Ex-Situ Soil Blending- Pay for Performance Contract

Atlanta, GA

Contaminants:
LNAPL and Diesel Fuel

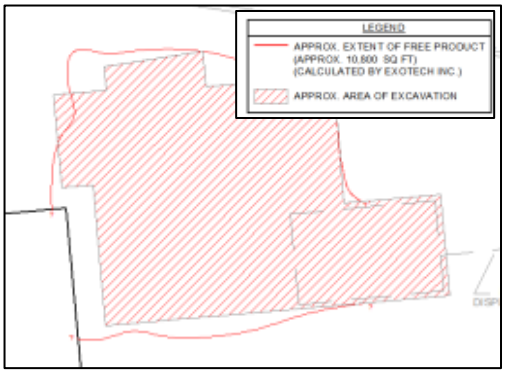
Treatment:
Ex-Situ Soil Blending using CHP

Site Status:
NFA

- Eden personnel designed and oversaw the implementation of an Ex-Situ chemical oxidation/surfactant blending treatment at a former trucking facility. This "green-friendly" treatment was developed as an alternative to off-site landfilling.
- Depth to water ranged from 5-8 ft-bgs and subsurface soils consisted of micaceous sandy-silt saprolite with partially weathered rock less than 10-ft-bgs in places.
- Diesel product (LNAPL) was observed in several wells at depths ranging from 0.5-1 feet. Treatment goals were removal of LNAPL and DROs to <5,000ppm.
- Prior remedial efforts included aquifer testing and AS/SVE testing. Mr. Summerour proposed Ex-Situ soil blending with the treated soils being returned to the excavation area. The design included the use of CHP with a biodegradable surfactant to solubilize the diesel product to enable more effective chemical oxidation.

Diesel Impacted Soils

- Soils were excavated and treated both above and below the water table followed by treatment using an auger-driven modified pug mill blender. The blender was equipped with chemical metering feeds. After treatment, soils were placed on a conveyer feed and stockpiled for 3-5 days prior to sampling and backfilling. A total of 4,000 cubic yards of soils were treated along with 80,000 gallons of groundwater which was transported to a recycler.
- Confirmatory sampling results confirmed the absence of LNAPL and DRO was reduced to 1,000-1,500 ppm. Replacement wells did not detect LNAPL over a 6-month period, resulting in a No Further Action status.



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