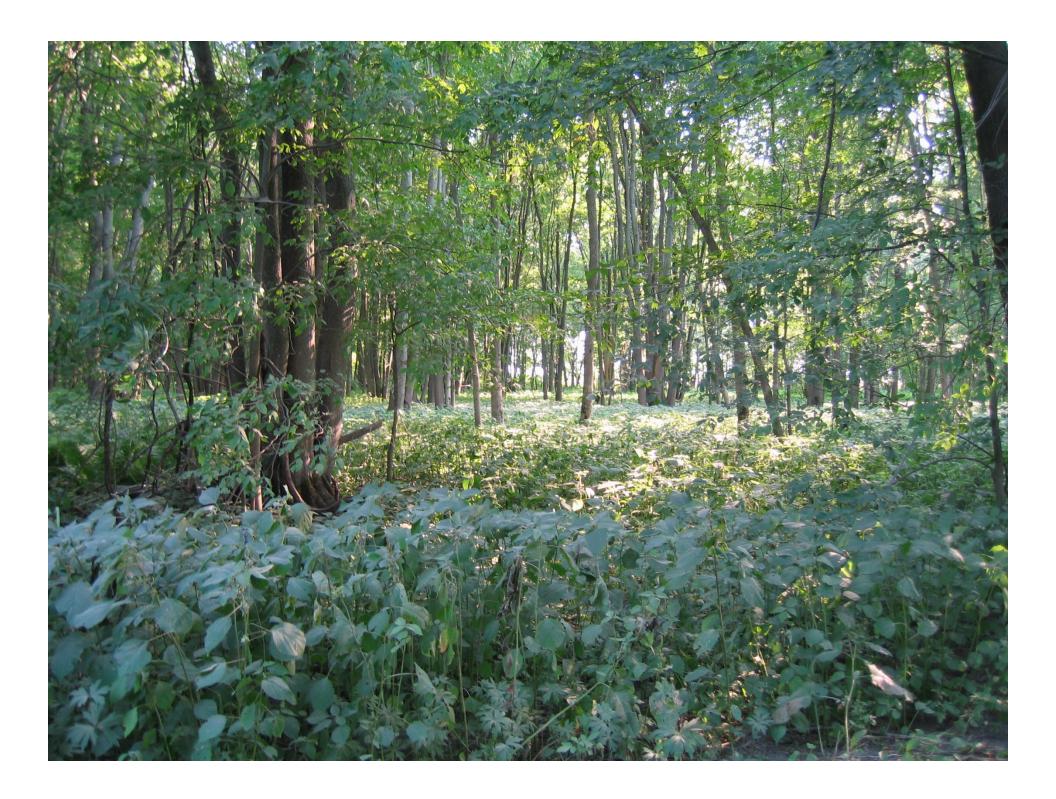
Carolinian Forest (North End)

