BAM Soil Mix – Per- and polyfluoroalkyl substances (PFAS)

Former Tannery – Northeast Michigan

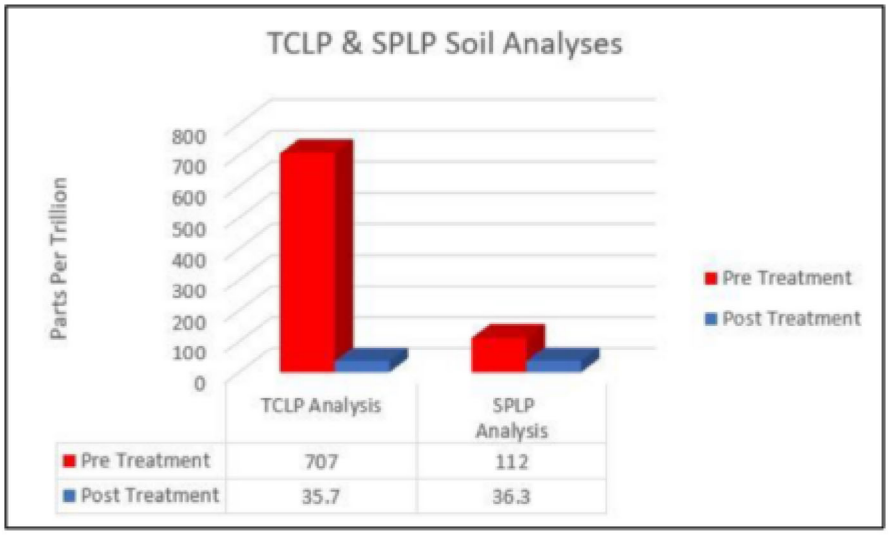
Project Profile: Former Tannery – Northeast Michigan

Contaminants: Perfluorooctyl Sulfonate (PFOS): 707 ng/L (TCLP)
112 ng/L (SPLP)

Treatment Chemistry: BAM

Impacted Matrix: Silty Sands with Organics

Project Summary: ORIN conducted a pilot test to treat soil contaminated with PFAS using BAM, a pyrolized cellulosic material. BAM was applied directly to contaminated soils and thoroughly mixed with an excavator. Soil was mixed in-situ. A baseline TCLP analysis was not taken thus the pre-treatment number used is from the treatability study done on soils from the site.



Project Results: Current EPA standards for PFOA and PFOS are 70 ng/L. Samples were collected on the same day of chemical application. Initial concentrations of TCLP PFOS were 707 ng/L and SPLP PFOS 112 ng/L. Following application of BAM, TCLP and SPLP PFOS concentrations are 35.7 and 36.3 ng/L respectively. This results in a 95% reduction in TCLP PFOS and a 67.6% reduction in SPLP PFOS.

Phone: 608-838-6699
Fax: 608-838-6695
ORIN Technologies, LLC.
405 Investment Ct, Verona, WI 53593
Email: lkinsman@orinrt.com
Web: www.orinrt.com