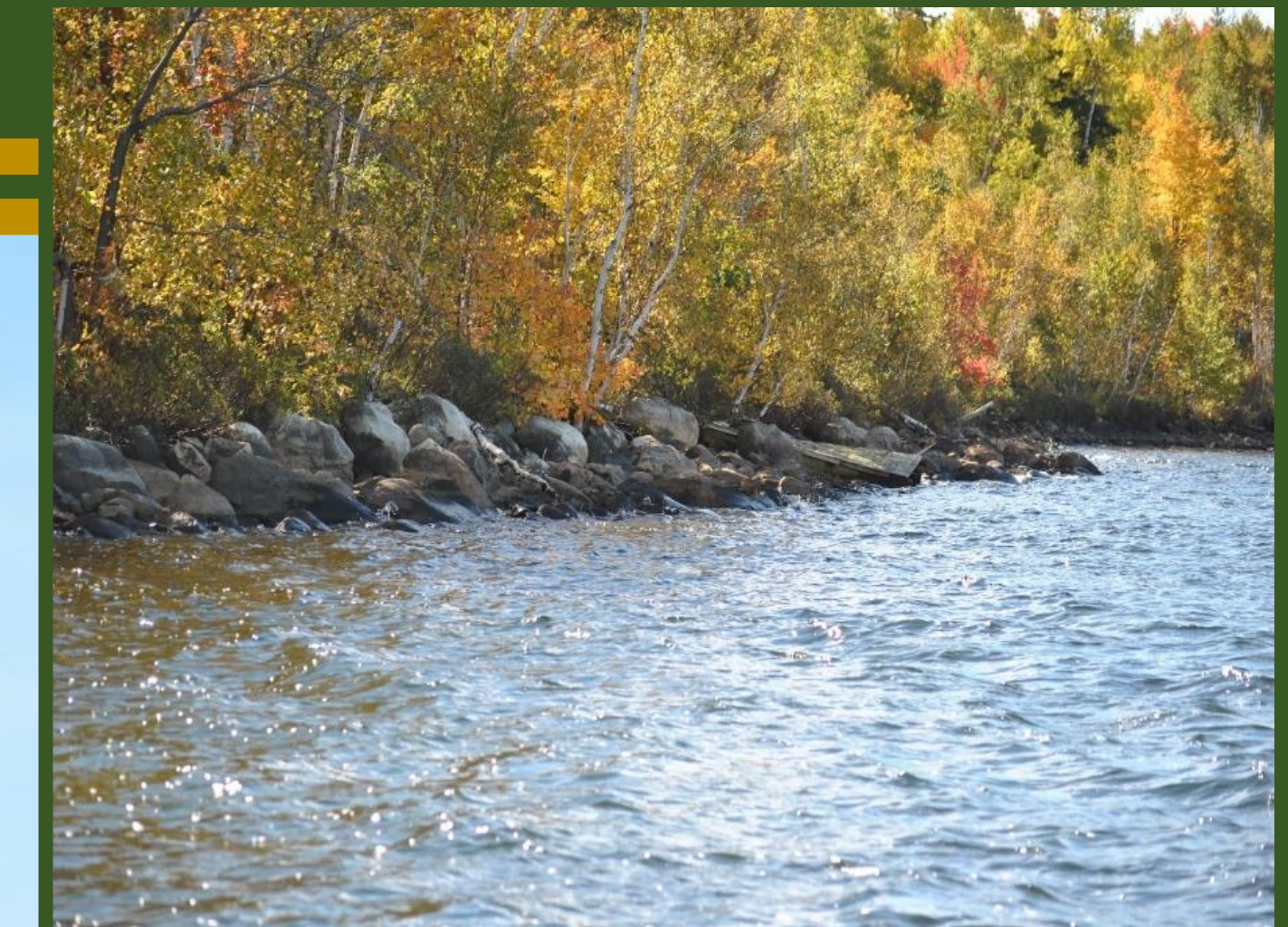


Ramsey Lake Subwatershed Study And Master Plan



Public Information Centre #1

December 8th,
2016



Objective of Public Information Centre #1

Tonight's Public Information Centre (PIC) will:

- Introduce the study area
- Provide an overview of the Subwatershed Study purpose and objectives
- Review the Subwatershed Study process
- Provide an opportunity for the public to review the work completed to date as well as upcoming work
- Allow the public to provide input to the study, and to discuss questions and issues with staff



Study Purpose and Objectives

Study Purpose

- Develop a Subwatershed Management Plan to protect, maintain and enhance surface water, groundwater, and natural resources of Ramsey Lake and its tributaries through environmentally sound policy and management actions



Plan Objectives

- Protect and restore existing natural resources
- Protect and enhance water quality
- Protect and enhance groundwater resources
- Develop strategies to minimize flood risks, erosion, and other impacts on natural systems due to future urban development and climate change

