

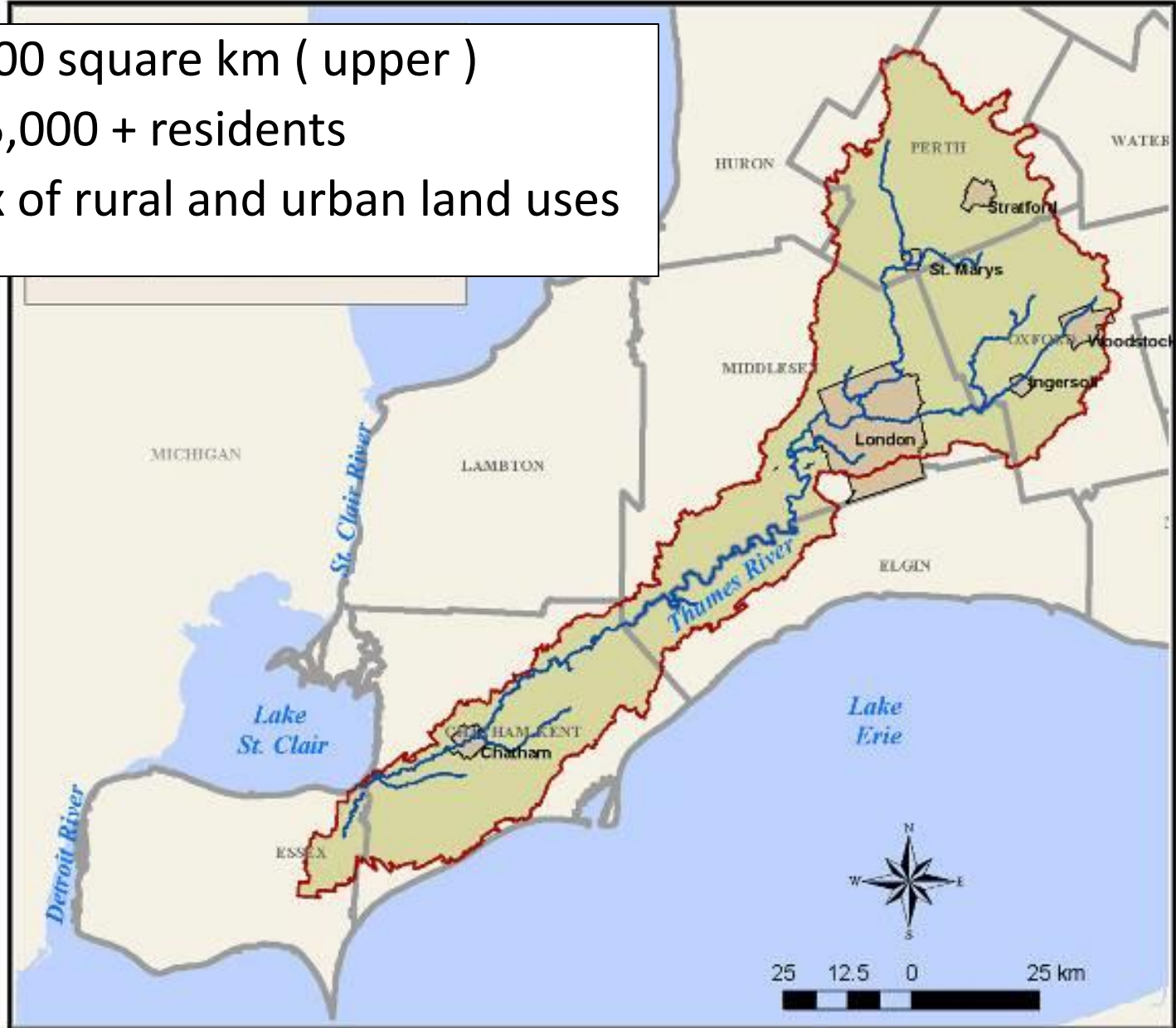


Conservation Services in the Upper Thames River Watershed

For the Agricultural Sector Working Group,
Craig Merkley, UTRCA
May 27, 2016

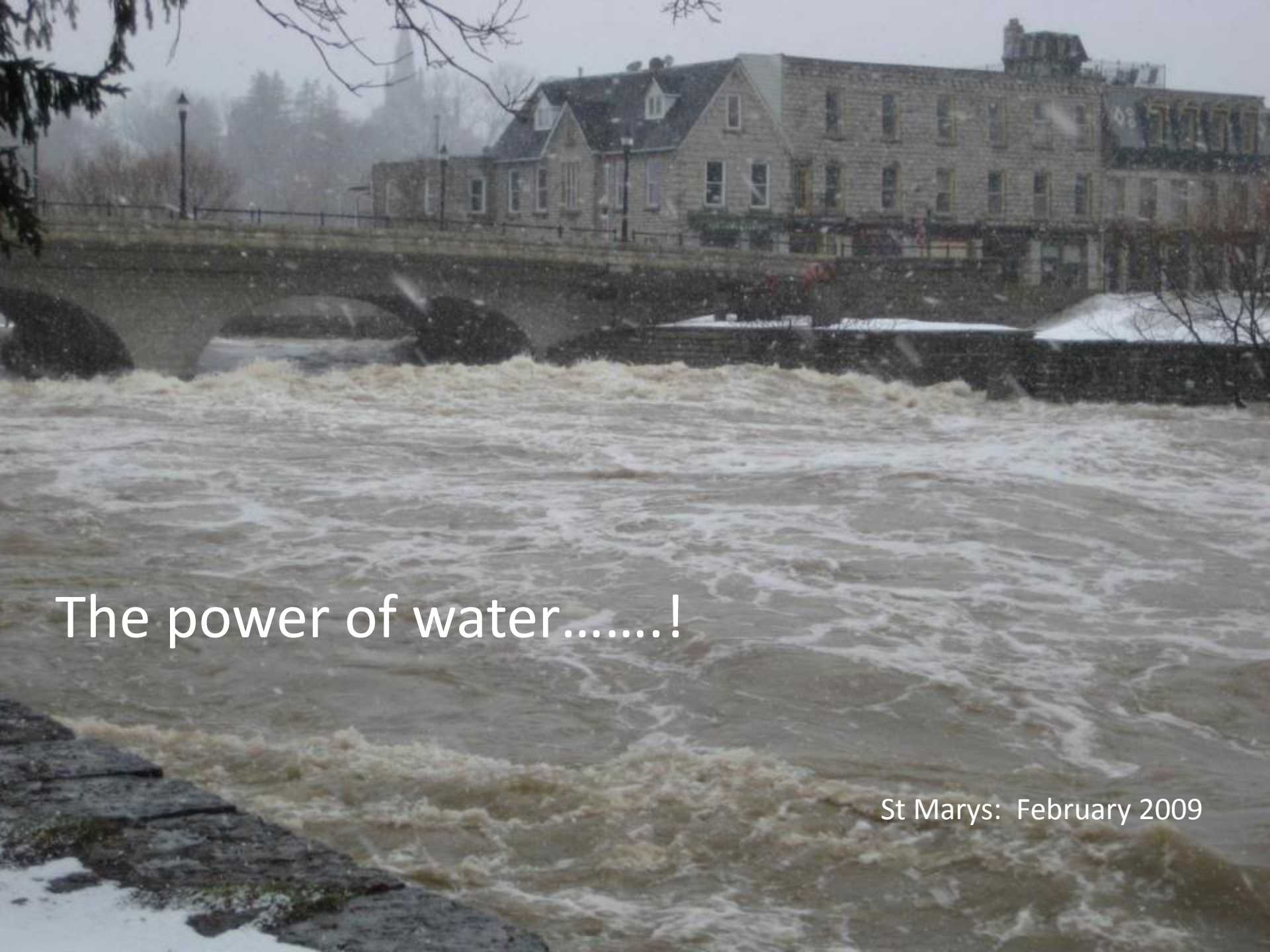
Thames River Watershed

- 3,400 square km (upper)
- 515,000 + residents
- Mix of rural and urban land uses






Fanshawe Dam: constructed mid 1950's



The power of water.....!

St Marys: February 2009

An aerial photograph showing a large farm complex surrounded by floodwaters. The farm features several large green-roofed buildings, two tall cylindrical silos, and several rectangular ponds. The surrounding fields are partially submerged, and the water is a murky brown color. In the background, more trees and distant structures are visible above the floodwaters.

Downstream impact....

