

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.

Philotechnics – Tennessee

Treated approximately 300 tons of low-level radionuclide and heavy metal impacted electric arc furnace dust in containers in this nuclear weapons manufacturing plant.

Former Vacuum Cleaner Plant – Tennessee

Treatment of the privately-owned vacuum cleaner plant in Springfield, TN, was completed in order to expand the plant. EnviroBlend CS Supersacks were used at a dosage rate of 5% to treat 5,000 tons of soil contaminated with lead. The soil was mixed by an excavator and once treated, was removed off-site.

With the use of EnviroBlend, the site owner saved roughly 67% compared to the average alternative waste disposal.

Former Fertilizer Manufacturing Facility – Tennessee

In an untreated composite of arsenic-impacted soil, the average soil concentration result was 3,720 mg/kg; the untreated, high-arsenic-impacted sample was 6,330 mg/kg. The average sample resulted in a leaching of 18.9 mg/L in TCLP prior to treatment. A dosage rate of 1% wt./wt. EnviroBlend[®] HXD reduced arsenic leachability to 0.69 mg/L. The highly impacted area, untreated sample leached at 50.6 mg/L in TCLP testing. A dosage of 2% wt./wt. met TCLP criteria, and further dosage dropped the concentration of leachable arsenic.

Sample Name	EnviroBlend [®] Dosage				
	Chemical	Percentage	Solution	Final pH	Arsenic mg/L
Average	Untreated	-	TCLP 1	4.83	18.9
	EnviroBlend [®] AS	1%	TCLP 1	4.63	0.69
		2%	TCLP 1	4.55	0.42
High	Untreated	-	TCLP 1	4.88	50.6
	EnviroBlend [®] AS	1%	TCLP 1	4.62	8.26
		2%	TCLP 1	4.47	3.16
		3%	TCLP 1	4.44	1.48