



Settling Lagoon Stabilization/Solidification

**American Optical Corp.
Southbridge, Massachusetts**

Technology: Patented Pending process to meet two goals: treatment of lead-impacted soil and stabilization for strength. Specialized equipment including long-reach excavators and dewatering systems used.

Regulatory: MA DEP Consent Order

Type of material: Lead-Impacted Settling Lagoon Waste

Contaminating metals: Lead

Position: Site Remediation Contractor

Volume of media: 8,000 processed tons

Type: Ex-Situ Stabilization, In-situ Solidification

Treatment Goals: 0.75 mg/l TCLP Lead plus physical properties (strength, compaction, etc).



Soil Solutions was contracted for the solidification/stabilization of the settling lagoons at the American Optical facility in Southbridge, MA. The remediation included stabilization design and testing, the treatment of lead-impacted lagoon sediments, and the solidification of the treated material for use as pavement base. Soil Solutions and their subcontractors conducted both in-situ and ex-situ treatment for 8,000 tons of lead-impacted sludge using patented liquid and dry treatment reagents. The material was reused on-site and treatment standards for lead were set at 0.75 mg/l by TCLP analysis. Soil Solutions also operated extensive dewatering systems during the project and completed site restoration activities.



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