

CASE STUDY: Emergency Response - Response Fuel Recovery and Water Treatment

Maine Highway Close to the Canadian Border

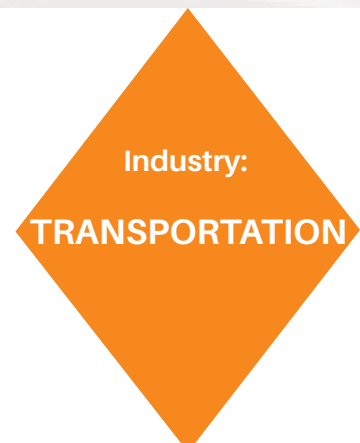
Wallagrass, ME

BACKGROUND:

Fuel truck carrying 9000 USG of Gasoline rolled into the ditch of the highway causing the accidental release of gasoline contents, which ran through the ditch and penetrated a bedrock aquifer. Gasoline and impacted groundwater began day-lighting in the roadside ditches downhill from the accident site.

SCG built and supplied the system within two weeks.

Emergency situations call for immediate action, as the gasoline and contaminated groundwater were actively spreading.



General Scope of Work:

Design a gas and groundwater recovery and water treatment system.

- * Recovery system contained two discharge streams each at 75 USGPM with a total flow rate of 150 USGPM (568 liters per minute).
- * Water treatment system built to separate gasoline from water. Dissolved phase hydrocarbons, suspended solids, and metals required treatment for direct discharge into a freshwater receptor (stream).
- * Effluent discharge criteria was extremely stringent given the sensitive receptor and optics of the program.

Results

The recovery and water treatment system was operated by trained SCG personnel. Operational efficiency was above 95% and the strict freshwater aquatic criterion was never exceeded ensuring effective implementation of the remediation and water treatment program leading to rapid (three month) program completion.

