



Ore Hill Mine Site Restoration U. S. Forest Service/Environmental Contractors, Inc. Warren, New Hampshire

Technology: Ex-Situ: Patented Buffered Phosphate, specifically blended for SSTT, delivered in bulk by dump trailers and mixed with standard hydraulic equipment.

In-Situ: Specialized equipment to create a slurry for surficial stabilization of residuals.

Regulatory: CERCLA Removal Action—U.S. Forest Service

Type of material: Mine Tailings & Waste Rock

Contaminating metals: Lead and Zinc

Position: Treatment Technology Provider

Volume of media: 50,400 processed tons

Type: Ex-Situ Stabilization and On Site Reuse

Treatment Goals (Lead & Zinc):

SPLP: <0.1 mg/l & <0.18 mg/l

MEP: <0.7 mg/l & <5.0 mg



Soil Solutions was contracted to work on the CERCLA Non-Time Critical Removal Action performed by the U.S. Forest Service (USFS) at the Ore Mine Site in Warren, NH. The project included stabilization design and pilot testing, and the excavation and ex-situ treatment of 50,400 tons of zinc and lead-impacted mine tailings using patented dry treatment reagents. Since the material was placed in an on-site repository, treatment goals set by the USFS were in the low part per million range, designed to meet groundwater standards. Treatment success was judged by both SPLP and 10-day MEP analysis. Soil Solutions also developed a liquid reagent application to stabilize residual tailings in the 3.5 acre excavation area.



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