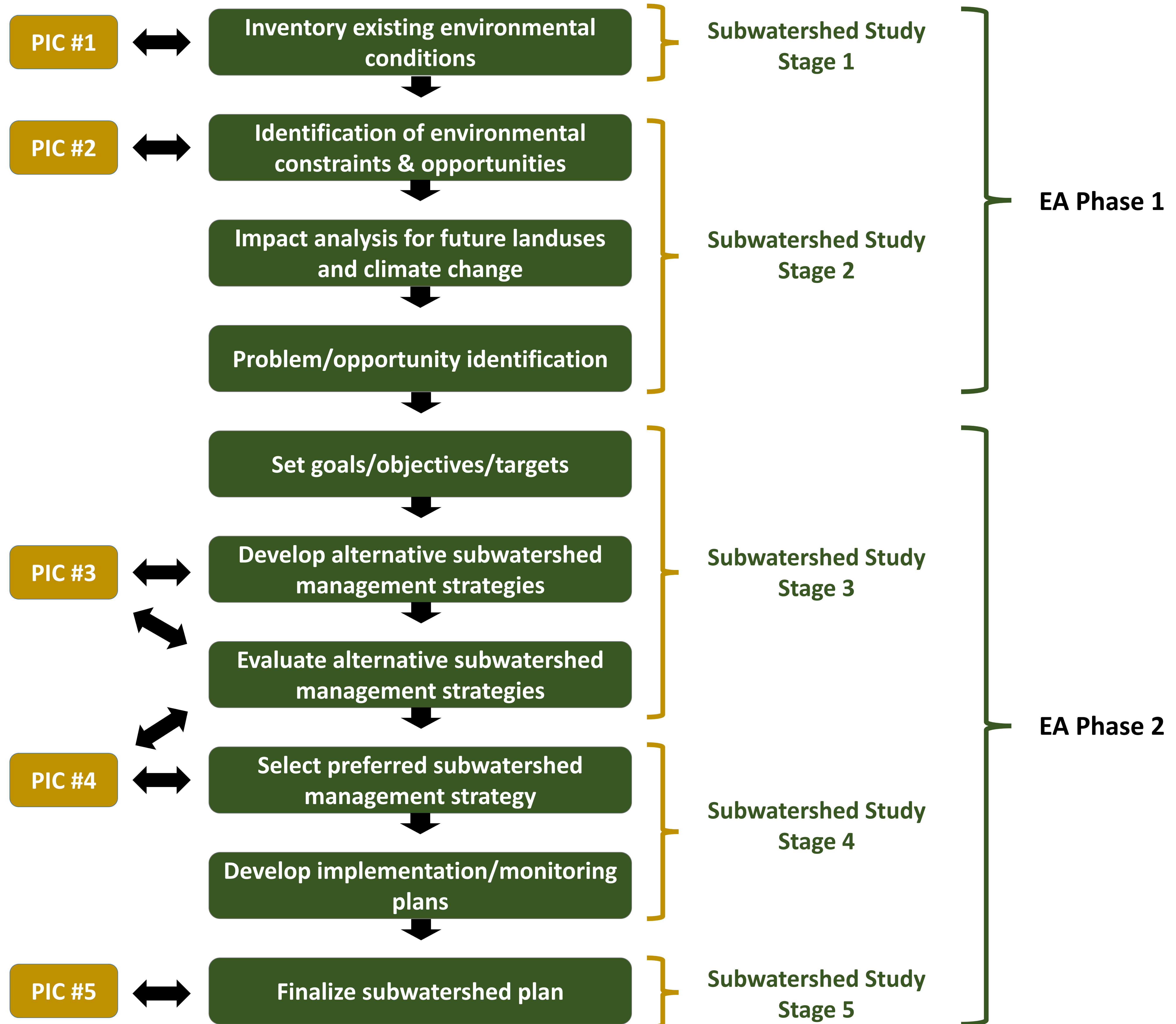


Subwatershed Study/Environmental Assessment Process

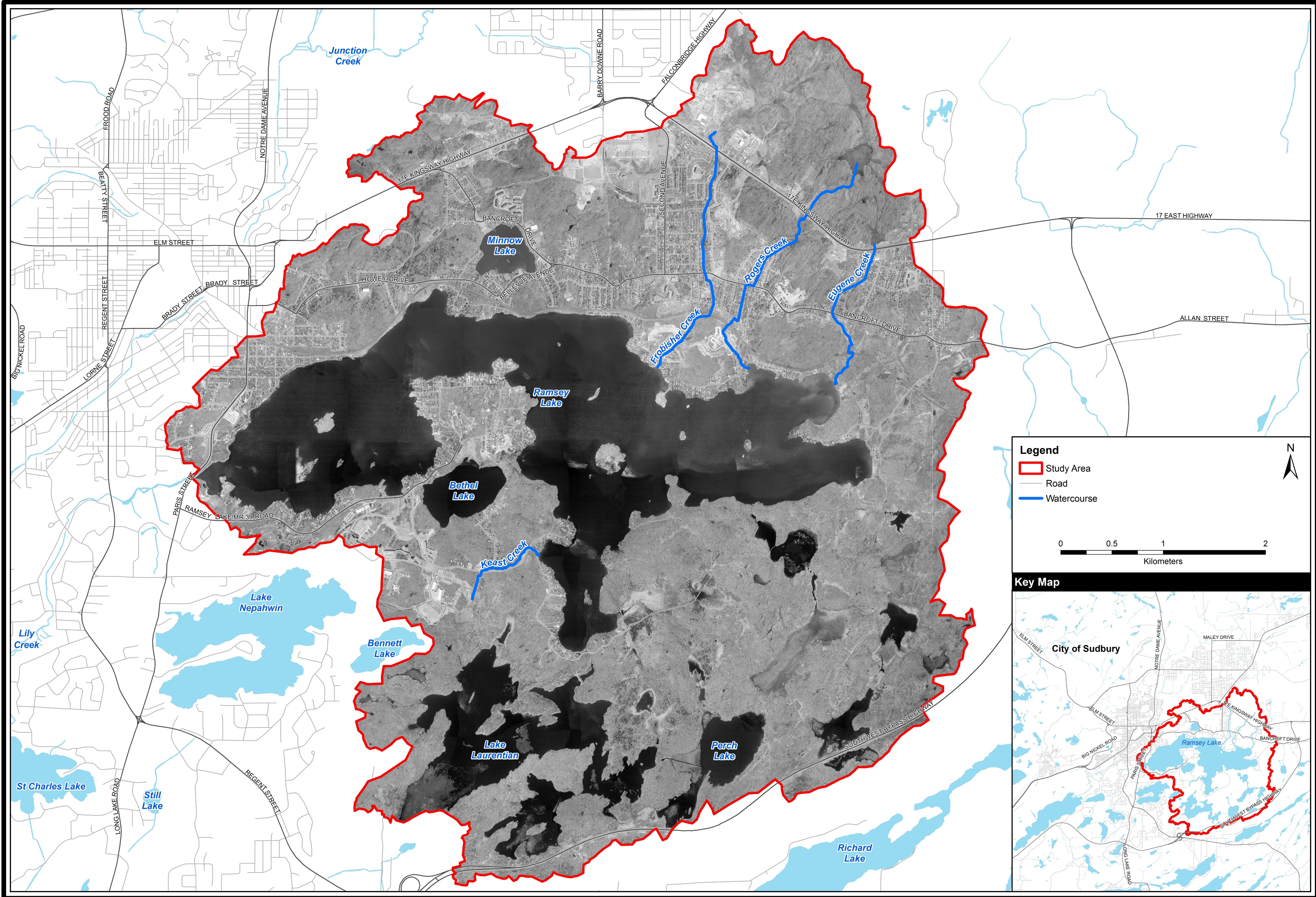
We are here

The Subwatershed Study is being conducted as a Master Plan and is intended to satisfy Phases 1 and 2 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment Act (Class EA) process. This