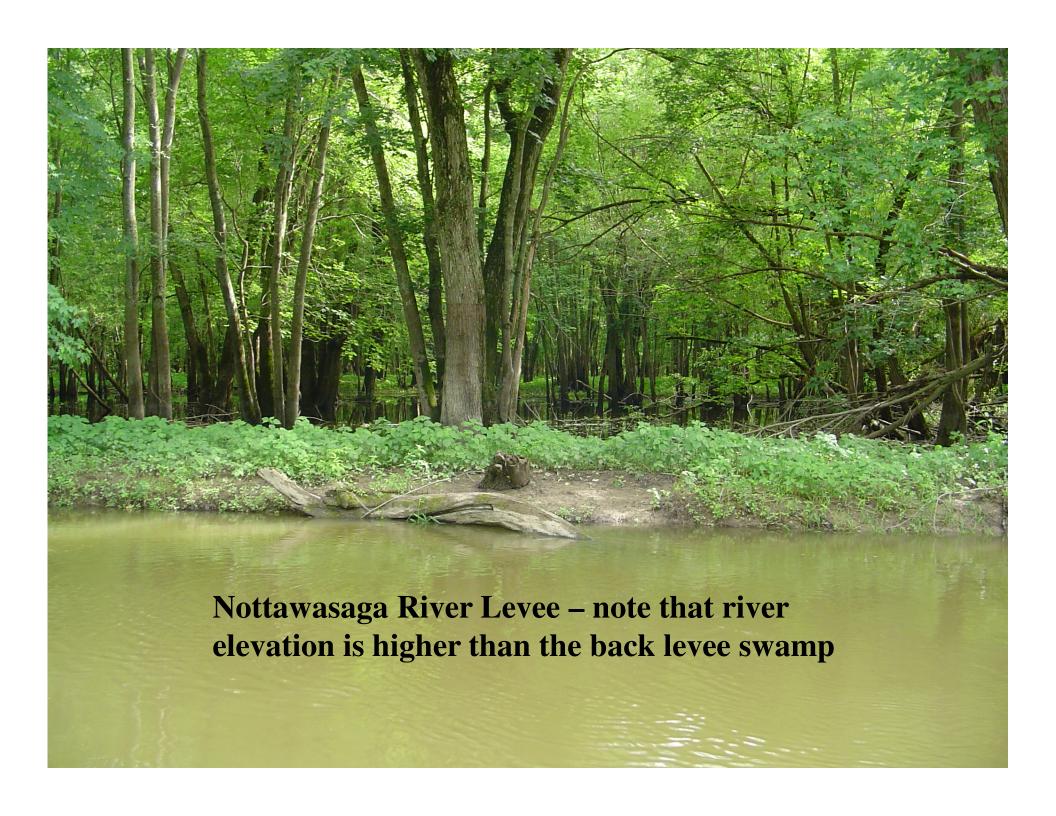


Bur Oak Swamp











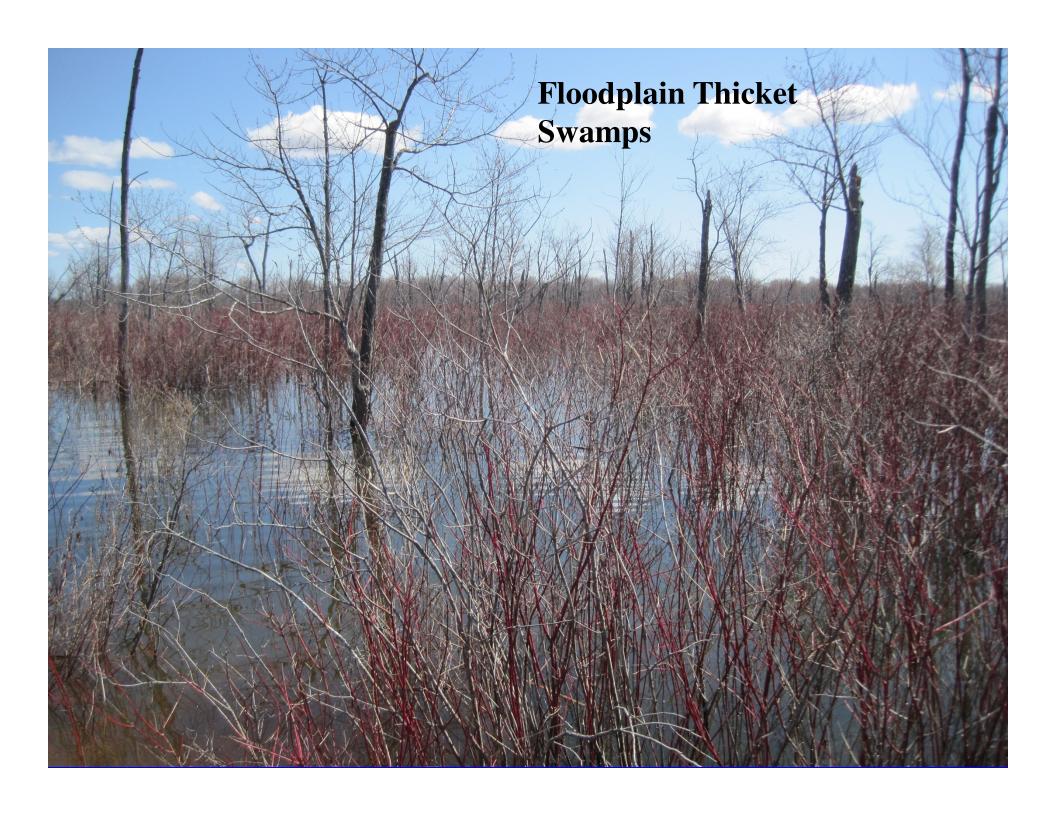
Cerulean Warbler – Threatened/Endangered



