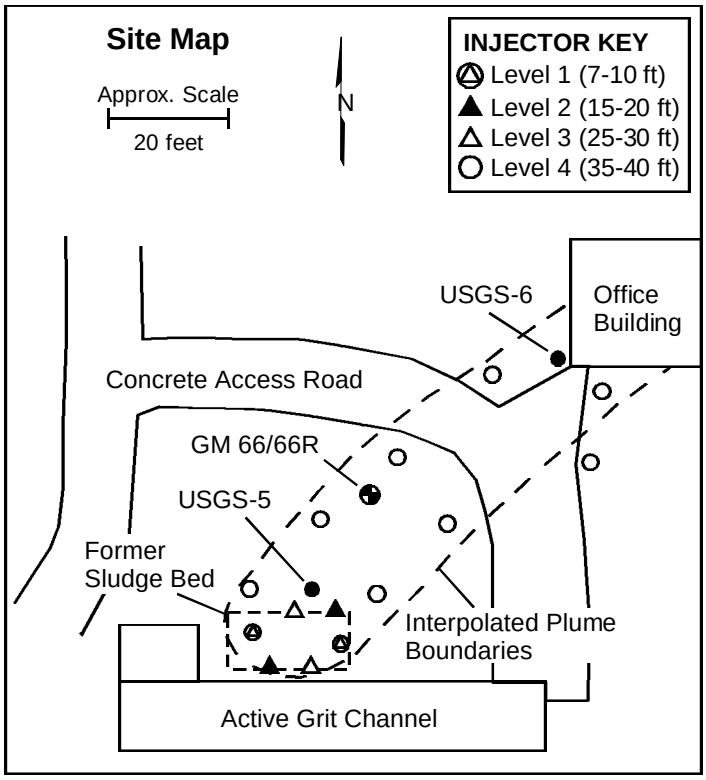
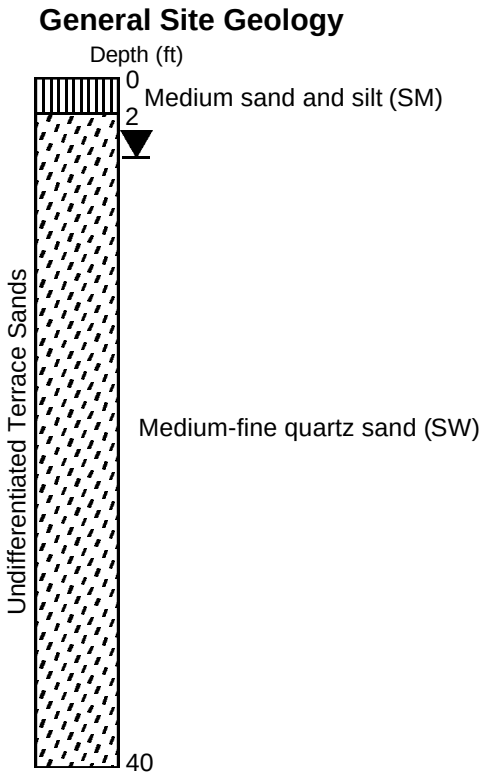
Geo-Cleanse® Treatment Summary

Pensacola Naval Air Station, Florida

Site Description

Type of Site: Former water treatment plant sludge drying bed.
Contaminants: Trichloroethene and degradation products (cis-1,2-dichloroethene, vinyl chloride), and traces of petroleum hydrocarbons, dissolved in groundwater.
Cleanup Objective: The plume is migrating towards Pensacola Bay, located approximately 100 yards downgradient of the source area. The objective was source reduction to enhance natural attenuation.





Treatment Approach

Contaminants were concentrated in a high-transmissivity zone between 30 and 40 feet below grade.

Installed 15 injectors:
6 shallow and intermediate injectors screened at intervals from 7-30 ft.
9 deep injectors screened 35-40 ft.

Injected 101,300 lbs(10,160 gal) of 50% hydrogen peroxide, plus catalyst solution, over 13 days in two treatment phases.

TREATMENT RESULTS

Achieved source reduction from >2,100 mg/L to£103 mg/L of total volatile organic compounds at all locations:

Total VOCs	USGS-5	USGS-6	GM-66/66R
pre (µg/L)	2,307	2,111	4,523
post (µg/L)	103	63	0 (ND)
%Reduction	**96**	**97**	**100**

Treatment was a demonstration performed under a Navy Broad Agency Announcement program.

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