will involve a process of problem/opportunity identification, evaluation of alternative solutions, and selection of a preferred solution. Stakeholder consultation is an important part of the EA process and a key component of the study.

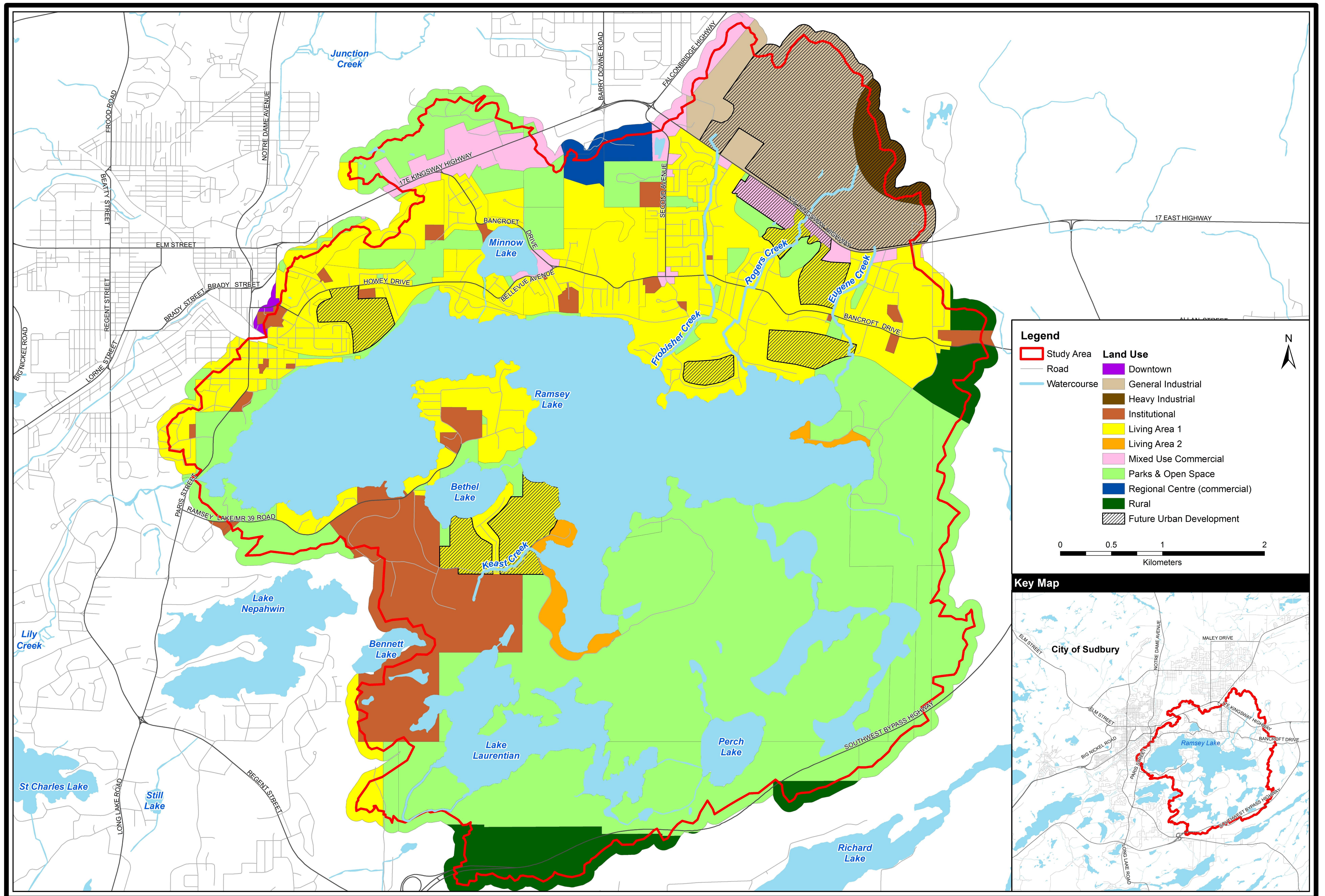
Consultation with Stakeholders, the Public, and Agencies