Delaware: February, 2009



Upland - water and soil

Conservation Services Unit

- Agricultural Erosion Control
- Rural Water Quality Program
- Research and Demonstration Projects
- Tree planting, woodlot management
- Extension



Early 1980's

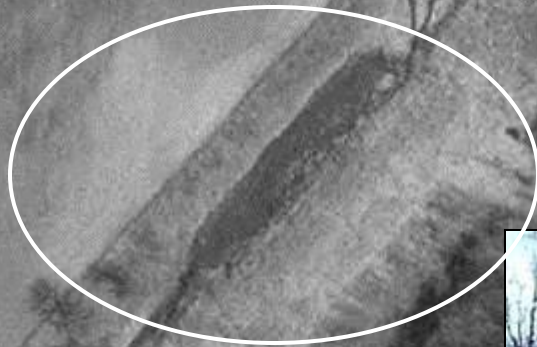


Thames River Implementation Committee (TRIC)

Strip Cropping



Sediment Basin

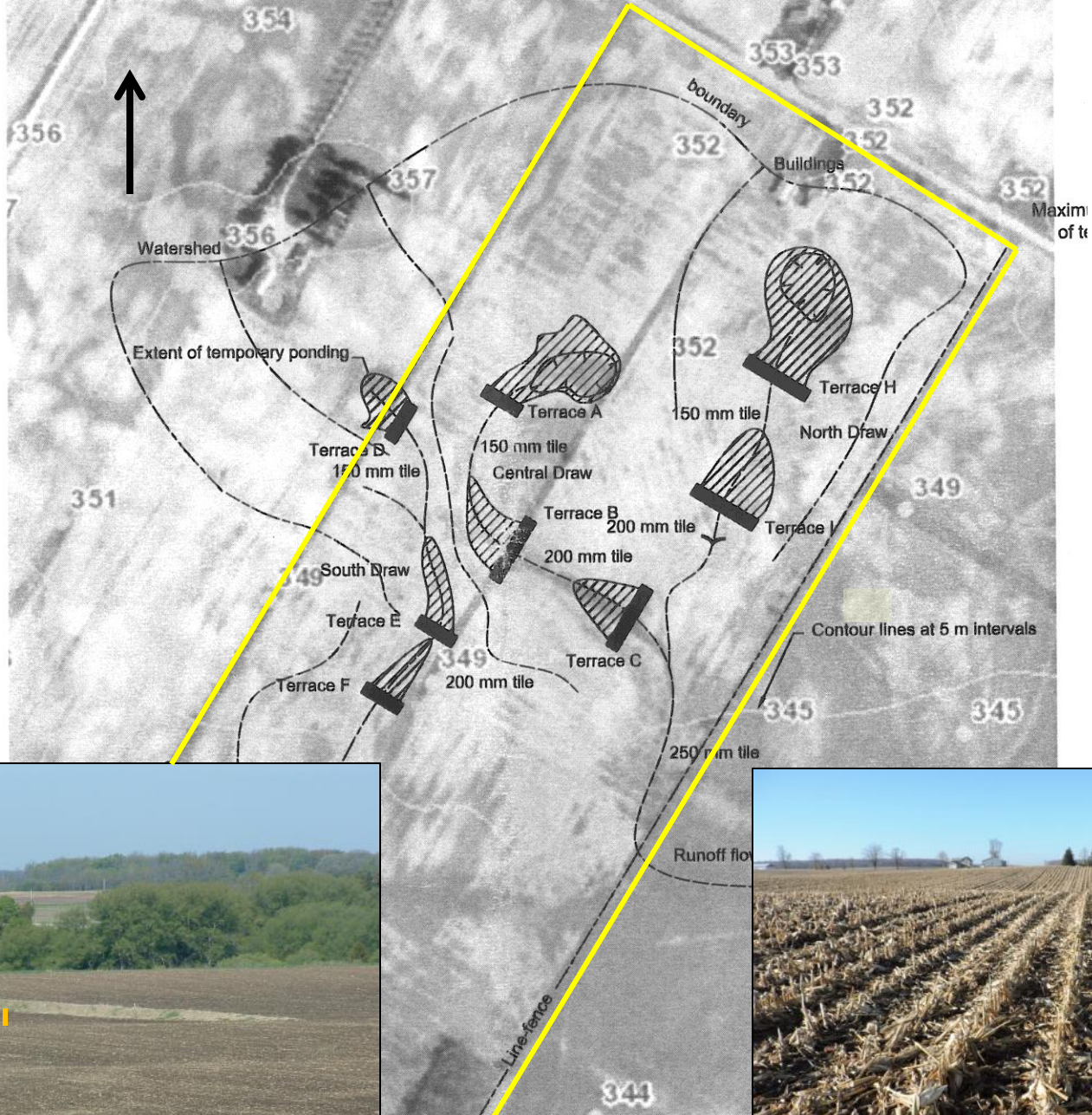




Sediment Traps







Survey, Design, Supervise

Professional Foresters:

