

1. PURPOSE OF REMEDIAL ACTION

This decision document describes the remedial alternative for Site 886 (Former Aboveground Storage Tank Area) located on the Main Post of Fort Monmouth. The selected remedial alternative was chosen in accordance with the following regulatory requirements: CERCLA as amended by SARA, the NCP, RCRA, N.J.A.C. 7:26D (Cleanup Standards for Contaminated Sites), N.J.A.C. 7:26E (Technical Requirements for Site Remediation) and AR 200-1, as applicable.

A former 250,000 gallon aboveground storage tank (AST) was located adjacent to Building 886 on the west side of the structure. The AST was a single wall, steel structure that was used to store # 2 heating oil. The AST appears on aerial photographs dating back to 1956. The tank last appears on an aerial photograph dated 1968. The AST does not appear on an aerial photograph dated 1972. Free product, in the form of # 2 heating oil, has been identified in site soils and groundwater. The New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements for Site Remediation [N.J.A.C. 7:26E-6.1(d)] requires free and/or residual product to be treated or removed when practicable, or contained when treatment or removal are not practicable. Natural remediation of free and/or residual product will not be allowed. The NJDEP soil cleanup standard for total organic contaminants is 10,000 mg/kg. Delineation of the contaminant of concern encompasses an area that measures 340 feet by 380 feet. The contaminant of concern is migrating within site soils and groundwater in a north to northwest direction. The post commissary is located approximately 100 feet northwest of the contaminant zone. A land area used for farming vegetables is located 400 feet downgradient of the contaminant zone. The nearest occupied building is located 450 feet downgradient of the site. Oceanport creek is located approximately 1,500 feet downgradient of the contaminant zone. Ecologically speaking, the creek provides food and shelter to numerous species of waterfowl, fish and shellfish. The creek is utilized by local residents for fishing and crabbing purposes. The selected remedial alternative involves removing and/or treating the contaminant of concern in site soil and groundwater whereby eliminating the contaminant of concern.

This decision document was developed by the Directorate of Public Works, Planning and Environmental Division, Fort Monmouth. All documentation has been submitted and approved by the NJDEP.

2. SUMMARY OF SITE RISK

Free product, in the form of # 2 heating oil, has been identified in site soils and groundwater. Vapors resulting from the release of # 2 heating oil may cause nose and throat irritation, anesthetic effects and central nervous system depression. Inhalation may result in dizziness, drowsiness and headache. As previously mentioned, the post commissary is located approximately 100 feet northwest of the contaminant zone. A land area used for farming vegetables is located 400 feet downgradient of the contaminant zone. The nearest occupied building is located 450 feet downgradient of the site. Oceanport creek is located approximately 1,500 feet downgradient of the contaminant zone.

3. SUMMARY OF REMEDIAL ALTERNATIVES

The selected remedial alternative will include a combination of soil removal with offsite disposal, *in situ* bioremediation of contaminated soils and the recovery of free product from site groundwater. Excavation has been determined to be the most cost effective approach for eliminating the contaminant of concern from site soils. However, utility conduits found within several areas of the contaminant zone will make it extremely difficult and expensive to remove soils in these areas. As an alternative approach, enzyme-enhanced bioremediation products will be injected into these soil zones as the primary means of treatment. The target cleanup goal for impacted soils will be 10,000 mg/kg or less for total organic contaminants. Free product will be recovered from site groundwater through the use of mechanical pumps. The recovery operation will be limited to free product only; the pumping and treating of groundwater is not anticipated.

4. PUBLIC/COMMUNITY INVOLVEMENT

At the present time, the Directorate of Public Works Environmental Office is working closely with the NJDEP for the purpose of implementing the selected corrective action. A copy of this Decision Document has been placed in our information repository for public review and comment. The Directorate of Public Works will place a one time public notice in a newspaper with wide circulation in this area in order to alert the general public as to our intent to remedy this site.

5. DECLARATION

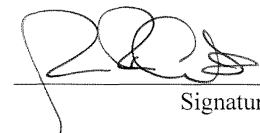
Because this remedy will not result in hazardous substances remaining on-site above levels that allow for unlimited use and unrestricted exposure, the five-year review will not apply to this action.


STEPHEN N. WOOD
LTC, MI
Garrison Commander

This Decision Document has been reviewed and approved.

Ian Curtis
Case Manager
NJDEP, Bureau of
Case Management

Name, Title



Signature

6/4/02

Date