



Managing Climate Change in Stittsville

Infrastructure & Resilience

November, 2025

Mississippi Valley Conservation Authority (MVCA)

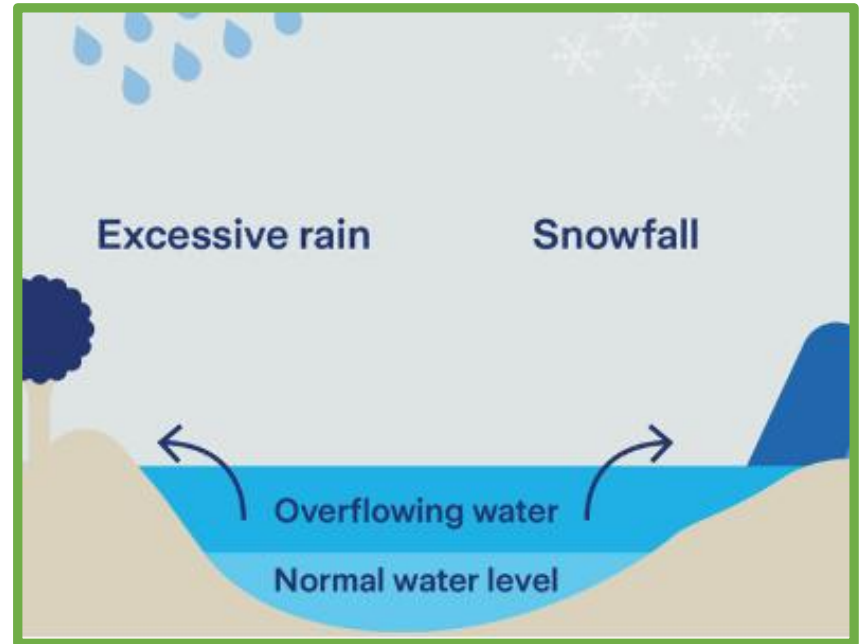
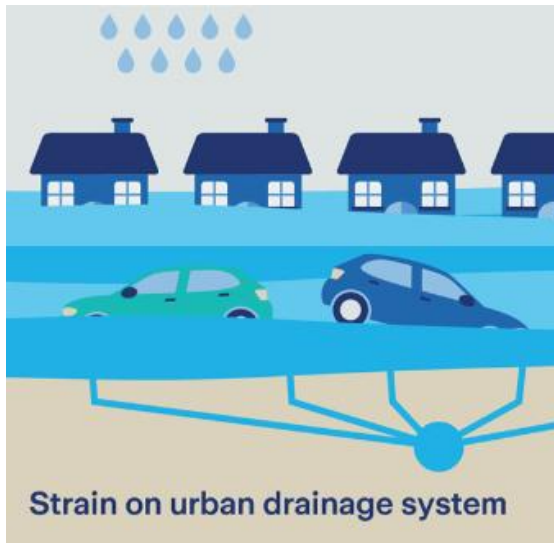


Conservation Authorities

- Natural hazards - identification, mapping, and regulation
 - riverine flooding and erosion, wetlands unstable soils and slopes
 - “permit” function in regulated areas; planning reviews for MNR
- Flood forecasting and warning (FFW)
- Water management (dams and weirs)
 - no structures on the Carp River, only Mississippi River
- Public Awareness and Education
- Drought response coordination
- Management of conservation areas
 - Carp River, Morris Island, Mill of Kintail, Purdon, Palmerston-Canonto, K&P
- Source water protection support to municipalities
 - Town of Carleton Place, Almonte, Village of Carp
- Stewardship

