



CANADIAN WILDLIFE FEDERATION

Monarch Habitat Restoration

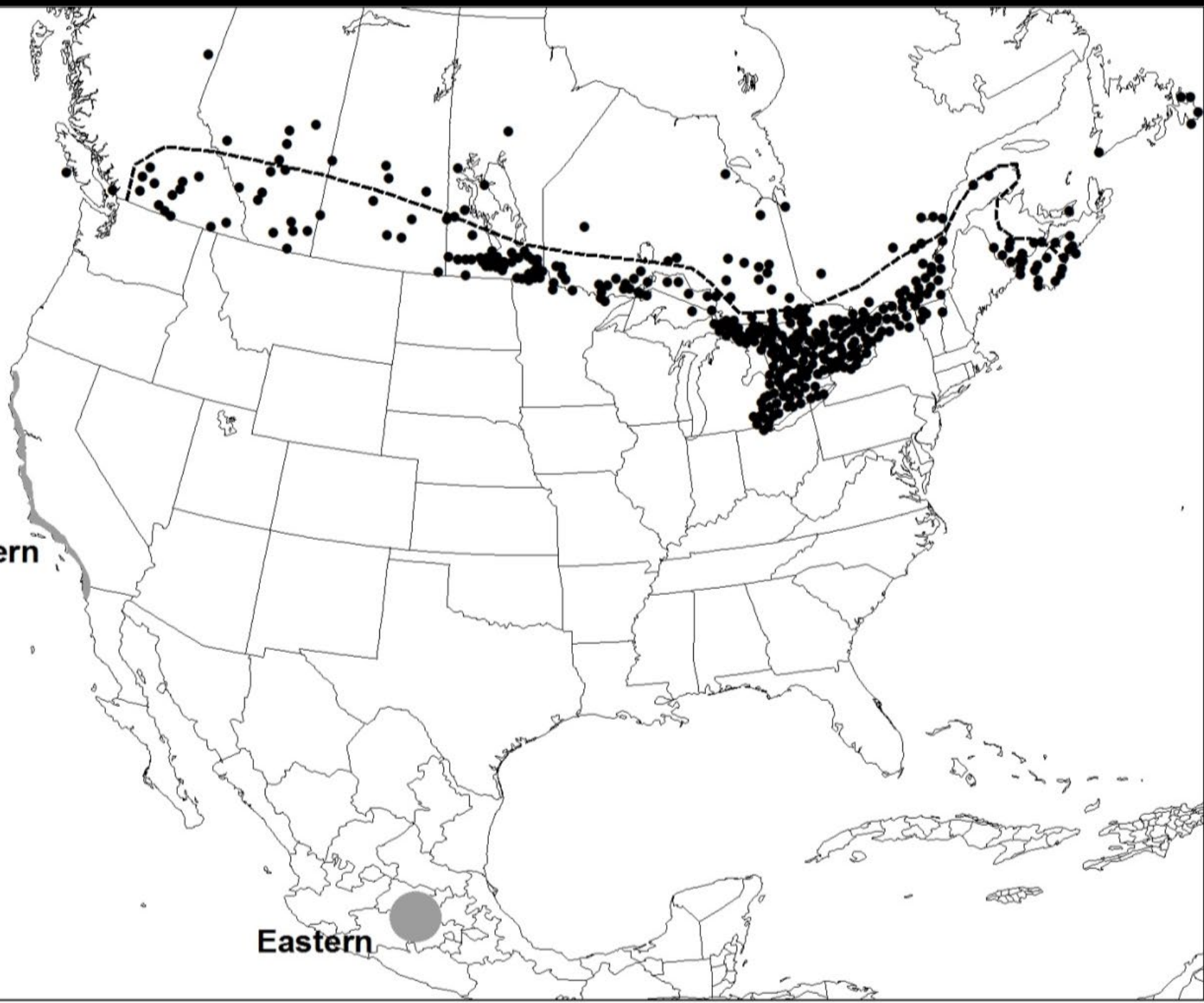
Carolyn Callaghan

Holly Bickerton



Western

Eastern

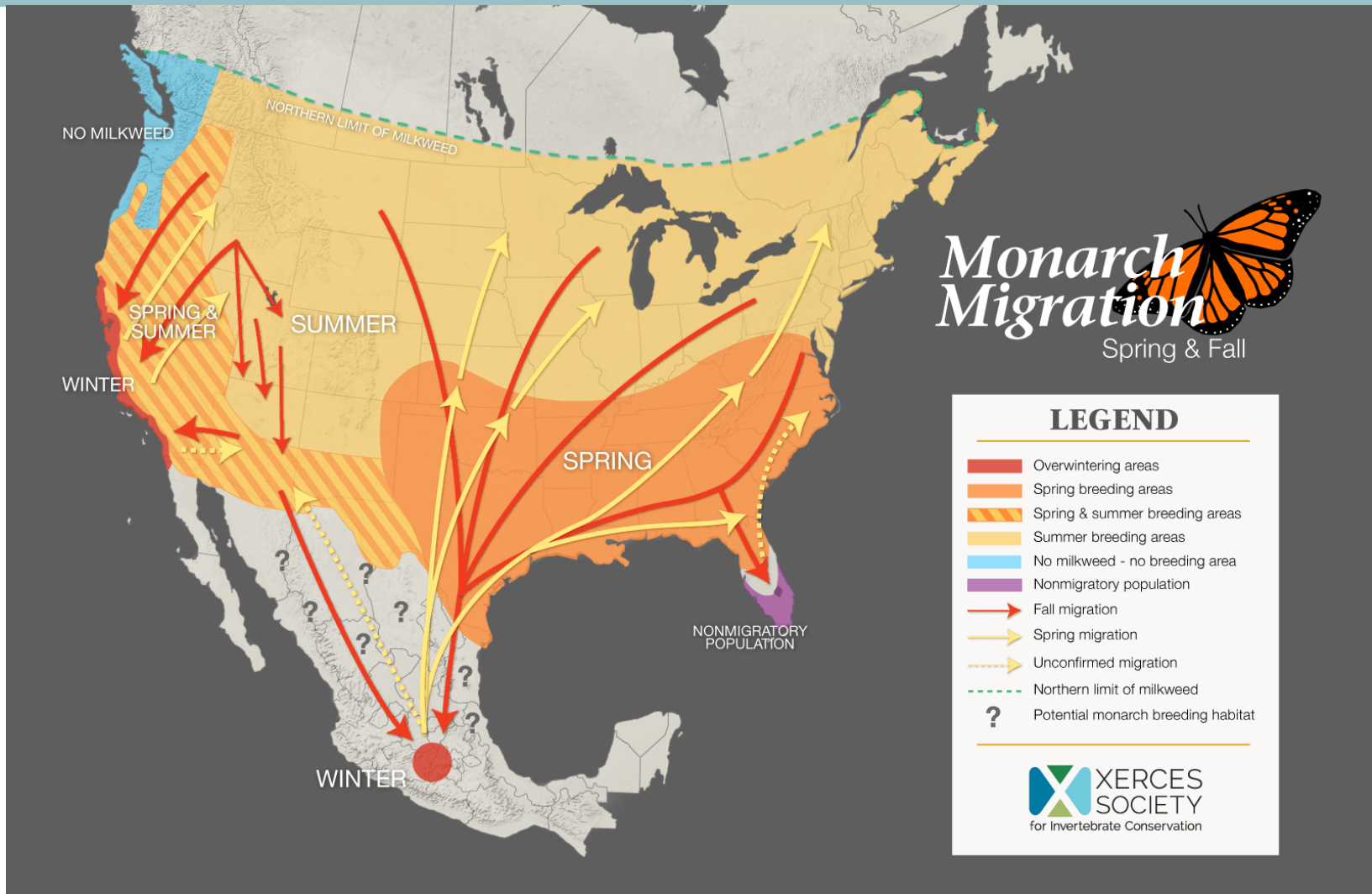


- Monarch currently listed as Special Concern within our endangered species legislation
- Monarch butterfly listed as endangered by COSEWIC in 2016
- Government of Canada in process of making listing decision – not expected before federal election of 2019

Threats to Breeding Habitat in Canada

Threat	Level of Concern	Severity
Widespread use of herbicides	High	High
Widespread use of pesticides	Medium	Medium
Succession/ Conversion of breeding/nectaring habitat	Medium-low	Unknown

Why Monarchs?



