

EnviroBlend® has extensive knowledge of the fate and transport of heavy metal contamination, as well as remedial action experience. Our scientists have spent years developing cost-effective chemistries for rendering lead, cadmium, arsenic, hexavalent chromium, zinc and other heavy metal contaminants non-hazardous. This research has resulted in a number of patented products that have been widely applied for heavy metal remediation sites across the country.

Former Manufacturing Facility

Provided treatment for 30,000 tons of slag-affected soil. Treated over 60 x 500-ton batches in 5 weeks using EnviroBlend. Performed treatment at less than 90% of the budget estimate.

Battery Manufacturing Site – Alabama

Treated approximately 200,000 tons of soil *ex-situ* at significant savings over alternative remediation technologies. Site management allowed different areas to be treated at different dosage rates resulting in a very cost-effective approach.

Confidential Client – Alabama

The untreated soil contained lead totals of 6,270 mg/kg that was leaching at 88.2 mg/L. A dosage rate of 3% EnviroMag Coarse reduced the lead leachability to 0.26 mg/L (TCLP standard of 5.0 mg/L). This was a 339% reduction in the leachable lead.

Leaching Results							
Sample Name	Lab ID	EnviroBlend® Dosage		Screening Leaching Test Results			
		Chemical	Percentage	Pretest pH	Solution	Final pH	Lead mg/L
XX0315	09-09003	Untreated	-	1.76	TCLP 1	4.92	88.2
		EnviroMag® Coarse	2.0%	-	TCLP 1	6.51	10.98
			3.0%	-	TCLP 1	9.10	0.26

U.S. Army Small Arms Range – Alabama

Stabilized 12,500 tons of lead-contaminated soil from military firing range with EnviroMag Coarse.

Former U.S. Army Firing Range/Basic Training – Alabama

Treatment at the former Fort McClellan Range 30 site in Anniston, AL was completed in July 2021. Treatment was provided for 3,000 tons of lead-contaminated soil, up to 8,200 ppm total Pb. The soil was treated *in-situ*. EnviroBlend was used at a dosage rate of 2% to 3% by weight. Prior to EnviroBlend treatment, TCLP levels were >5 mg/L to 28 mg/L. The soil was disposed of off-site after treatment.

The estimated total savings for this project was roughly \$350,000 between transporting materials to landfills and disposal costs.

With treatment of the soil completed, this space will now be home to an industrial conservation district and open space wildlife habitat.