

**Historic Mill Complex
Site Investigation – RIDEM Voluntary
Remediation Program**
East Providence, RI

Heavy metals consisting of cadmium, chromium, manganese, zinc and lead were detected in soil at this historic mill complex at concentrations jurisdictional to RIDEM. The owner retained Lake Shore Environmental (LSE) to evaluate sampling data collected to date and develop a regulatory compliance strategy for the Site. After presenting various approaches to the client, LSE prepared a Site Investigation Work Plan and completed a Site Investigation under the Rhode Island Department of Environmental Management (RIDEM) Voluntary Remediation Program in accordance with Rule 7.00 of the RI Remediation Regulations.

LSE’s investigation consisted of a comprehensive walkover inspection of all buildings, direct-push profiling of shallow soils at 23 locations across the Site and drilling, installation and sampling of seven monitor wells.

LSE’s investigations revealed that shallow soils where filling had occurred contained metals concentrations exceeding RIDEM’s Soil Objectives and that groundwater quality had been minimally impacted by chlorinated solvents. Since the most viable remedies for achieving regulatory approval



would likely include engineered and institutional controls, the client decided to temporarily postpone remedy selection until future Site development plans are made or the property is divested.

Pertinent Features:

- Multi-media sampling program using direct-push tools
- Data provided three-dimensional delineation of contaminant distribution in soil & groundwater