## Incorporating Species at Risk in Wetland Restoration



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### Does it Move?? Spatial constraints

- 1. Fauna moves
- 2. Flora moves.....slowly

# Does Anyone Know What Time It Is?? Temporal Constraints

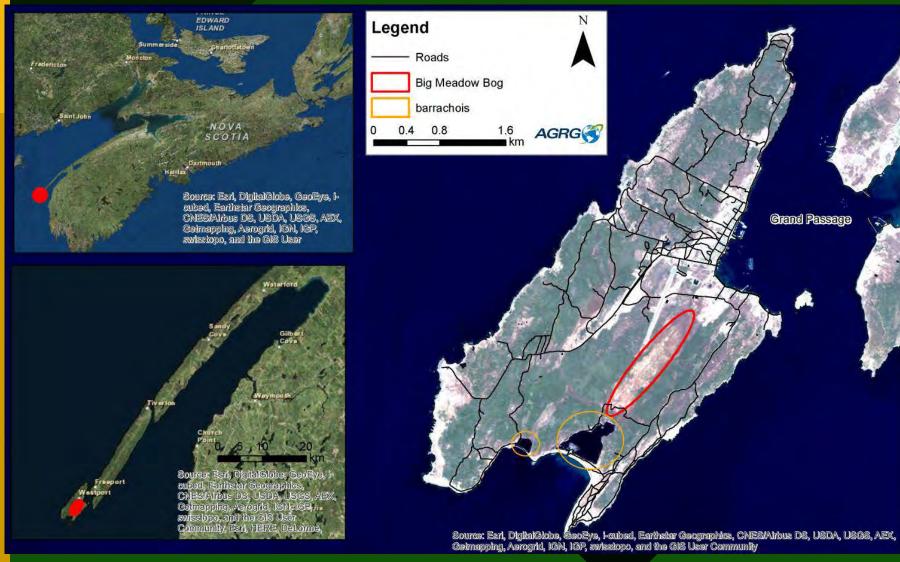
 Life cycle may drive when a species is present.

#### Turtles and Flowers





#### Big Meadow Bog Brier Island

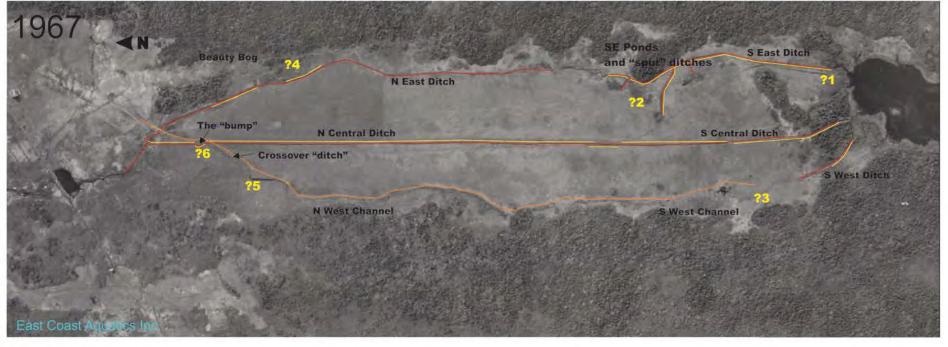




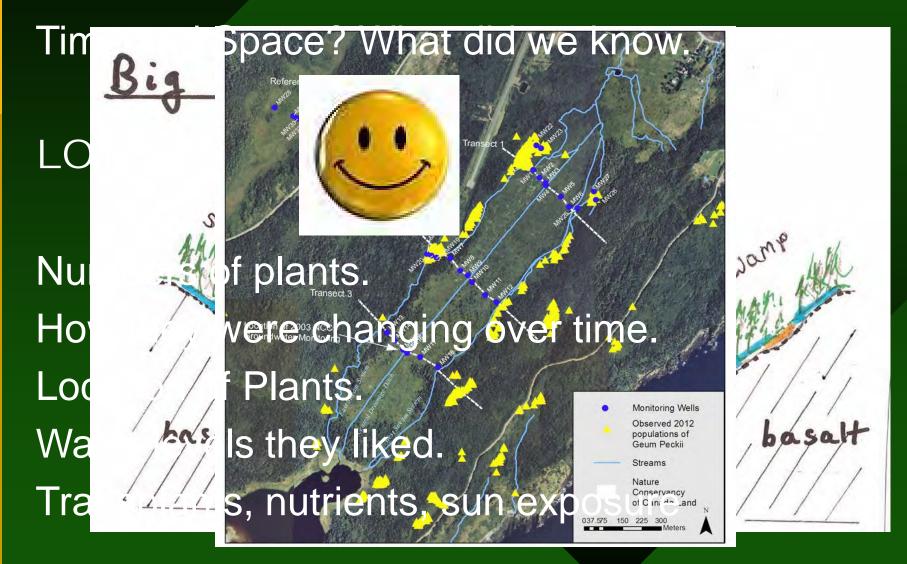




#### Big Meadow Bog - Summary Impacts



#### E. Mountain Avens - BMB





#### Hydrology Restoration - Trials

Main Objectives of trial ditch blocking:

Raise the water table level within 10-15cm of the surface.

