

## Large Scale Contaminated Soil Excavation Project

North Providence, RI

A developer had purchased a 22,000 square foot abandoned industrial building with the intent of demolishing the structure and developing 7 house lots. When originally constructed, petroleum-contaminated urban fill had been used as backfill within the building's foundation resulting in soil impacts up to 10 feet in depth.

The developer retained Lake Shore Environmental, Inc. (LSE) to prepare a soil management plan for submission to RIDEM for achieving compliance with Residential Soil Objectives under RIDEM's voluntary Remediation Program.

LSE directed the excavation of over 7,400 tons of impacted soil and coordinated with the RIRRC to confirm that the soil would be accepted as alternative daily cover at the State Central Landfill. LSE utilized on-site soil screening methods to distinguish clean from contaminated soil in real-time. LSE used PetroFlag field test kits to analyze confirmation soil samples collected at 50 foot spacing along the base of the excavation. LSE assisted with management of seven trucking companies during the peak of the soil hauling program and tracked hundreds of bill-of-lading forms and scale house slips.

As this site is within a residential neighborhood, LSE also performed ambient air monitoring with a photoionization detector (PID) during excavation.

After confirming compliance with RIDEM's residential Soil Objectives, LSE submitted a closure report to RIDEM documenting all soil management activities. A letter of compliance was issued by RIDEM for the site

Lake Shore Environmental, Inc.

and currently, four house lots have been developed /constructed.



### Pertinent Features:

- Large scale, fast-paced soil remediation project involving over 7,400 tons of contaminated soil.
- Use of on-site soil screening techniques (PetroFlag) provided rapid, real-time data regarding soil quality allowing soil excavation to proceed without waiting for laboratory analysis.