Study Area



Landuses



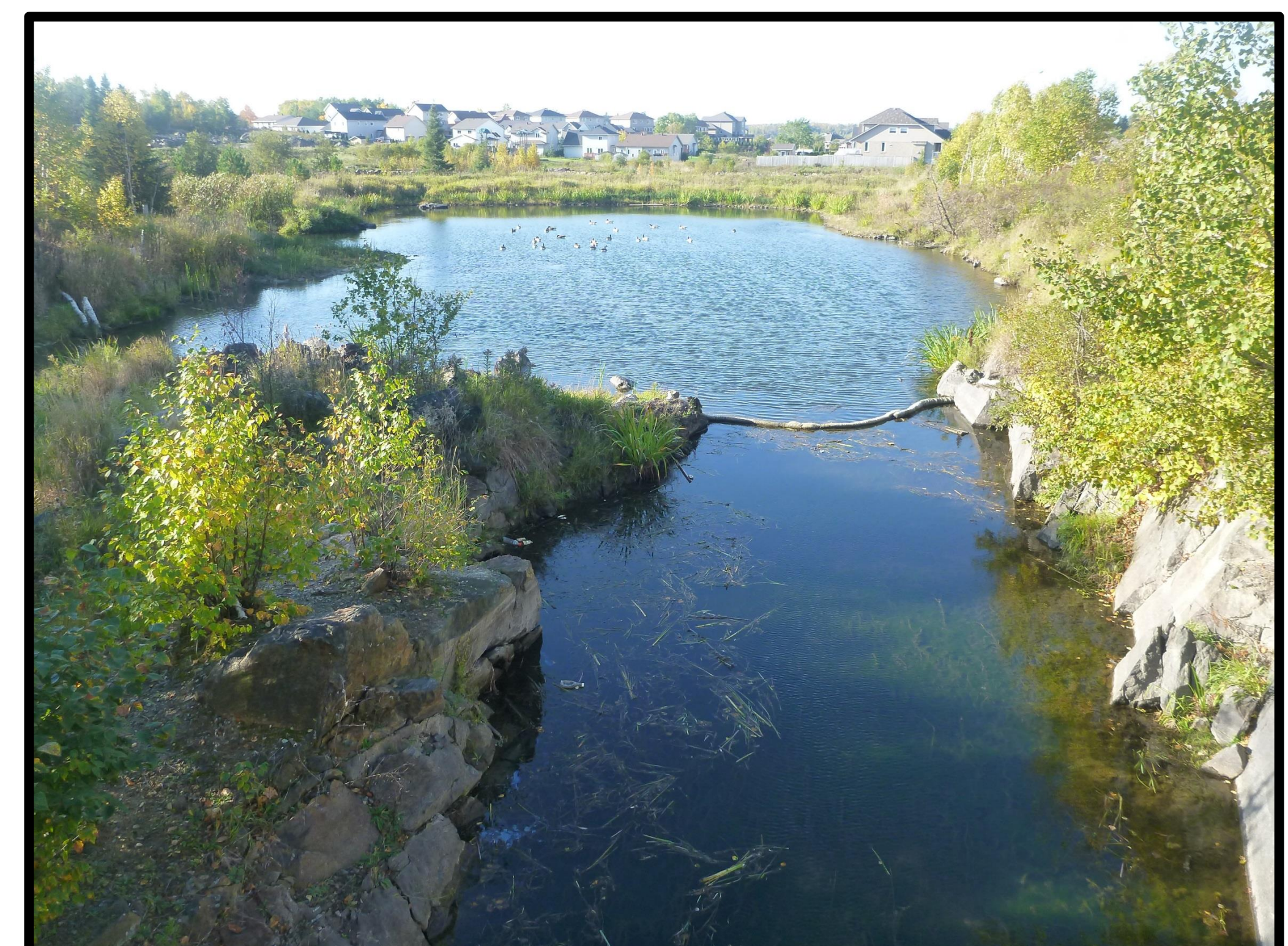
Water Quality

Objectives

- Identify sources of pollution and water quality trends
- Identify approaches to address water quality issues and improve water quality