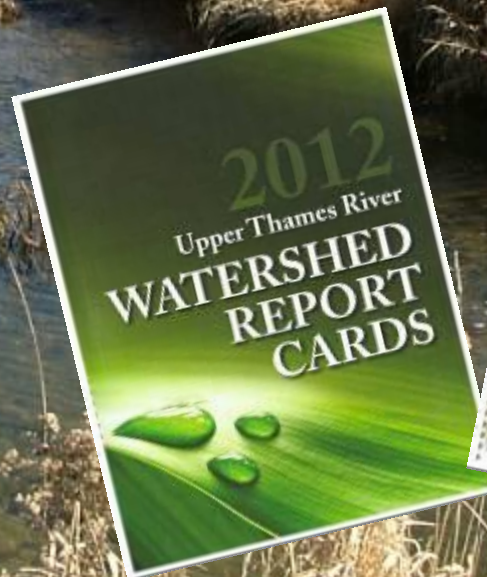
Visit Site, Plans, Plant, Maintenance



Clean Water Program

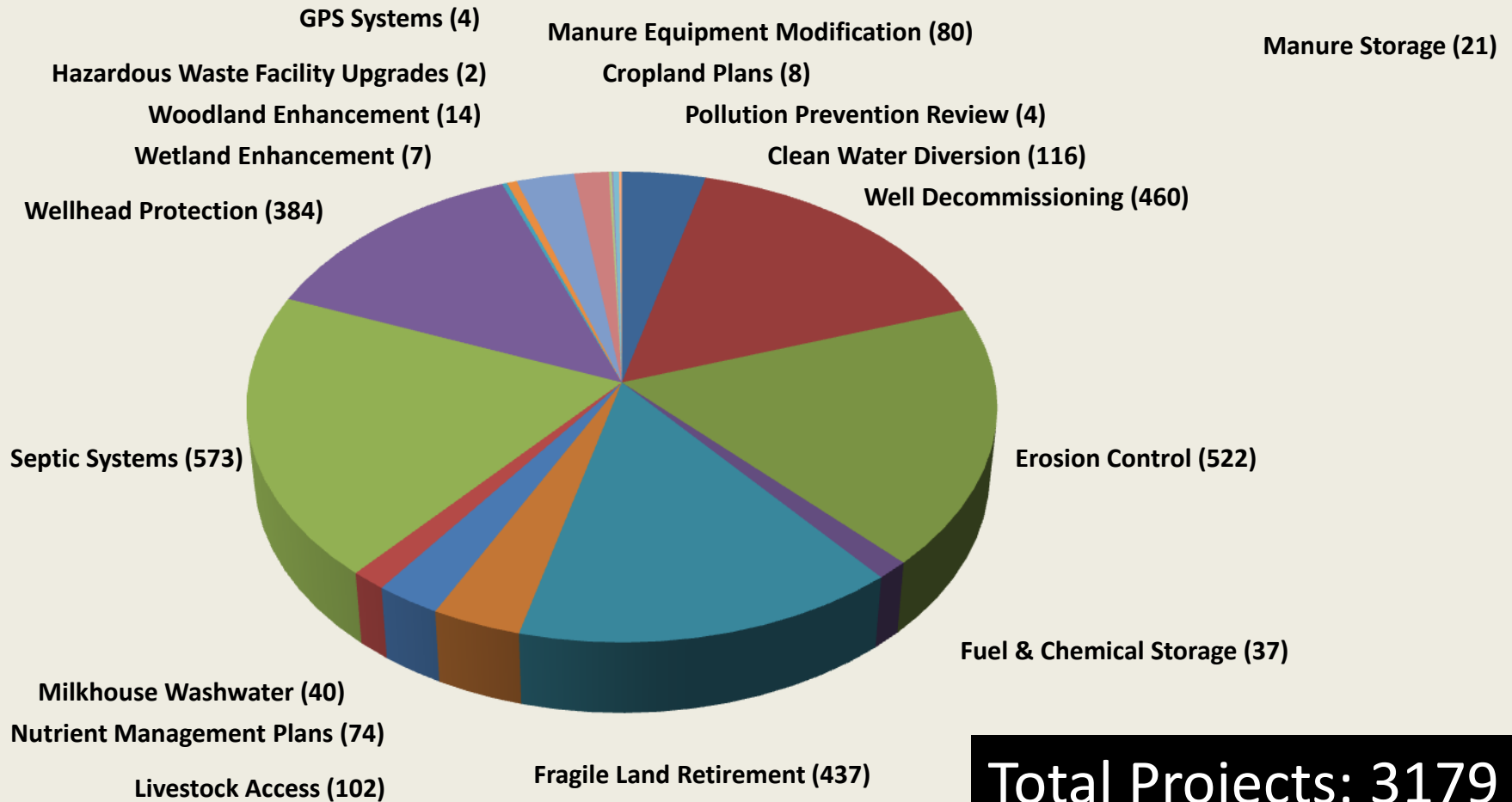


- Municipal linkages
- Farm group links
- One on one extension
- Leverage



Technical and Financial Assistance, Research and Demonstration, Knowledge Transfer

