SERDP
Strategic Environmental Research and Development Program

Cleanup
CU-863

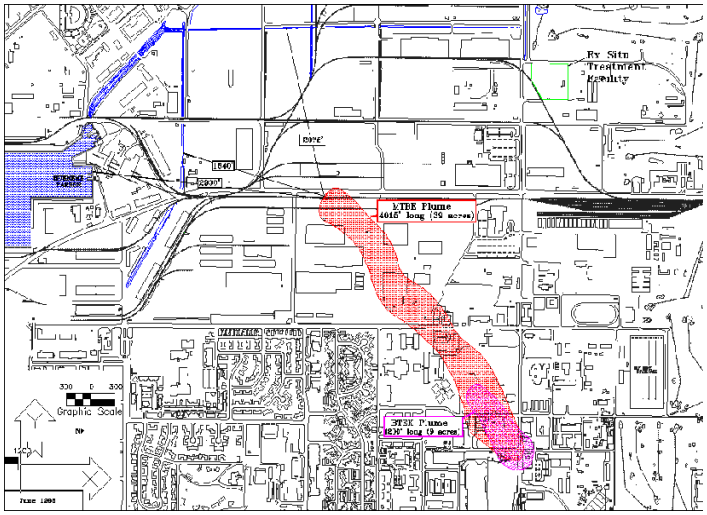
The NETTS Location at NBVC Port Hueneme

NETTS Summary:

The Tri-Service and EPA test locations of the SERDP National Environmental Technology Test Site (NETTS) program comprise a network of well-characterized demonstration sites at DoD installations. The goal of this SERDP-funded program is to provide accessible, well-supported field locations for project proof-of-principle tests, applied research, and comparative demonstrations, as well as to facilitate transfer of innovative environmental technologies from research to full-scale use. The SERDP NETTS program was created primarily for DoD, DOE, and EPA users, but the locations are also available to other agencies and the private sector.

Site Background:

The Navy Base Ventura County (NBVC) Port Hueneme site is in Ventura County, northwest of Los Angeles. The primary contaminants at Port Hueneme consist of diesel, gasoline, waste oil, PAHs, MTBE, and BTEX. Port Hueneme is used to demonstrate systems for characterizing and remediating soils, sediments, and groundwater contaminated with fuel hydrocarbons and waste oil using in-situ and ex-situ techniques. The port consists of an 80-acre harbor and 2 miles of canals and associated wetlands. Any area within the port is available for conducting demonstrations. The Navy Exchange Gasoline Station Plume is a 9-acre BTEX plume with three current demonstration sites and an associated 40-acre MTBE plume with four current demonstration sites. The Fuel Tank Farm is a 4.5-acre above ground fuel farm with soil contaminated with PAHs.



The extensive MTBE Plume affords researchers an opportunity to study remediation solutions.

Site Objective:

The objective of this NETTS Location is to demonstrate systems for characterizing and remediating soil, sediments, and groundwater contaminated with fuel hydrocarbons and/or waste oil. The NBVC Port Hueneme National Test Location management provides a professional staff dedicated to responding to principle investigator needs in the timeliest manner possible, thus enabling researchers to conduct a wide range of field projects from proof-of-concept test through full-scale demonstration. Infrastructure and site support at NBVC Port Hueneme includes the following: (1) monitoring wells, (2) in-line sensor network, (3) ex-situ treatment facility with hazardous material handling capability, (4) utilities, and (5) contaminated soil, sediments, and groundwater resources. Technical support to demonstrators includes: (1) characterizing and monitoring of contaminants, (2) processing permits, (3) supporting stakeholder involvement, and (4) coordinating technology transfer activities.

Demonstrations Hosted*:

TITLE	PERFORMER
Multi-Site Air Sparging Project	AFRL
Long-Term Monitoring Using Direct Push Technology	AFRL
The Effects of Higher Plants on the Bioavailability and Toxicity of Petroleum Contaminants in Soil	Purdue Univ.
Field Tracer Test to Examine Natural Attenuation of MTBE	OGI
In-Situ MTBE Remediation with Propane and Oxygen Bioaugmentation	Envirogen
MTBE-Degrading Biobarriers	NFESC/ASU/ Equilon

* List represents a sample of demonstrations at the site.

Port Hueneme Contact:

Mr. Ernest Lory
Naval Facilities Engineering Services Center
ESC411
1100 23rd Avenue
Port Hueneme, CA 93043-4370
Telephone: (805) 982-1299
Fax: (805) 982-4304
E-mail: loryee@nfesc.navy.mil
Website: **http://enviro.nfesc.navy.mil/erb/support/netts/main.htm**

REVISED 11/22/02