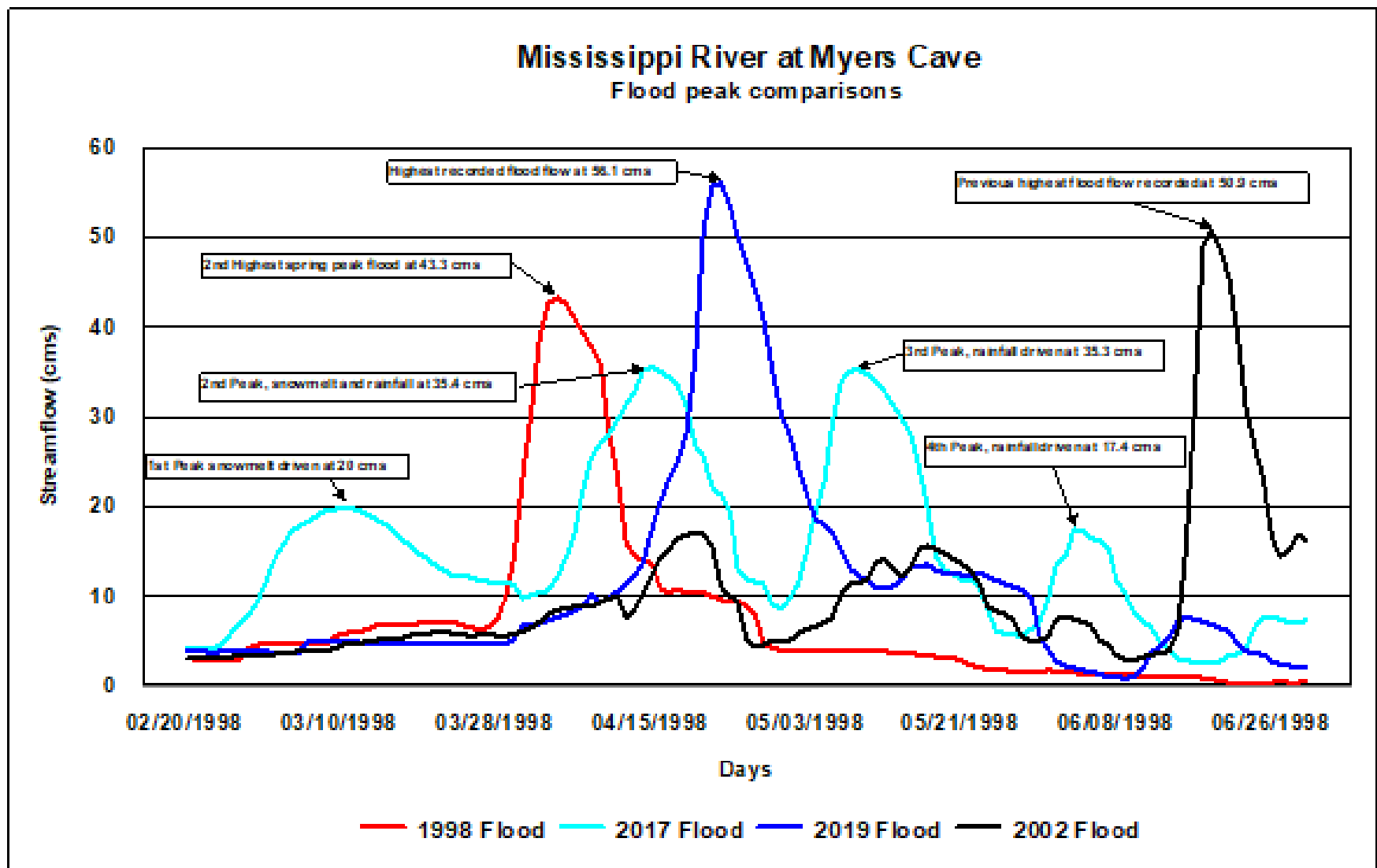
Common types of flooding

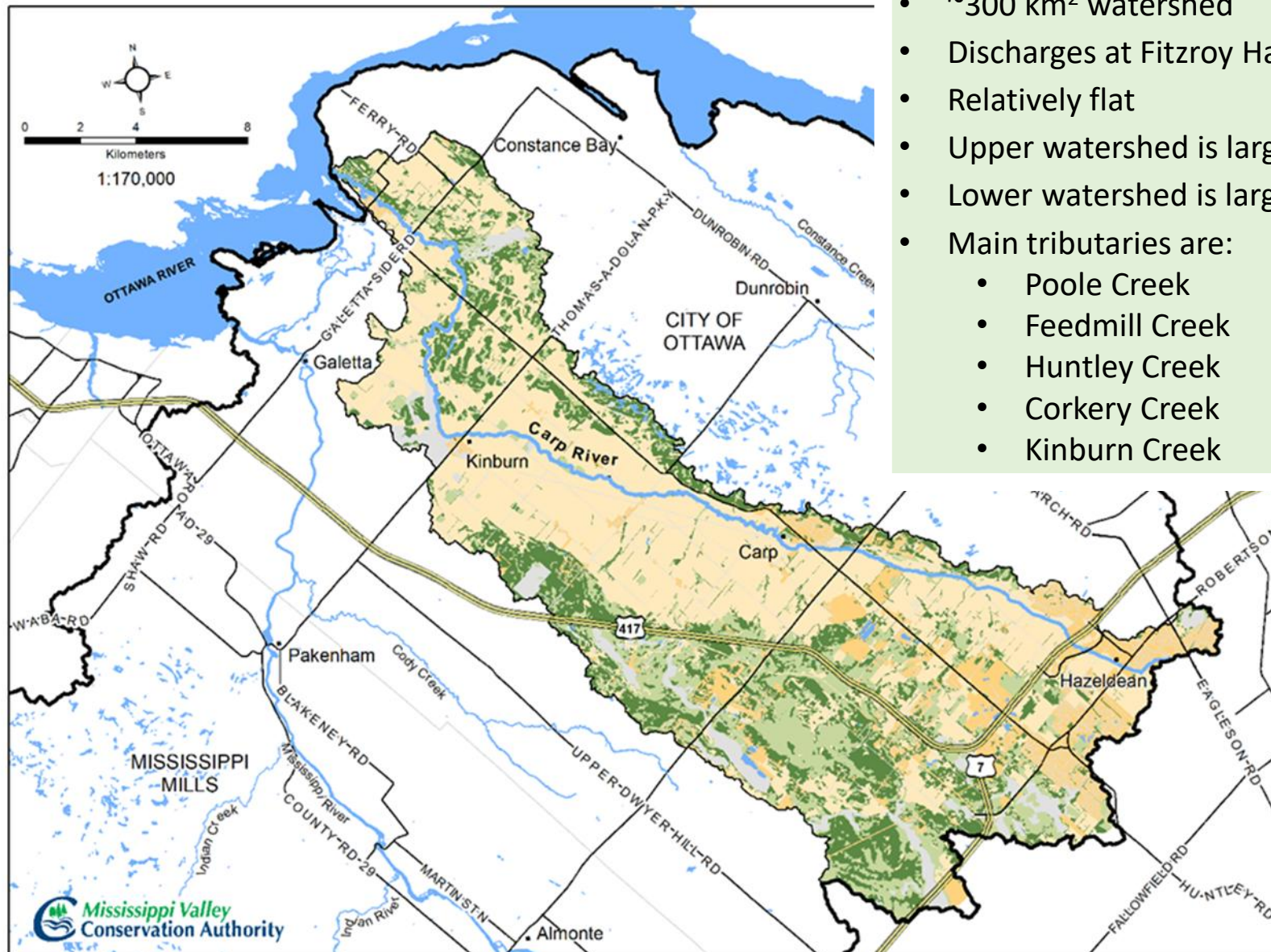
- **Fluvial – riverine (MVCA)**
- Pluvial – storm sewers
- Coastal – storm surges



Source: [Zurich.com/knowledge/topics/flood-and-water-damage/three-common-types-of-flood](https://www.zurich.com/knowledge/topics/flood-and-water-damage/three-common-types-of-flood)

Flooding (sun, snow, rain, soil, land use)





