



The Fate and Transport of Chloride in Urbanizing Catchments of the Lake Simcoe/Southeastern Georgian Bay Watersheds

Environment Canada Lake Simcoe-Southeastern Georgian Bay Clean-Up Fund grant \$212,106; PI: Claire Oswald

Significance: This study will help to inform adaptive winter maintenance management strategies and identify salt vulnerable areas to be protected.

In seasonally frozen environments, de-icers (chloride salts) are widely used to maintain safe driving conditions on roads and other impervious surfaces. While the beneficial role of road salts for public safety is unequivocal, the environmental consequences of their use pose risks to stream and lake ecosystems.

Goal: To improve our understanding of the dynamics and ecological effects of chloride across a gradient of urbanizing catchments in the Lake Simcoe and Southeastern Georgian Bay watersheds.