CWP Achievements



Total Projects: 3179



Barnyard runoff... cwp/demo





Bunker Silo Leachate

Innovation



Nitrate and P removal from agr. truckwash



Red sand: 100x reduction
Chitosan: 32X additional to
0.03ug/ml



Bio-reactor research and demonstration

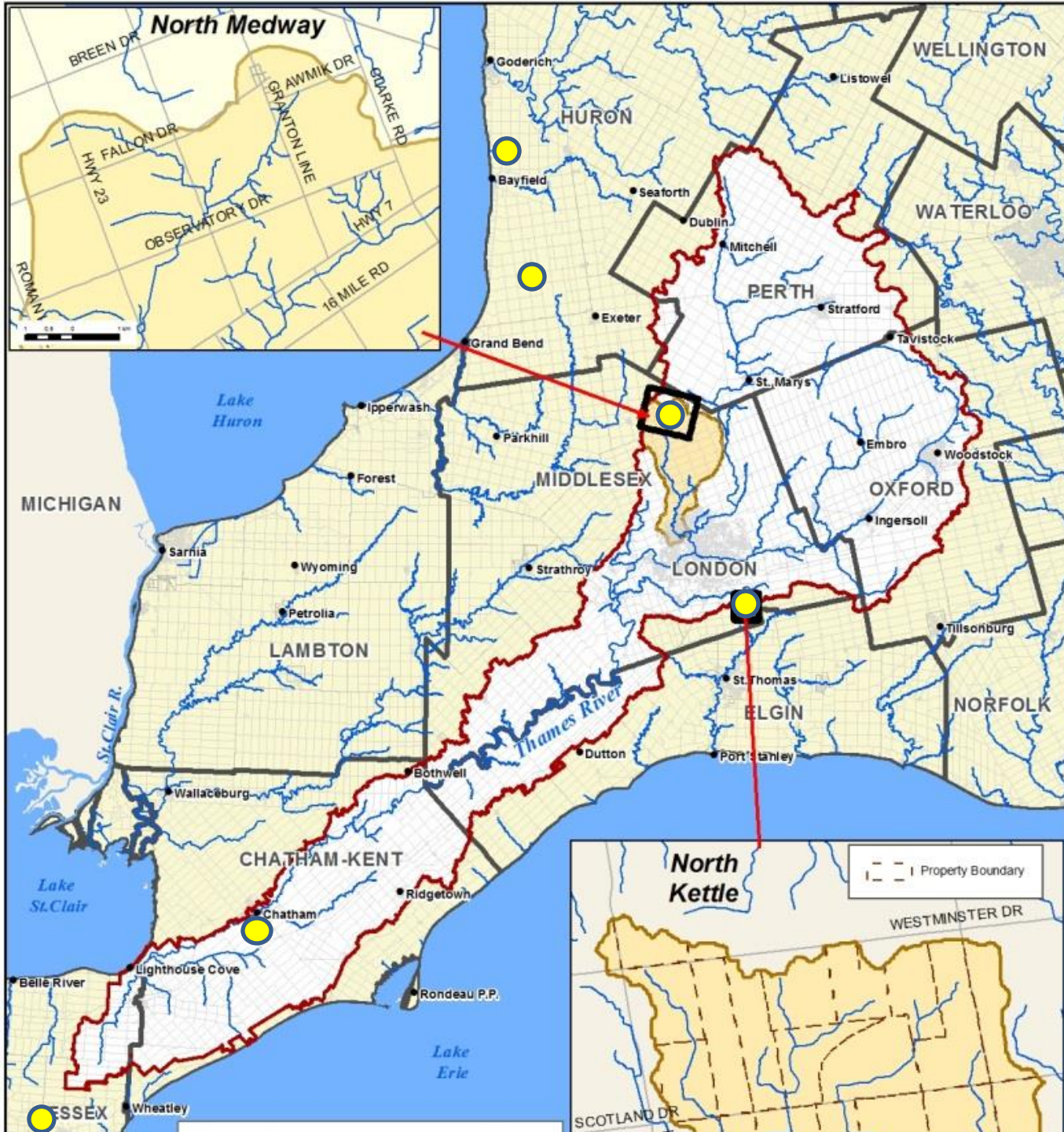


Local Relationships



GLASI : Priority Subwatershed Project

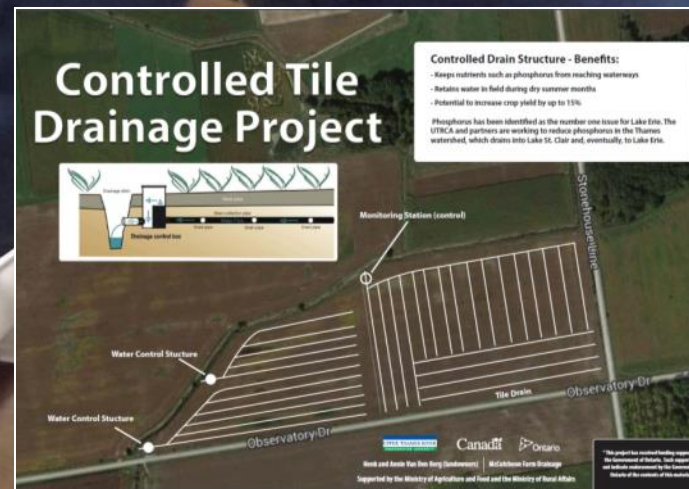
- Phosphorus is the target
- Highly targeted BMPs in a small watershed
- Farmland Health Check-Up
- Cost-share incentives
- Technical support
- Monitor water quality component
- 3 year timeframe