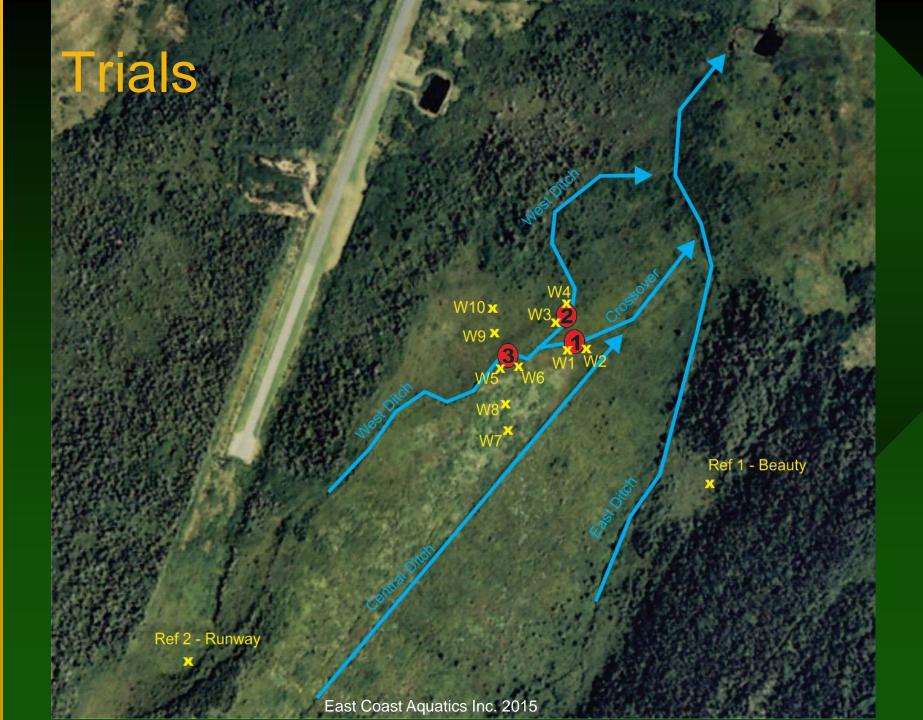
Try to quantify spatially how much area a ditch block influences.

Try to determine how quickly the response to a blockage occurs.

### Trials









East Coast Aquatics Inc. 2015

#### Big Meadow Bog Summary

A globally endangered species that we know a lot about at the site

A species that does not readily move.

A species that is limited spatially in its use of the available wetland habitat.

Determine species specific restoration targets,

Ensure targets are achievable (trials), Ensure restoration is reversible as a mitigation strategy

#### Wood Turtle at Sackville

Time and Space? What did we know.

**NOTHING** 



Some suggestion they might exist within the watershed.







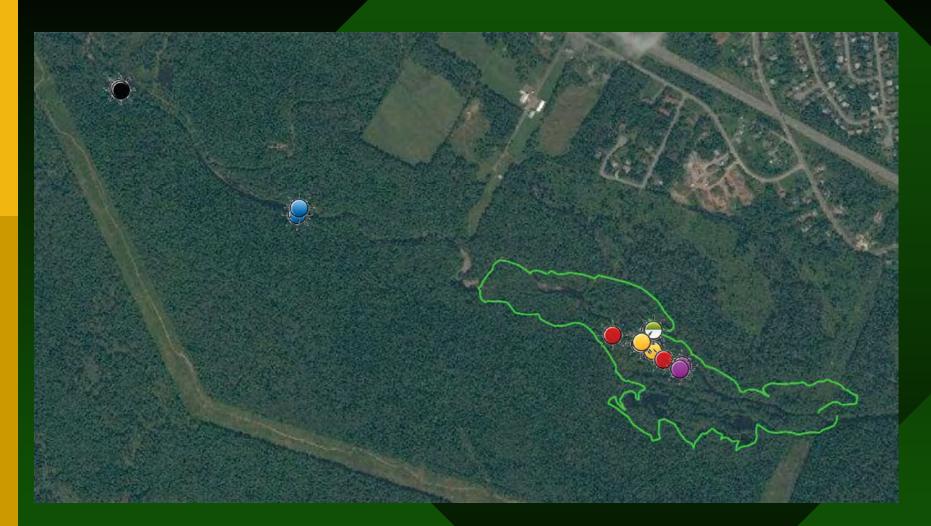
East Coast Aquatics Inc. 2015

### At first glance!?!



## Where were females during nesting period?





Where were turtles during the overwinter period?



#### Sackville Wetland - Summary

A Provincially threatened species that we know little about at the site.

A species that moves around a lot.

A species that uses various available wetland habitat for life cycle needs.

Identify important life cycle habitats.

Decide if you will protect, enhance key habitats.

Ensure restoration timing considers species movements

When considering species at risk within a restoration project,

- Think temporally
- Think spatially

#### Contact:

