

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 Mill – Massachusetts

The untreated soil sample at this former mill contained total lead of 190,000 mg/kg leaching at 651 mg/L. A dosage rate (wt./wt.) of 4% EnviroMag Coarse reduced lead leachability to 0.71 mg/L (UTS TCLP standard of 0.75 mg/L). Sample 02 contained the highest total and leachable lead in the bench-scale study. It was utilized to design the upper limit of treatment chemistry and dosage rate. Dosage rate was then scaled back where appropriate in further bench and pilot testing, as soil impacts were delineated on-site to optimize dosage and costs. After treatment, soils were disposed of off-site. Township purchased the reclaimed former mill property from the responsible party for Greenspace and a nature path.

Leaching Results							
Sample Name	Lab ID	EnviroBlend® Dosage		Screening Leaching Test Results			
		Chemical	Percentage	Pretest pH	Solution	Final pH	Lead mg/L
02	10-09006	Untreated	-	-	TCLP 1	4.96	651
		EnviroMag® Coarse	3.0%	-	TCLP 1	6.75	8.77
			4.0%	-	TCLP 1	9.04	0.71