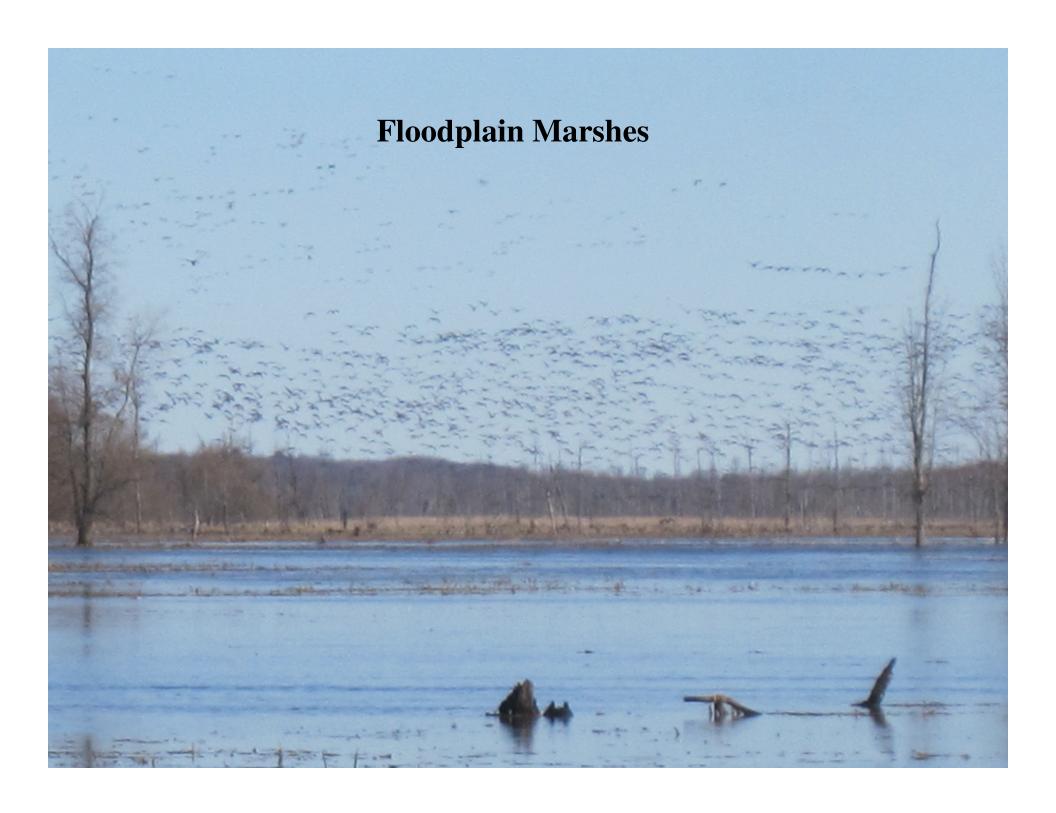




















Virginia Rail

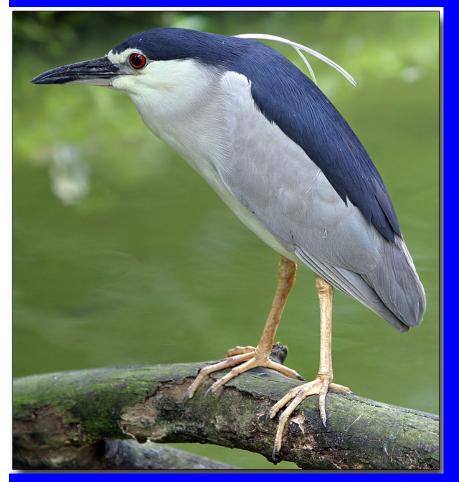
Sora





Common Moorhen

Least Bittern Threatened

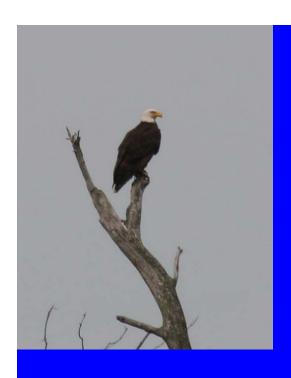