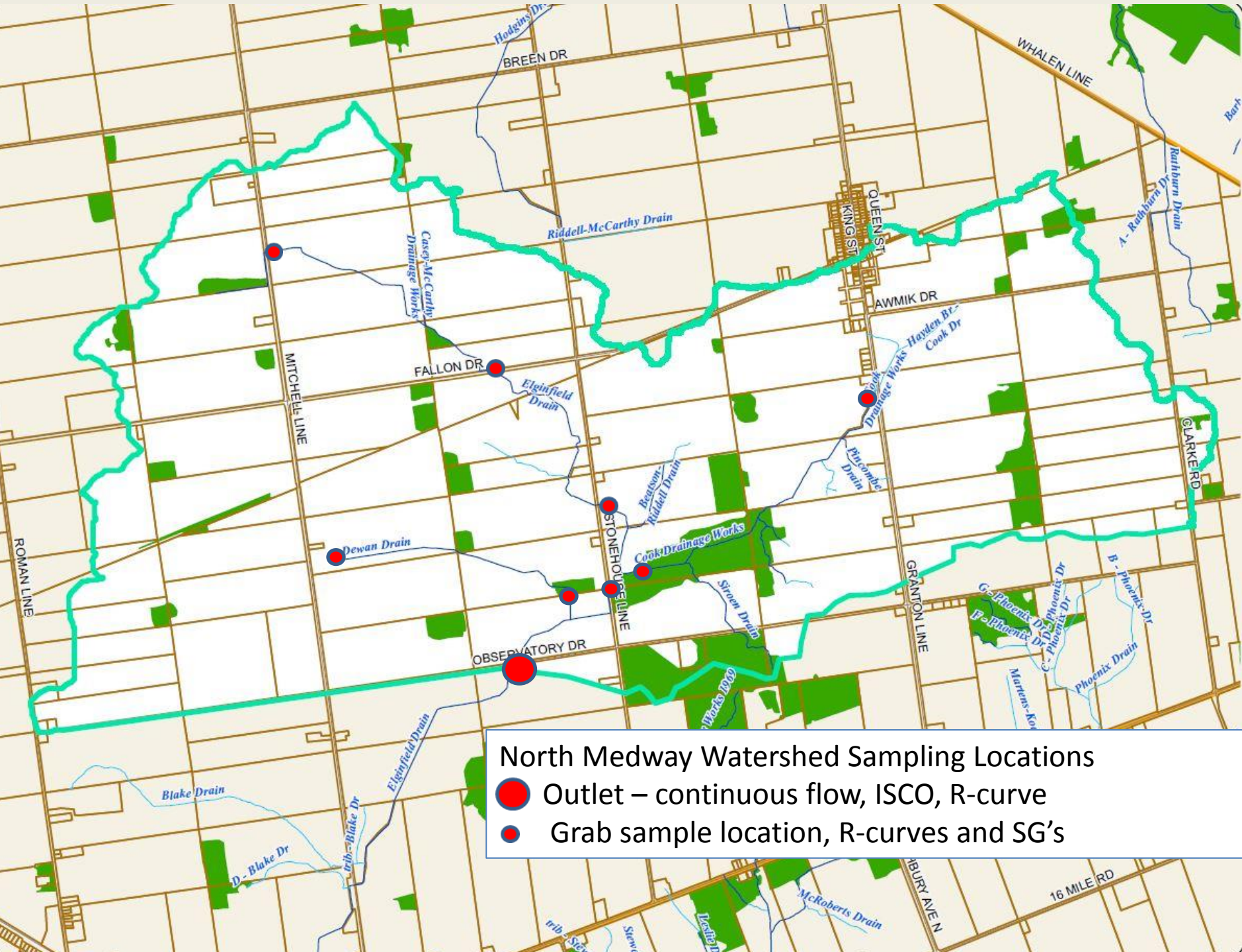


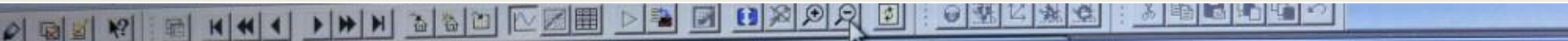
Building on initiatives...

- Friends of Medway,
- Local Drainage Contractor
- SWI
- OMAFRA – COA
- AG. Canada
- U of G

