

PROJECT OVERVIEW:

The project involved the remediation of Dense Non-Aqueous Phase Liquid (DNAPL) source areas that created a chlorinated solvent plume approximately 180 acres in size. The site is located in the middle of the Industrial Area at Cape Canaveral Air Force Station, Florida and the DNAPL source area plume extended beneath an occupied facility (Hangar K), making the logistics of implementation of a remedy complex. Contaminants of concern in groundwater were chlorinated solvents including trichloroethene (TCE), cis-1,2-dichloroethene (DCE), trans-1,2-DCE and vinyl chloride. CORE implemented the Corrective Measures in several steps:

- Treatment of the primary TCE source areas (TCE > 200 ppm) via the in-situ injection of Emulsified Zero Valent Iron;
- Treatment of the secondary and tertiary source areas (TCE between 100 and 200 ppm and TCE between 10 and 100 ppm, respectively) via the injection of Vegetable Oil and lactate solutions;
- Continued operation & maintenance/long term monitoring of the CCAFS Regional Stormwater System controlling contaminant groundwater plume migration;
- Natural attenuation of groundwater contamination to FDEP GCTLs documented by continued monitoring and land use controls