Addressing Habitat Restoration



Meadow Habitat



Ontario
Trillium
Foundation



Fondation
Trillium
de l'Ontario

An agency of the Government of Ontario
Un organisme du gouvernement de l'Ontario

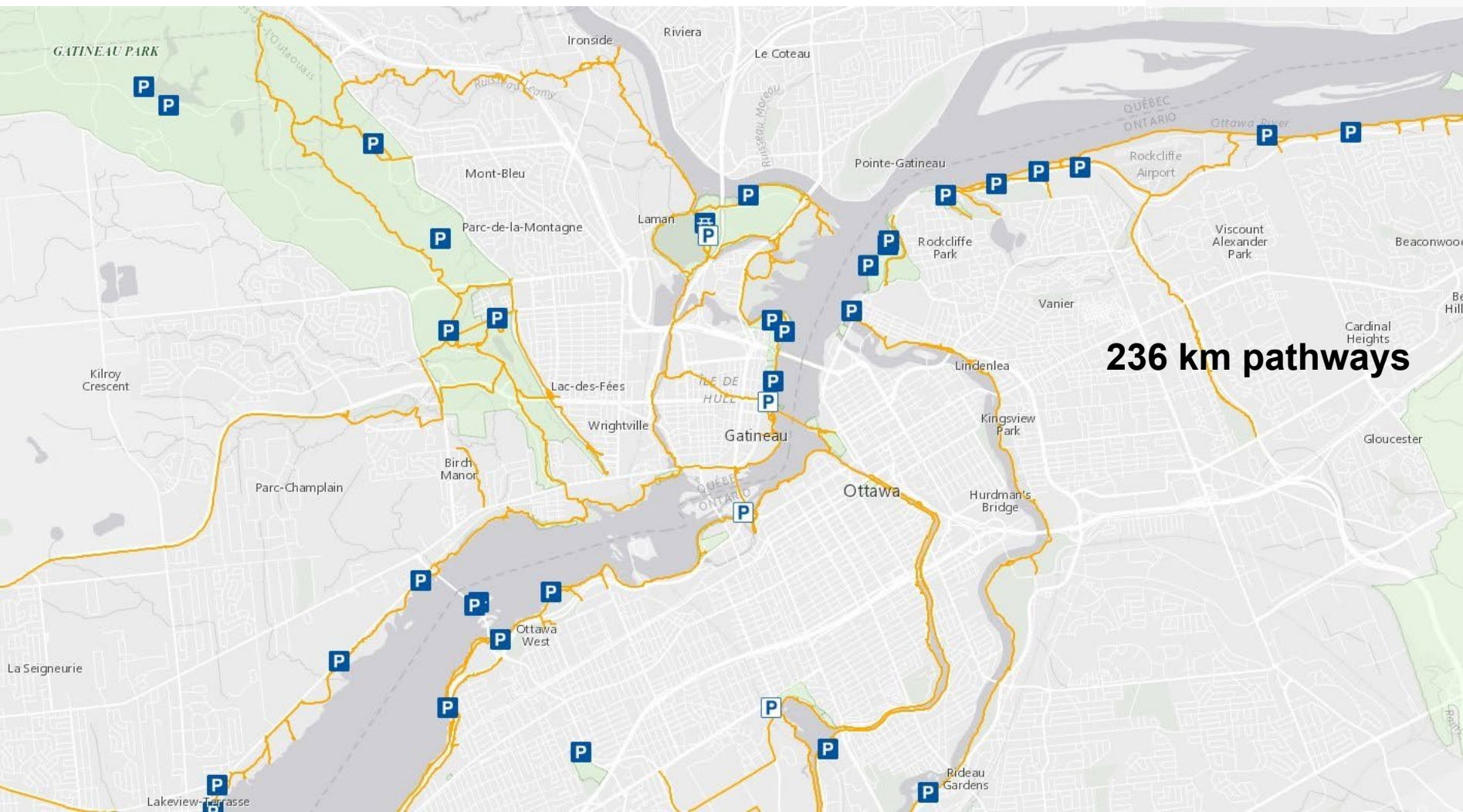
Our Partners



LANARK
COUNTY

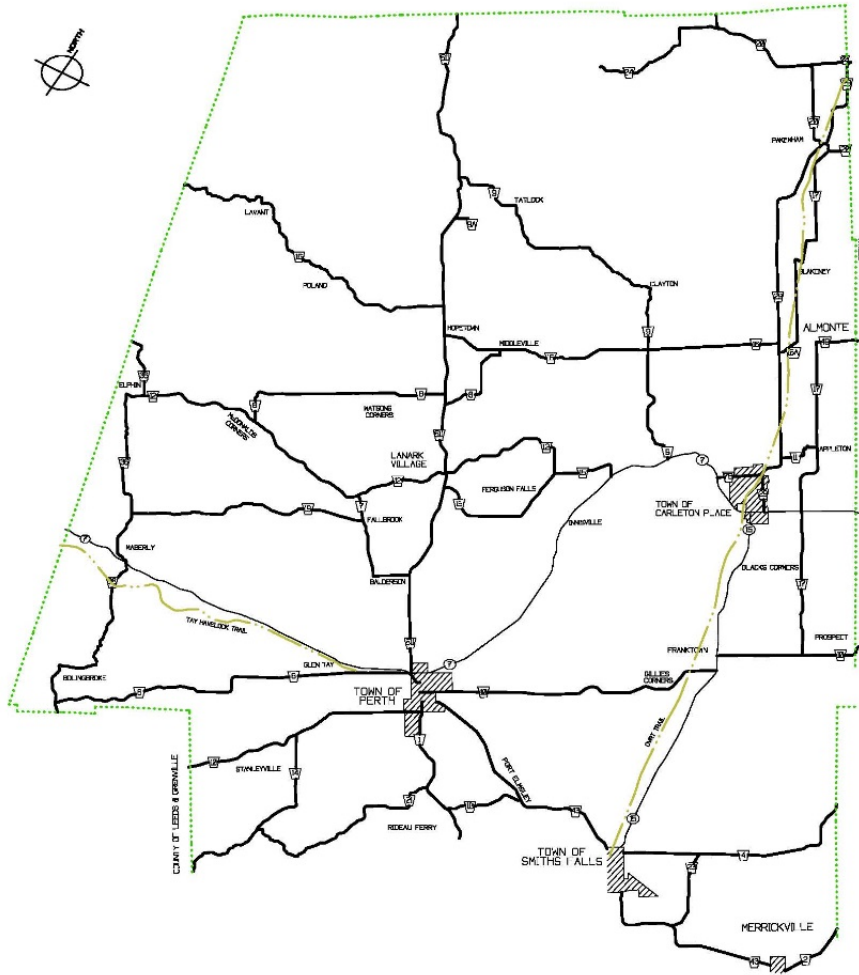


Connectivity



Connectivity

- 562 km of roadways



LANARK
COUNTY

Connectivity



- 30,000 km hydro line corridors



The Challenge of Invasive Species



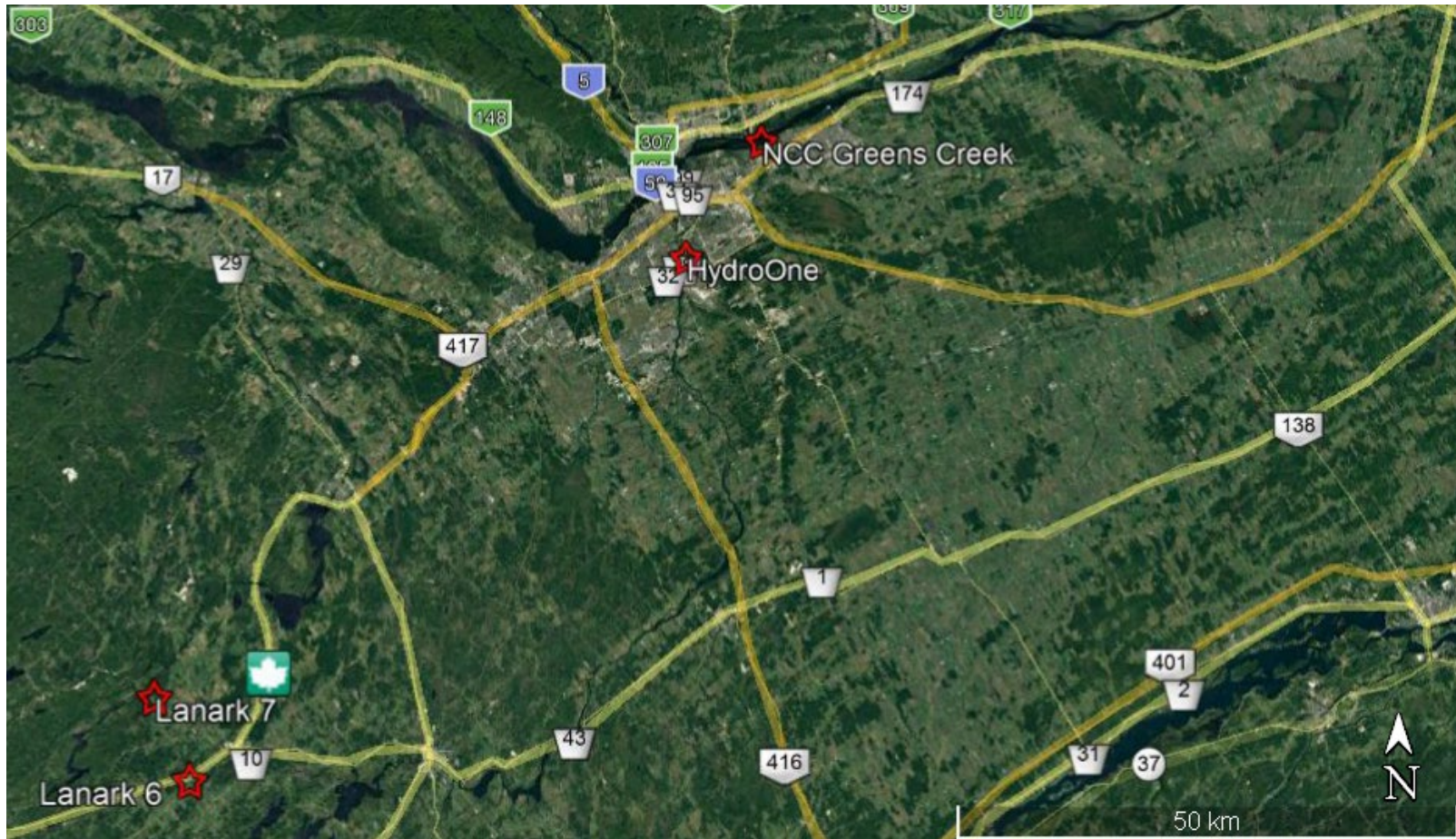
Habitat Restoration for Monarch



Our Objectives:

