

### 10.1.3 Oxidants

Transboundary flow of oxidants and precursor pollutants has been observed in southwestern Ontario for many years. The high ozone concentrations are believed to be associated with warm humid air moving into the area from the south and southwest directions. There is some evidence that local emissions cause increased concentrations of ozone downwind of the sources. Researchers have reported vegetation damage in the areas north of Lake Erie with high ozone concentrations.

### 10.1.4 Organics

The Joint Air Pollution Study of the St. Clair-Detroit River areas by the International Joint Commission reported benzo(a)pyrene concentrations in samples of suspended particulate matter collected in the Port Huron, Windsor and Detroit areas during 1967 and 1968. The results showed elevated levels of this carcinogen in parts of Windsor and Detroit. The Windsor concentrations were similar to those reported in cities which have steel mills. Since there are no steel mills in Windsor, the suspected cause of the elevated organics concentrations is local transboundary flow from the steel mills in Wayne County, Michigan.

### 10.4.5 Suspended Particulate Matter

Much of Detroit, Michigan and Windsor, Ontario experience unacceptably high concentrations of suspended particulate matter. The International Michigan-Ontario Air Board report for 1980 indicates, that for most of the Detroit-Windsor area, the air quality objectives for particulate matter were exceeded in spite of the fact that there have