

# Applied Environmental Services

## New York

EPA ID#: NYD980535652

### EPA REGION 2

Congressional District(s): 05

Nassau

Glenwood Landing

#### NPL LISTING HISTORY

Proposed Date: 10/1/1984

Final Date: 6/1/1986

## Site Description

Applied Environmental Services recovered fuels from hazardous wastes at this 4-acre site in Glenwood Landing from 1980 to 1983. The property contained two 1-story buildings, 7 underground tanks, and 11 aboveground tanks. Although all the tanks and the liquid chemicals stored in the tanks have been removed from the site, spills, leaks, and other activities resulted in on-site soil and groundwater contamination. Shore Realty purchased the property in 1983 and evicted Applied Environmental Services in January 1984. The site has been inactive since; it is fenced and access is controlled. Prior to 1980, the site was leased and operated by a petrochemical company; several spills occurred during its tenure, including about 3,000 gallons of the volatile organic compound (VOC) toluene from an overturned tank trailer. The site is on the north shore of Long Island; it slopes down to Hempstead Harbor on the west and Motts Cove on the south. A fuel oil distributor, power plant, and public boat landing lie to the north, and there is a private yacht club to the east. Approximately 7,600 people live within a mile of the site. Homes lie 500 feet to the south, 800 feet to the north, and 1,500 feet west of the site. An estimated 20,000 people within 3 miles of the site use groundwater as a drinking water source.

Site Responsibility: This site is being addressed through a combination of Federal, State, and potentially responsible party (PRP) actions.

## Threat and Contaminants

On-site monitoring wells revealed contamination from VOCs including xylene and toluene. On-site subsurface soils also are contaminated with VOCs. Exposure to contaminated soil or groundwater could present a health hazard. Currently, the site is fenced and access is restricted to Federal, State and PRP-authorized personnel. Residents in the area receive their drinking water from public water supplies; these supplies are routinely tested to ensure compliance with State and Federal drinking water standards.

## Cleanup Approach

The site is being addressed in two stages: immediate actions and a long-term remedial phase directed at cleanup of the entire site.

### Response Action Status

Immediate Actions: After toluene began seeping into Hempstead Harbor, Applied Environmental Services installed a trench that recovered an average of 500 gallons of organic chemicals each month. The site owner removed some of the drums from the site in 1984 and funded the further removal of 218 drums in 1985; the State supervised these activities. In October 1985, the State began to remove about 600,000 gallons of wastes from the on-site tanks. The work was completed a year later. The drum removal activities, fencing, and liquid waste collection efforts have greatly reduced the potential for exposure to hazardous materials at the Applied Environmental Services site.

Entire Site: In 1987, under State supervision, the current owner began an intensive study of pollution at the site. As a result of the investigation, recommendations were made for cleanup strategies. The recommendations were made available for public comment in Spring 1991. The EPA and the State selected the site remedy, which was documented in the June 24, 1991 Record of Decision (ROD). It includes soil vapor extraction for the unsaturated contaminated soils and groundwater pump and treat, with bioremediation for the groundwater. The engineering design for the cleanup was completed in the Spring of 1994. Construction of the remedy started in May 1994 and was completed in June 1995. The system is currently being operated and maintained by the PRPs.

Site Facts: An Administrative Consent Order was signed in October 1987 for the current site owner to conduct a study of the nature and extent of contamination at the site. A Consent Judgement for design and construction of the selected remedy was signed and became effective on August 5, 1992.

## **Cleanup Progress**

The immediate actions implemented at the site (drum and tank removals, fencing, and liquid waste collection) and the long-term actions (soil vapor extraction for the unsaturated contaminated soils and groundwater pump and treat) have greatly reduced the potential for exposure to contaminated soil, sediment, leachate and groundwater at the Applied Environmental Services site.

In 1994, during construction of the remedy, approximately 14 tons of contaminated sludge and 870 tons of building debris were transported off-site for proper disposal; two 700,000-gallon underground tanks containing 3,200 gallons of flammable liquids were removed and transported off-site for proper disposal. The ongoing operation of the soil vapor extraction and groundwater pump and treat systems will further reduce any potential threat to human health and the environment. The site was considered to be construction complete in June 1996. In February 2004, the PRP's contractors installed a steel bulkhead along the eastern boundary of Hempstead Harbor. Evaluation of the analytical results over time reported in the monthly and quarterly reports prepared by the PRP's contractors indicate that concentrations of contaminants of concern have decreased significantly in the area of the former tank farm and in parts of the paved driveway. This is an indication that the remediation of soil and groundwater has been effective in these areas. Some recalcitrant areas remain in the vicinity of where the bulkhead was replaced. In December 2004, the PRPs upgraded and expanded the existing air sparging/soil vapor extraction system to address these areas of soil contamination.

In September 2006, EPA conducted a five-year remedy review and concluded that the Site remedy was found to function as intended by the decision documents. Recently, after assessing the latest treatment plant operating data, the PRPs have notified EPA that they are proposing to further evaluate the treatment system and to collect additional field data.

## **Site Repositories**

Glen Cove Public Library Reference Desk Glen Cove Avenue Glen Cove, NY 11542 Telephone: (516) 676-2130