- Create three Monarch restoration sites on roadsides & rights-of-way
- Experiment with preparing and planting sites using different methods
- Document relative costs and ecological benefits
- Communicate results with land managers

Our Sites



Vegetation Monitoring



10 quadrats

VEGETATION MONITORING QUADRATS

SITE NAME 7T SITE NUMBER _____

SURVEYORS CG, HB DATE 9 Oct Sheet no. _____

Species recorded	1	2	3	4	5	6	7	8	9	10
Weedy inv. grass	99	90	90	100	100	100	100	100	100	100
Aster seedling	1									
Canada Goldenrod	5	10								
Vicia acutella	10	5								
Aster seedling	<1	5								
Galium	20	5								
New Eng Aster		5								
Tarax officinalis		1								
Aster sp. yellow					10		5			
Wild Parsnip					5		1		5	1
Hesperium perf.							1		1	
Danthonia carth.										
Ranunculus						5				5
Therapsid						1			5	



Seed collection and site preparation



Technical workshop



Open for Learning

- Expertise on native meadow habitat restoration in presence of aggressive alien invasive plant
- How to build markets for native plant seeds
- Most efficient ways to scale up restoration
- Funding

MONARCH HABITAT RESTORATION *in progress*

RESTAURATION DE L'HABITAT DU MONARQUE *en cours*