Study Tasks:

- ✓ Review historical water quality data and data collected on biological indicators of water quality (complete)
- ✓ Assess existing water quality conditions (complete).
- ✓ Identify known/potential point/non-point sources of pollution (to be completed)



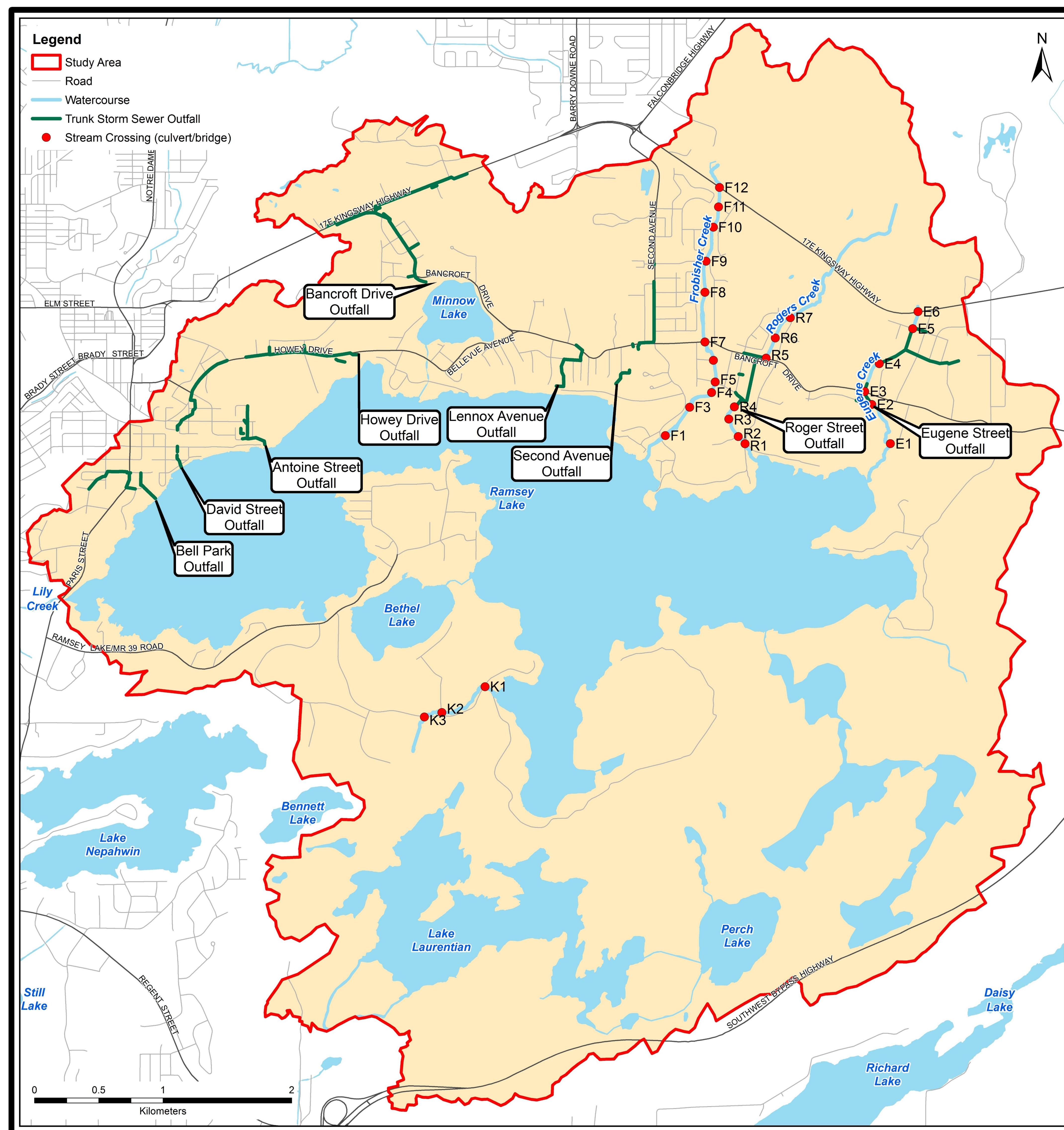
Hydrology / Hydraulics / Flooding

Objectives

- Identify flood hazards
- Identify capacity constraints

Study Tasks:

- ✓ Bridge/culvert surveys (complete)
- ✓ Hydrologic/hydraulic modelling (in progress)
- ✓ Map flood hazard lands (to be completed)
- ✓ Sensitivity analysis for potential climate change (to be completed)
- ✓ Identify stormwater management requirements for new developments (to be completed)



