

This project is being funded by the American Recovery and Reinvestment Act.

Site Background

The Extra Value Budget & Gas site (PI: 03163) is located at 26 Columbus Place (Block: 6, Lot: 1), in the Borough of Bound Brook, Somerset County. The site historically operated as a gasoline service station, with five leaded gasoline underground storage tanks (USTs) and one waste oil UST. The USTs were removed in May 1989 and holes and pitting were noted on the edges of the tanks. Approximately 40 tons of impacted soil were excavated. The soil was sampled and analyzed for Total Petroleum Hydrocarbons (TPHC). Soil sampling revealed that TPHC detections ranged from 50 parts per million (ppm) to 1,750 ppm, which are below the current soil remediation criteria of 5,100 ppm.

A Remedial Investigation (RI) was conducted by the property owner in July 1997. Methylene chloride and lead were detected in exceedance of New Jersey Department of Environmental Protection (NJDEP) Soil Remediation Standards; benzene, ethylbenzene, methylene chloride, total xylenes, MTBE and lead were detected in exceedance of NJDEP Groundwater Quality Standards.

The site is no longer operational as a service center and all pump islands and structures have been removed, with the exception of a single-story brick building and a partially paved parking area. The site is currently being used as an overflow vehicle storage lot by a neighboring auto repair business.

Current Status

NJDEP initiated a more comprehensive RI in August 2011. The investigation revealed elevated concentrations of benzene, toluene, ethylbenzene, xylene and naphthalene present in the soil column at the water table. High concentrations of petroleum-related volatile organic compounds (VOCs), above the NJDEP Groundwater Quality Standards (GWQS), were also identified in both ground water screening and monitoring well locations. In addition, free product was observed in two of the five on-site monitoring wells. The horizontal extent of the free product and VOC exceedances appear to have been delineated on the north side of the site, however, the concentrations are not delineated to the southwest. Additional monitor wells will be installed and sampled to determine the limits of ground water contamination.

NJDEP has contracted with Handex C&R to install a treatment system to address the remaining free product and ground water contamination. During spring and summer 2012, activities will include:

- Installing wells and borings as necessary to investigate the subsurface conditions including contaminant levels, soil profiles and air flow potential;
- Designing and installing a Soil Vapor Extraction and Air Sparge system to reduce and eliminate the VO contaminants, which may utilize blowers, catalytic oxidizers, compressors and associated piping, including the sparge and vent points;
- Repairing and modifying the existing building to house the system equipment and control center;
- Installation of monitoring points to determine any offsite vapor migration.

In addition, due to the presence of contaminated ground water, NJDEP has initiated a vapor intrusion investigation. Vapor intrusion occurs when fumes from contaminated soil or ground water seep through cracks and holes in foundations or slabs of nearby buildings and accumulate in basements, crawl spaces, or living areas. Indoor air and sub-slab sampling will be conducted at 6 properties that have been identified to be within 30 feet from the contaminated ground water.

**For more information on this cleanup, contact Sana Qureshi, Community Relations Coordinator
P: 609-984-2038, E: Sana.Qureshi@dep.state.nj.us**

**For more information about contaminants, please visit:
<http://www.epa.gov/superfund/health/index.html>
<http://www.atsdr.cdc.gov/toxfaq.html>**

**For more information on vapor intrusion, please visit:
<http://nj.gov/dep/srp/guidance/vaporintrusion/>**

**Site Remediation Program
Office of Community
Relations**

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Governor**

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Commissioner**

