



Route 146 Extension Project

Massachusetts Highway Department Worcester, Massachusetts

Technology: Ex-situ application of liquid reagents that react on contact to treat TCLP lead soils. Less than 1% increase in weight and 1,200 tons per day schedule easily achieved with minimal equipment and personnel. Standard hydraulic equipment used for stockpile mixing.

Regulatory: MA DEP Central Region

Type of material: Urban Fill & Slag

Contaminating metal: Lead (Pb)

Position: Remediation Contractor

Volume of media: 25,000 tons

TCLP baseline: 25 to 50 ppm range

TCLP treated: <0.1mg/l to ND



During the extension of Route 146 in Worcester, the Massachusetts Highway Department contracted Soil Solutions to perform patented ex-situ chemical fixation for lead-impacted soils, classified as a hazardous waste and subject for expensive disposal fees and state taxes. The stabilized soils were reclassified as non-hazardous, and allowed for transport and disposal at a less expensive Subtitle D landfill. Soil Solutions conducted treatability analysis to determine the proper chemical admixture, and engineered the ex-situ remediation process to meet site conditions. We then mobilized specialized process equipment and patented chemical stabilizers to perform the work, and managed all soil stabilization, stockpile tracking, confirmation analysis, and transportation and disposal activities.



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