Great Egret

Black-crowned
Night Heron



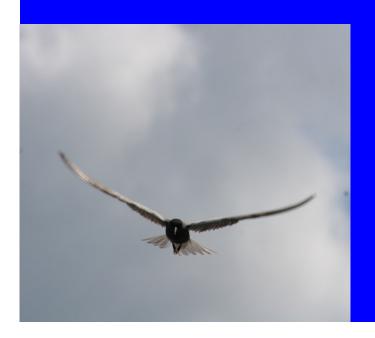
Sandhill Crane



Bald Eagle Nesting



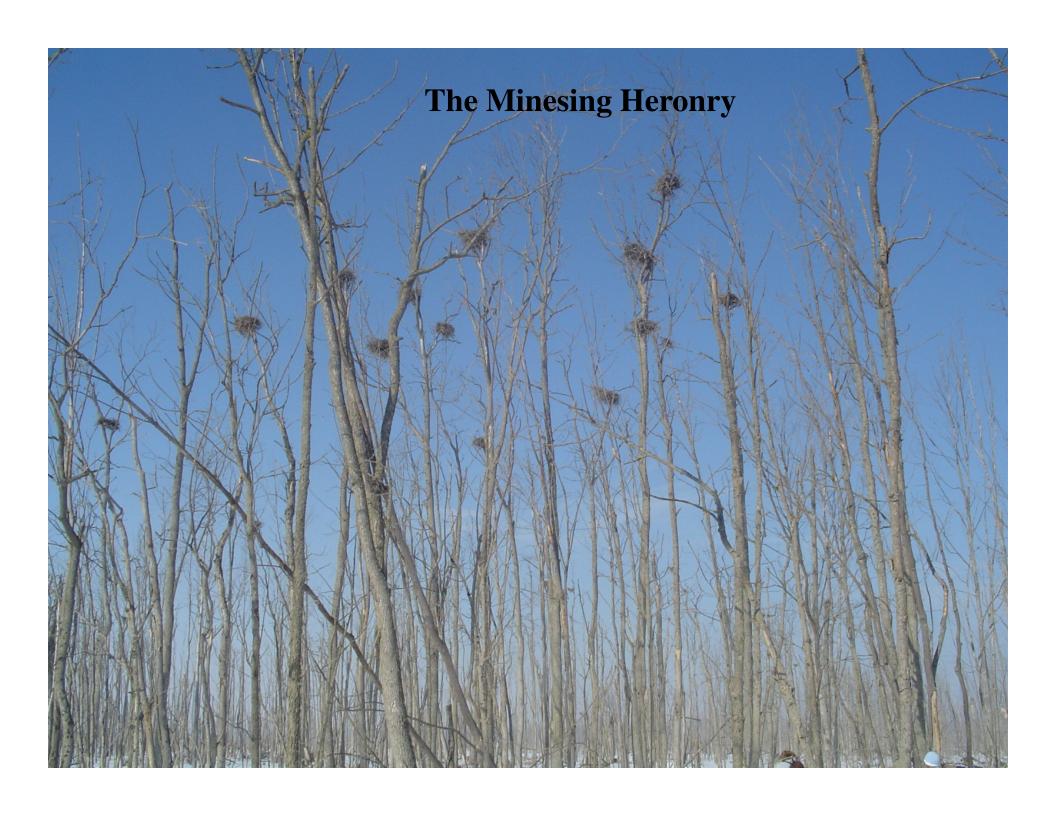




Black Tern Nesting









OTHER COOL STUFF!