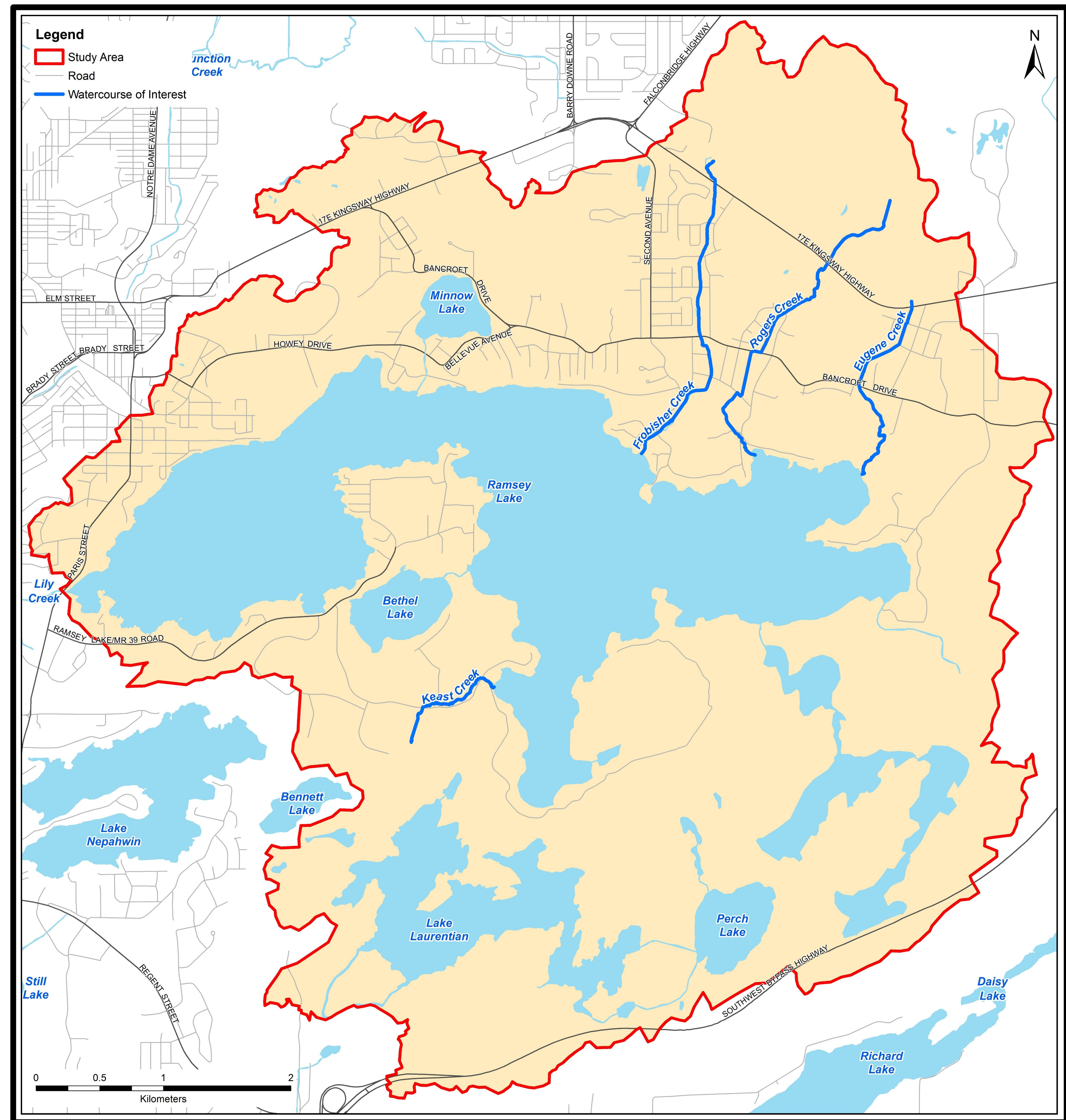
Erosion and Stream Morphology

Objectives

- Stream characterization
- Identify erosion issues

Study Tasks:

- ✓ Field Investigations and stream measurements (complete)
- ✓ Identify erosion sites and geomorphologic hazards
- ✓ Identify stream restoration opportunities (to be completed)
- ✓ Identify erosion control requirements for new developments (to be completed)