..... GLASI





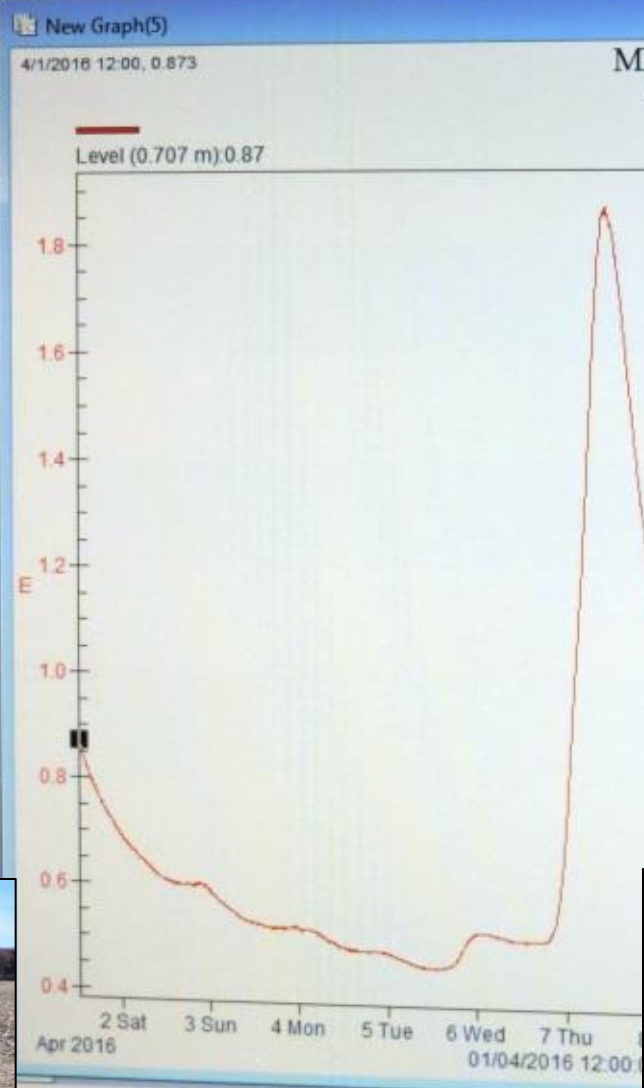


Print | Print Preview | Export

Range: September-11-15

Help

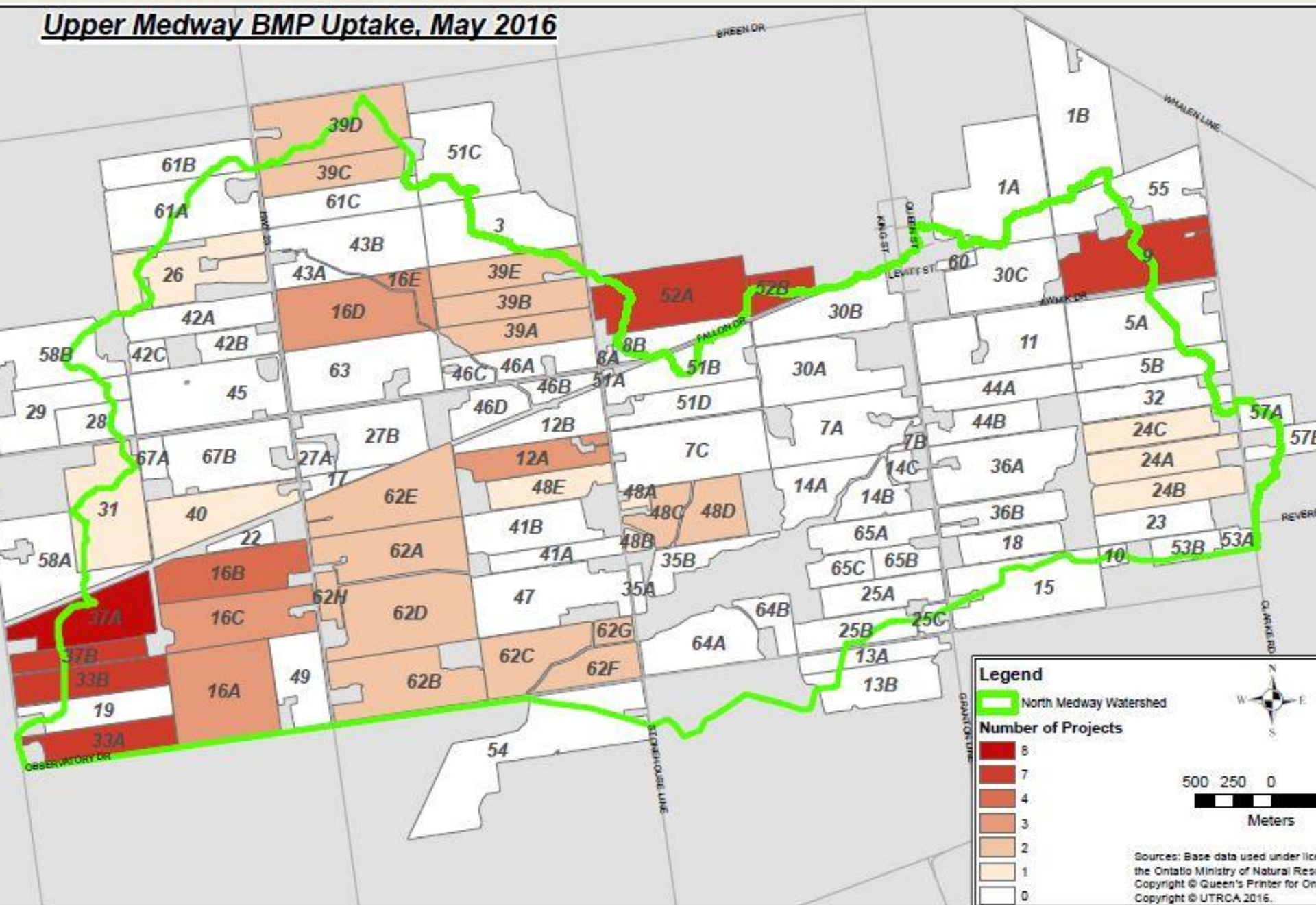
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	✓	08/04/2016 2:36:00 AM	Bottle 16
	✓	08/04/2016 12:36:00 AM	Bottle 15
	✓	07/04/2016 10:36:00 PM	Bottle 14
	✓	07/04/2016 8:36:00 PM	Bottle 13
	✓	07/04/2016 6:36:00 PM	Bottle 12
	✓	07/04/2016 4:36:00 PM	Bottle 11
	✓	07/04/2016 2:36:00 PM	Bottle 10
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	✓	07/04/2016 12:36:00 AM	Bottle 3
	✓	06/04/2016 10:36:00 PM	Bottle 2



'North Medway' Priority Subwatershed: Suite of BMP's



Upper Medway BMP Uptake, May 2016



'Kettle' Priority Subwatershed: Building on lessons learned









Outreach ...



Veldman Family
Erosion Control Structures

Local Landowners tell Conservation Stories

Upper Thames River Conservation Authority (UTRCA) staff met with local landowners over the winter months to gather stories and advice about soil and water conservation techniques.



Nutrient Assimilation in Medway Creek