



synectics
SAFETY SPECIALISTS

A section of Bovaird Road (formerly Highway 7) in the Region of Peel was the focus of an environmental assessment. The road, ranging from a rural two-lane road in the west to an urban four-lane road with a continuous left-turn lane in the east, had been experiencing a significant amount of congestion. Due to this, the road had been slated for capacity improvements. Little was known, however, about the collision experience of the road section, and what possible treatments could improve the road's safety.



Synectics was tasked to carry out an analysis of the collision records along the entire study area. The road was divided into five major intersections and road sections. Hazardous locations were identified through the development of a hazard risk score (HRS). This HRS is a means of weighting the overall severity and frequency of collision at each location and the overall severity and frequency of collisions at all locations combined. Based on this, five locations were found to have a collision performance that exceeded the expected level. These five locations were then the focus of a detailed collision analysis and subsequent identification of countermeasures. In addition, safety improvement opportunities were identified based on field investigations.