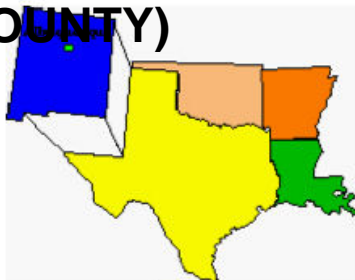


FRUIT AVENUE PLUME (BERNALILLO COUNTY) NEW MEXICO

EPA REGION 6
CONGRESSIONAL DISTRICT 01

EPA ID# NMD986668911
Site ID: 0604068



Contact:
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Updated: December 2009

Current Status

- The construction of the Air Stripper Treatment Plant (ASTP) was completed in 2004. Operation of the ASTP started in January 2005. The system operates on a full-time basis. Initially influent concentrations of TCE were about 15 ppb; TCE has not been detected in effluent samples. More recently, influent concentrations reached the remedial goal of 5 ppb and the system moved operations from full-time to pulsed operation mode. Pulsed pumping operation involves collecting samples for ground water monitoring and operation of “Run” and “Rest” periods of approximately six months or more.
- On January 28, 2005, EPA held a ceremony at the site with the startup of the pump and treat system. Attendees included the Congresswoman Heather Wilson, Mayor Chavez of the City of Albuquerque, Ron Curry, Secretary of State, Sam Coleman, Director of EPA Superfund Division and various local and State dignitaries.
- The first 2009 semi annual ground water sampling event was conducted in April 2009 and sampling for the second 2009 semi annual ground water sampling event was conducted in October 2009.

Benefits

Remediation of the contaminated media will reduce the health and ecological risk associated with the contaminants.

Implementation of the selected remedy, and the ongoing monitoring efforts by the EPA and the State, ensure that there is no threat to the local groundwater wells that are part of the drinking water supply.

Although only the sub-surface earth material and ground water are contaminated with TCE and PCE, the total land value will rise and the cleanup will encourage future business investments in the downtown Albuquerque business district.

National Priorities Listing (NPL) History

Proposal Date: July 22, 1999
Final Date: October 23, 1999

Location: The Fruit Avenue Plume Site is located within the city limits of Albuquerque, Bernalillo County, Central New Mexico.

Population: 187,327 people receive their drinking water from wells within a four-mile radius of the source site. Within one mile of the site, the total population is approximately 11,806, a large percentage of which are workers, not full-time residents. There are two hospitals and two City of Albuquerque municipal wells located 1 to 1 3/4 miles from the source site.

Setting: The contamination is contained in an aquifer underlying a portion of downtown Albuquerque, predominantly in the central business district.
The suspected primary source of the Trichloroethane (TCE) is a defunct dry cleaning

facility, Elite Cleaners, which operated from approximately 1940-1970. The estimated size of the plume is 2/3 mile long, 550 to 1300 feet wide, and at least 544 feet deep.

Photos: [Site](#)

Principal Pollutants:

The primary contaminant of concern is TCE, a chlorinated solvent, found at levels up to 90 micrograms per liter (ug/L) in the ground water. The maximum Contaminant Level (MCL) that is allowed under the Safe Drinking Water Act is 5 ug/L. Tetrachloethene (PCE), cis-1, 2-Dichloroethene (cis-DCE), and trans-1, 2-Dichloroethene (trans-DCE) are also found in some areas of the ground water plume, but these contaminants are below their respective MCLs.

Chlorinated solvents are heavier than water and readily sink in ground water. An exact or calculated volume of the chlorinated solvent (TCE) released into the ground water at the former site of Elite Cleaners is unknown at this time. However, very small amounts of these chemicals can contaminate large volumes of soil and ground water.

The area of contamination consists only of the subsurface soils and ground water. Therefore, the ground surface conditions are safe for people who live, work, and visit the area in the immediate vicinity of the Site.

Health Considerations

There is a potential for elevated health/ecological risk levels associated with two types of chlorinated hydrocarbon compounds, TCE and PCE, involved in dry cleaning spot removal and machine shop/industrial equipment degreasing activities.

TCE and PCE are the leading concerns at this site because they are known carcinogens recognized by the Resource Conservation and Recovery Act (RCRA) and regulated under the Safe Drinking Water Act.

- The Coca-Cola production well had to be removed from service in 1989 when TCE levels exceeded the MCL of 5.0 ug/L.
- The St. Joseph Hospital well was removed from service in December 1996 when TCE levels approached the MCL. In 1997, this well exceeded the MCL for TCE.
- The Presbyterian Hospital well showed levels of TCE below MCL in 1999.
- The City of Albuquerque municipal well Yale 1, exhibited trace levels of TCE and PCE in 1999. It is unknown whether the contamination source of Yale 1 is from the Site; however, Yale 1 well is located down gradient of the Site.

Record of Decision (ROD)

Record of Decision Signed: September 27, 2001

Explanation of Significant Differences (ESD): September 18, 2006

The major components of the Selected Remedy, as modified by the ESD, Shallow, Intermediate, and Deep Zone Restoration through Pump and Treat Technology with a Re-injection Component, consists of:

- Extraction and treatment of contaminated shallow, intermediate, and deep zone ground water by using a pump and treat system consisting of air stripping and granulated activated carbon, and by re-injecting a portion of the treated water,
- Implementation of ground water use restrictions until remediation goals for ground water are met, and

- Ground water monitoring (semiannual, annual, biannual) to assess the extent of contamination and risks to human health.

Site Contacts

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