

Case Study: Extraction and Treatment of Effluent During ISTR Treatment U.S. Department of Defense

Project Overview

Location:DuratiDepartment of Defense1 yearFacility in the Midwest1

Duration: 1 year

Contaminants: Trichloroethene (TCE) Vapor Treatment Efficiency: >99.9%

Performance Evaluation

C3 Technology recovered and treated constantly varying concentrations of TCE-laden vapors over the course of the nearly yearlong in situ thermal treatment project. Treatment efficiencies in excess of 99.9% were demonstrated at the project. GEO personnel performed all work in accordance with strict Department of Defense protocols with zero incidents, adding to GEO's exemplary record of safety and compliance.

Site History

At a U.S Department of Defense facility near the Midwest, trichloroethene (TCE) was treated in saturated regions from approximately 50 to 100 feet bgs via electrical resistance heating. Extracted steam and vapors were cooled to separate condensable and non-condensable portions of off-gas. Resultant vapors were treated with GEO's cooling-compression-condensation (C3) technology system.

To ensure failsafe, uninterrupted operations, the 1,000 scfm capacity system was composed of two redundant modules, each independently capable of extracting and treating 500 scfm.

Cooling Compression Condensation

www.georemco.com



Environmental Remediation Company