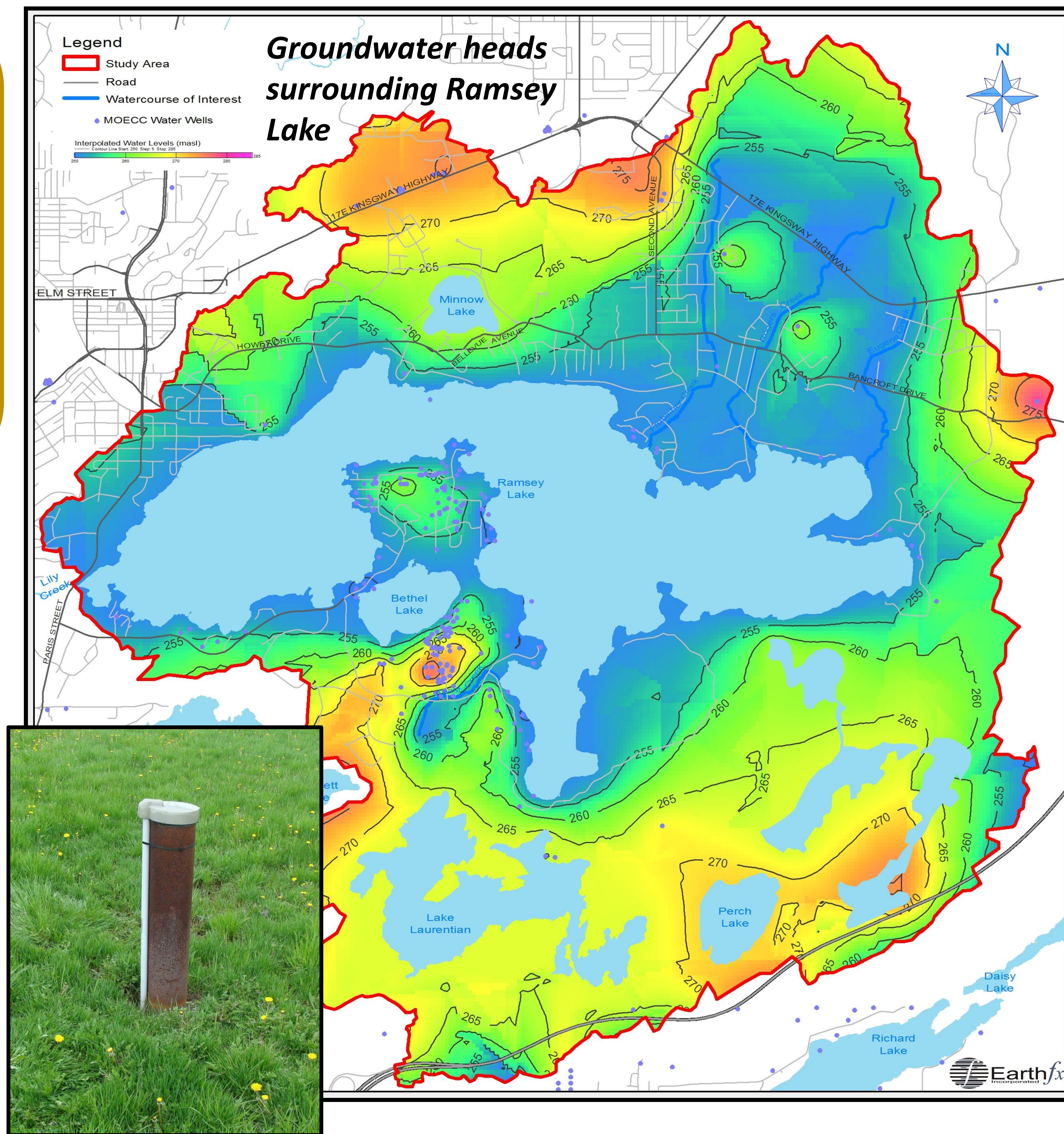
Hydrogeology

Objectives

- Characterize hydrogeologic conditions and identify system components that may be sensitive to future land use changes
- Identify opportunities for mitigating negative long-term impacts to groundwater resources

Study Tasks:

- ✓ Compilation and review of existing information and datasets related to regional geologic and hydrogeologic conditions (completed)
- ✓ Groundwater resource assessment (to be completed)
- ✓ Provide mitigation and management strategies for maintaining groundwater system integrity (to be completed)
- ✓ Long-term groundwater monitoring programme recommendations (to be completed)



Aquatic Resources

Objectives

- Identify aquatic features/habitats that are sensitive or of high importance to aquatic communities
- Identify need for additional assessment and monitoring of aquatic resources
- Identify opportunities to preserve, enhance, or restore aquatic habitats

Study Tasks:

- ✓ Review existing information related to aquatic biota (fish, invertebrates) and their habitats (complete)
- ✓ Describe aquatic habitat conditions in lake and tributaries (complete)