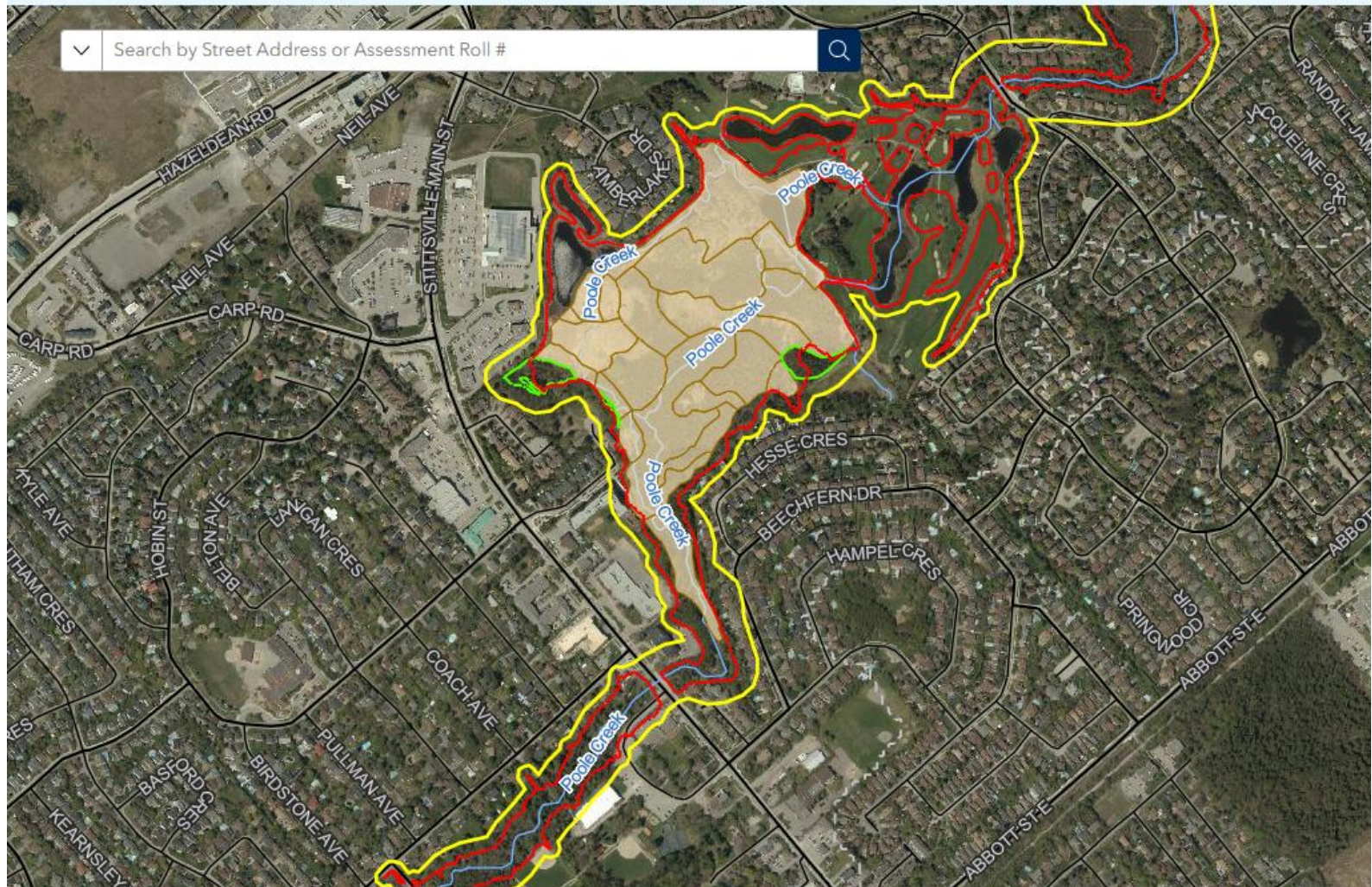
- ~50km long
- ~300 km² watershed
- Discharges at Fitzroy Harbour
- Relatively flat
- Upper watershed is largely urban
- Lower watershed is largely agricultural
- Main tributaries are:
 - Poole Creek
 - Feedmill Creek
 - Huntley Creek
 - Corkery Creek
 - Kinburn Creek

This map is produced in part with data provided by the Ontario Geographic Data Exchange under Licence with the Ontario Ministry of Natural Resources and Forestry and the Queen's Printer for Ontario, 2020

