

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 Broadway Commons – Ohio

Independence Excavating (IX) recently completed the stabilization of on-site soils and remediation of approximately 12,500 tons of soil at the former Broadway Commons property in Cincinnati, Ohio. Soil stabilization parallels the mechanical processes utilized for soil solidification. The differences inherently are the end product; soil solidification is a process to ultimately provide a dryer material that meets certain geotechnical criteria; soil stabilization renders a material that would otherwise require management as hazardous for metal(s) as non-hazardous.

Soil stabilization is accomplished by introducing chemicals, also known as stabilizing reagents, into the soil via an excavator or through a spreader. IX heavily relied on the fast application processes of their specialized equipment, including a computerized truck-mounted spreader and a Wirtgen 2500 recycler operated through their affiliated company Flex-Tech Resources. For this project IX elected to team with Premier Magnesia, LLC, the sole manufacturer of EnviroBlend heavy metal treatment products. EnviroBlend products are blended and manufactured to address waste-specific chemistry needs.

The main contaminants of concern at the Former Broadway Commons site were lead and arsenic along with elevated soil pH. The EnviroBlend product, Independence, effectively stabilized the lead (made it non-hazardous) without adversely affecting the arsenic and at the same time controlled the soil pH. Controlling the pH is essential in metal treatment, specifically with lead, as lead leaches at both high and low pH values. IX saved the customer nearly \$1 million dollars by stabilizing site soils and thereby allowing soil to be disposed of as non-hazardous.

Airport Firing Range – Ohio

Environmental Remediation Contractor remediated a former firing range which sat on a 7-acre area in the middle of the taxiways and runways of an active airport. The sites constituents of concern were hazardous and non-hazardous Lead (Pb), Arsenic (As) and PAH contaminated soils.

- Worked closely with city officials, on-site consultants and airport management to maintain compliance with all regulatory and FAA rules
- Performed *in-situ* treatment and soil fixation of over 11,000 tons of hazardous lead-contaminated soil using Enviromag dosages ranging from 1% to 3% weight to weight
- Excavated and loaded over 20,000 tons of treated and non-treated non-hazardous, contaminated soils to an approved off-site disposal facility

Services:

- Dig & Haul
- Soil Treatment & Stabilization
- Landfill / Earthmoving