Image from huntfishmanitoba.ca



Illustration by Virgil Beck



Image from huntfishmanitoba.ca

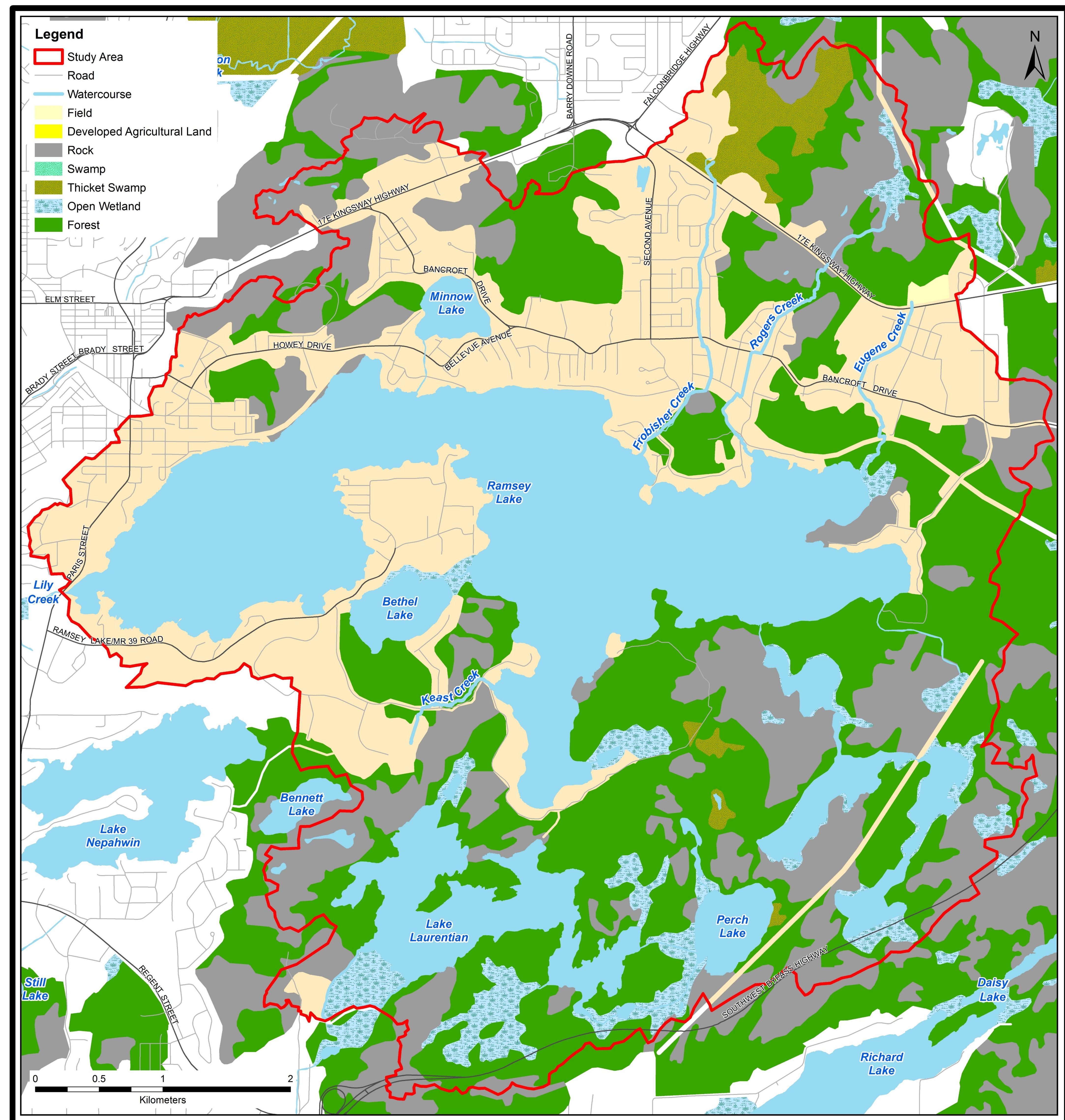
Terrestrial Resources

Objectives

- Identify and assess the sensitivity of terrestrial features and functions to inform the natural heritage system protection areas as well as habitat enhancement, restoration, and management opportunities. The project team will focus on areas which may be potentially impacted by proposed mitigation areas and activities

Study Tasks:

- ✓ Consolidation of existing information (complete)
- ✓ Natural heritage assessment (ongoing)
- ✓ Gap analysis (to be completed)
- ✓ Adaptive management plan (to be completed)
- ✓ Identification and classification of natural heritage constraints (to be completed)
- ✓ Restoration/enhancement and protection measures (to be completed)
- ✓ Implementation and monitoring recommendations (to be completed)



How You Can Help

We look forward to working through the Ramsey Lake Sub-Watershed study with residents and stakeholders. If you wish to participate, please complete our sign-in sheet at the entrance and we will send you updates on study progress and opportunities to participate.

For this first stage of the study to document the *Existing Conditions* for the Ramsey Lake Sub-Watershed, we wanted to introduce the study and share our preliminary findings with you. We are interested to hear from you on observations and input regarding additional issue, opportunity (for enhanced of ecosystem health) and constraint (sensitive to disruption) areas within the Ramsey Lake sub-watershed.

To share you observations and ideas, or to obtain further information, please:

- Speak to any of our representatives present tonight; they will be pleased to help you
- Complete our feedback survey on paper (available at the registration desk), or online at: <http://www.greatersudbury.ca/living/lakes-facts/watershed-study-2016/>
- Contact the study project managers at any time:

Paul Javor, M.A.Sc, P.Eng.
City of Greater Sudbury
Phone: 705-674-4455 ext. 3691
Fax: 705-560-6109
Email: Paul.Javor@greatersudbury.ca

Dave Maunder, P.Eng.
Aquafor Beech Limited
Phone: 905-790-3885 ext. 290
Fax: 905-790-4090
Email: maunder.d@aquaforbeech.com

The display boards from tonight's meeting are available online at the City website noted above.