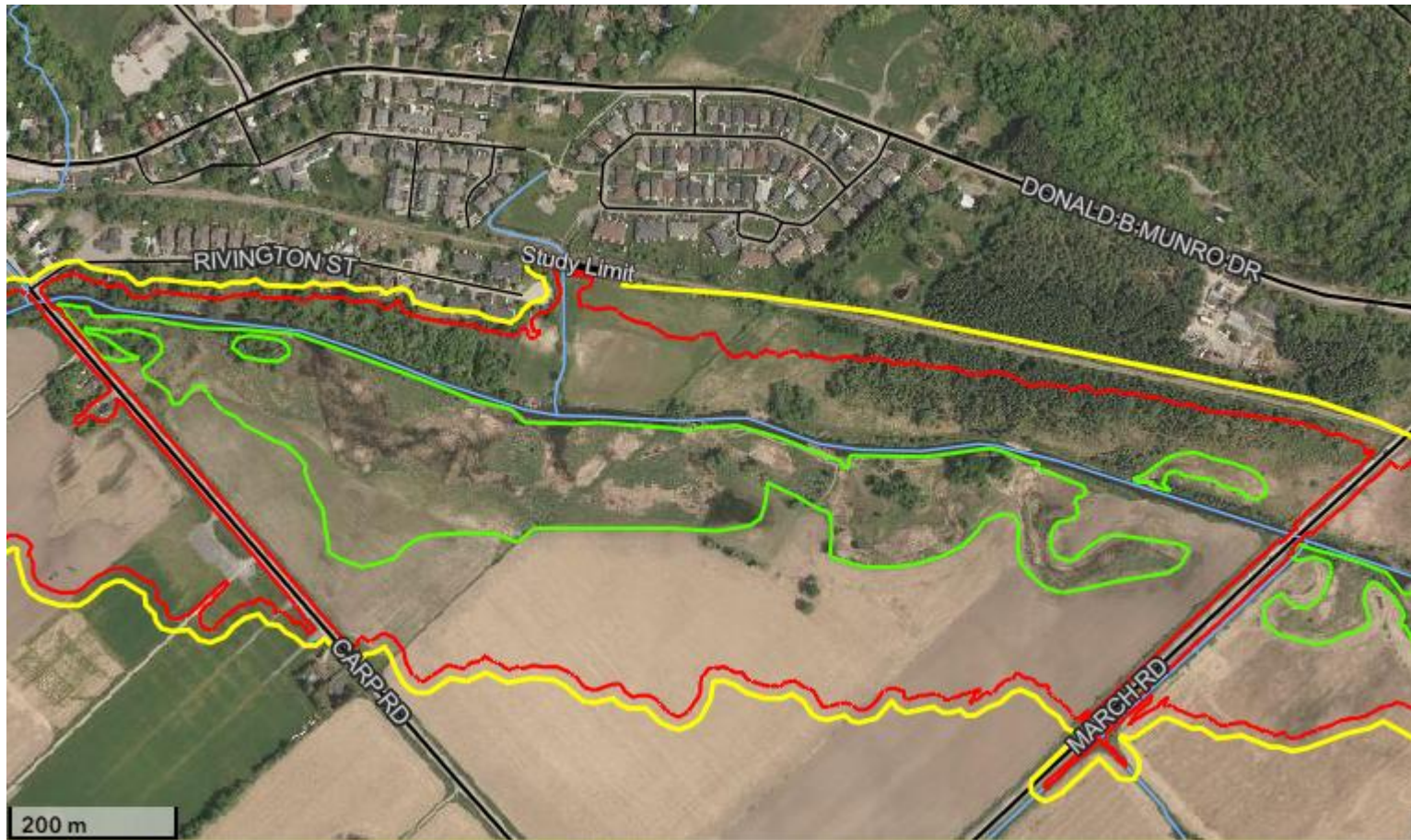
Poole Creek Regulatory Mapping



MVCA Regulation Mapping



Carp River Regulatory Mapping



Carp River Restoration Project

~4 km river reconfiguration from
Hazeldean Road to Richardson Side
Road

Realigned channel: a meandering channel helps to prevent shoreline erosion.

Riparian zone: extending from waters' edge to top of bank, provides a buffer to protect the quality of stream water from adjacent runoff, and to reduce riverbank erosion.

Habitat pond: designed to convey and store water, mitigating flooding and erosion.

Wet meadows: the ground fluctuates between brief periods of inundation and longer periods of saturation. Designed to increase water storage capacity in the corridor during major storm events.



Carp River Conservation Area

MVCA Stewardship Programs

- **Green Acres Reforestation Program:** tree planning within the City of Ottawa.
- **Private Land Forestry Programs:** large scale tree planting.
- **Ash Tree Replacement Program:** assist landowners within the City of Ottawa affected by the Emerald Ash Borer on private property.
- **Volunteer Planting Events:** large scale planting events along shorelines in partnership with watershed volunteers.
- **Shoreline Naturalization Program:** provides advice and support to private landowners



Inform Yourself

1. **What watershed** do you live or own property in?
 - mvc.on.ca
 - rvca.ca
 - conservationontario.ca/conservation-authorities/find-a-conservation-authority
2. **Check** if part of your property is in a regulated area?
3. **Call us** before you start spending money on a project.
4. **Sign-up** for our FFW notifications:
 - info@mvc.on.ca OR
 - bottom of mvc.on.ca

Take Action

1. **Check** your eavestroughs, downspouts, site grading
 2. **Check** your sump pump
 3. **Maintain or increase** opportunities for water infiltration.
 4. **Maintain or increase** robust vegetation/plantings.
 5. **Properly store** hazardous materials.
 6. **Install and maintain** rain barrels.
 7. **Check and understand** your insurance coverage.
 8. **Enquire** about stewardship programs.
 9. **Contribute** to Citizen Science.
 10. **Call 311** if you notice system blockages/back-ups.
- } Visit: www.mvc.on.ca