

# NORTH LAGOON RECOVERY SYSTEM

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Canadian National

Winnipeg, Manitoba



## Project Description

KGS Group designed and supervised the construction of the North Lagoon Recovery System at CN Symington Yard in Winnipeg, Manitoba. The objective of the recovery system was to capture liquid petroleum hydrocarbons (LPH), primarily oils, to prevent further discharging of the LPH to the North Lagoon drainage system, as well as improve the aesthetics of the North Lagoon. Prior to the construction of the recovery system, LPH present on the water surface was periodically removed by vacuum truck, which proved to be very difficult and expensive.

The recovery system consisted of one collector pipe, connecting six underdrains used to collect hydrocarbons beneath the tracks, a collection sump to separate LPH and water via gravity, and an angle pump that discharges the separated water into the North Lagoon. In addition, hydrocarbon impacted soil was excavated from the floor and walls of the North Lagoon.

KGS Group continues to provide on-going engineering support services, including site inspections, during the present operation phase of the North Lagoon Recovery System.