Rare Fish



Northern Brook Lamprey – Special Concern



Lake Sturgeon - Threatened



Wood Turtle - Endangered



Turtles, Turtles

Blanding's Turtle – Threatened









Map Turtle – Special Concern



Spotted Turtle - Endangered

Turtles, Turtles



Snapping Turtle

- Special

Concern



Provincially Rare Insects



Giant Swallowtail



Delta-spotted Spiketail



Zebra Clubtail



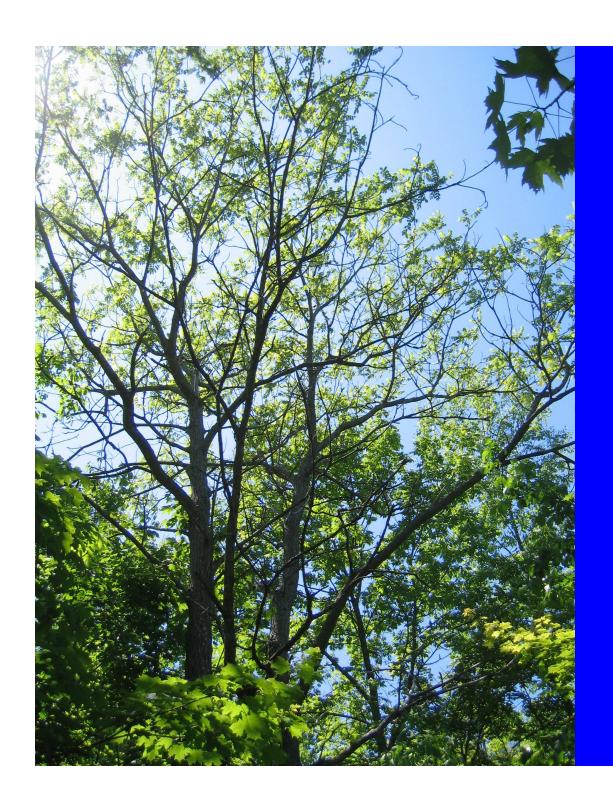
Blue-tipped Dancer



Moustached Clubtail



Halloween Pennant



Butternut

Endangered due to butternut canker which is spreading through North American populations.

Milk Snake – Species of Concern

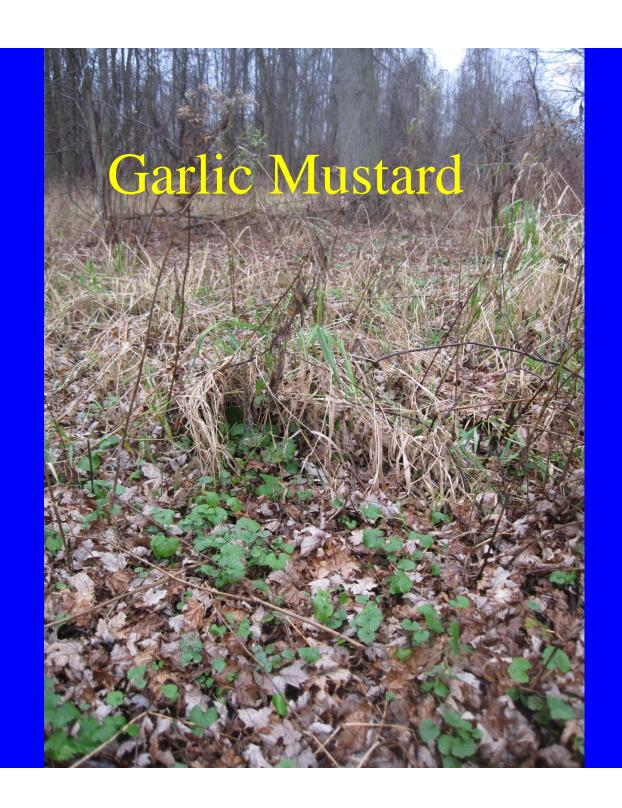














Minesing Threats

- Non-native Species
- Illegal Access (ATVs)
- Private Land Management (non-sustainable logging)
- Turtle Mortality (major roads)
- Development and Agricultural Intensification
- Continued floodplain forest decline

Minesing Monitoring

- Minesing Wetlands Biological Inventory (Bob Bowles and NVCA staff) completed in 2006
- Refining vegetation community mapping (over 400 individual communities identified to date!) including help from Nature Conservancy Canada
- Marsh Monitoring Breeding Bird Surveys since 2007
- Groundwater monitoring (bluffs to fen) since 2009
- Invasive species monitoring
- Species At Risk monitoring participating in Species At Risk Recovery Plans (Hine's Emerald)
- Surface water quality studies NVCA and McMaster University

Minesing Management

- NVCA works closely with Nature Conservancy Canada (NCC) and other partners to manage Minesing Wetlands through an approved management plan (updated in 2014!)
- Invasive species management (dog-strangling vine and *Phragmites* to date)
- Natural heritage corridor analysis (NCC with NVCA input)
- Illegal access NVCA continually investigating additional structural controls and enforcement (getting better!)
- Turtle Crossing signs (Kids for Turtles) and ecopassage consideration
- Establishment of Acquisition Priorities (NCC key role)
- Through planning process, protection of Minesing Wetlands and connecting corridors

Friends of Minesing Wetlands

http://minesingwetlands.ca/



- protect the ecological integrity of Minesing Wetlands, and its supporting watershed.
- undertake specific projects and initiatives
- promote educational, recreational and eco-tourism opportunities compatible with the preservation of the Minesing Wetlands ecosystem.
- To raise funds to supplement, complement and enhance the ecologically sound management of Minesing Wetlands.

Individual membership: \$20

Family membership: \$50

Club: \$200

Friends of Minesing Wetlands

- Spring and fall canoe trips
 - Winter snowshoe hikes
- Other events (stay tuned)

http://minesingwetlands.ca/

