



FACT SHEET State Superfund Program

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Site Name: Solvent Finishers
DEC Site #: 130172
Address: 601 Cantiague Rock Road
Jericho, NY 11753

Have questions? See "Who to Contact" Below

Remedy Proposed for State Superfund Site; Public Comment Period and Public Meeting Announced

Public Meeting, Tuesday, 3/15/2016 at 7:00 PM
Cantiague Elementary School
NYSDEC invites you to a public meeting to discuss the remedy proposed for the site. You are encouraged to provide comments at the meeting, and during the 30-day comment period described in this fact sheet.

The public is invited to comment on a remedy proposed by the New York State Department of Environmental Conservation (NYSDEC) related to the Solvent Finishers site ("site") located at 601 Cantiague Rock Road, Jericho, Nassau County. Please see the map for the site location.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

How to Comment

NYSDEC is accepting written comments about the proposed plan for 30 days, from February 26, 2016 through March 28, 2016. The proposed plan is available for review at the location(s) identified below under "Where to Find Information." Please submit comments to the NYSDEC project manager listed under Project Related Questions in the "Who to Contact" area below.

The site is listed as a Class "2" site in the State Registry of Inactive Hazardous Waste Sites (list of State Superfund sites). A Class 2 site represents a significant threat to public health or the environment; action is required.

Proposed Remedial Action Plan

The remedy proposed for the site includes:

A combination of Air Sparge/Soil Vapor Extraction (AS/SVE), In-Situ Chemical Oxidation (ISCO), and Enhanced Bioremediation, and Vapor Mitigation. This alternative also employs site management, including institutional and engineering controls (IC/EC), to ensure the remedy continues to be protective and to ensure the safe reuse of the property where contamination will remain in place.

- Continued operation of the air sparge and soil vapor extraction system that was implemented in October 2012 to address the groundwater plume contaminated by volatile organic compounds (VOCs). At this site, two (2) air injection wells have been installed within the source area at the rear of the main building to a depth of about 92 feet. To capture the volatilized contaminants, four (4) SVE wells have been installed in the vadose zone to depths of about 25 feet and 65 feet below ground surface. This existing system will be optimized and/or modified, based on the data and evaluation conducted during the remedial design phase, so the influence of the system can more efficiently address the soil, soil vapor, and shallow groundwater contamination by volatile organic compounds (VOCs).
- In-situ chemical oxidation (ISCO) will be implemented to treat contaminants in soil and groundwater. The method and depth of injection will be determined during the remedial design. Prior to the full implementation of this technology, laboratory and on-site pilot scale studies may be conducted to more clearly define design parameters.
- Enhanced Bioremediation will be employed to treat contaminants in on-site and off-site groundwater in an area to be determined during the remedial design. The biological breakdown of contaminants through anaerobic reductive dechlorination will be enhanced by the placement of chemical amendments into the subsurface to promote microbial growth. The amendments, method and depth of injection will be determined during the remedial design.
- Vapor Mitigation of any on-site and off-site buildings impacted by the site will be required to have a sub-slab depressurization system, or a similar engineered system, to mitigate the migration of vapors into the building from soil and/or groundwater.

Summary of the Investigation

Environmental samples have been collected from soils, groundwater, soil vapor and indoor air and have identified the main contaminants of concern at this site to be tetrachloroethene (PCE) and trichloroethene (TCE).

On-site soil was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Both on-site and off-site groundwater was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), iron and manganese. Based on investigations to date, the primary contaminants of concern are Tetrachloroethylene (PCE) and Trichloroethylene (TCE). They have been found in on-site and off-site groundwater, on-site soil, and both on-site and off-site soil vapor, sub-slab vapor and indoor air. The highest levels of contamination were found near the south side of the building where the presence of DNAPL is suspected.

- Soil- Solvent contaminated soils are found on-site from 5 feet below the surface to the water table at 85 feet below ground surface. The highest soil contaminant concentration of PCE was reported at 7,300 ppm (parts per million) at the water table, which exceeds both the Industrial Use Soil Cleanup Objective of 300 ppm and the Protection of Groundwater Soil Cleanup Objective of 1.3 ppm. TCE at 1.2 ppm which exceeds the Protection of Groundwater Soil Cleanup Objective of 0.47 ppm.
- Groundwater- PCE and its associated break down products were found in on-site and off-site groundwater at concentrations exceeding the groundwater standards of 5 ppb (parts per billion). The maximum on-site concentrations are: PCE of 300,000 ppb and TCE of

The contamination has migrated south about 4,000 feet off-site and the maximum off-site concentrations are PCE of 81,000 ppb and TCE of 89 ppb.

- Soil Vapor and Indoor Air- VOCs were detected in on-site sub-slab soil vapor and indoor air. On-site sub-slab vapor contaminant concentrations were detected up to a maximum of 119,349 ug/m³ (micrograms per cubic meter) for PCE; and 2,466 ug/m³ for TCE. On-site indoor air VOC concentrations were detected up to a maximum of 335 ug/m³ for PCE; and 1.6 ug/m³ for TCE. While this TCE level is above concentrations commonly observed but below NYSDOH's guideline of 2 ug/m³, the maximum concentration of PCE detected exceeds both NYSDOH's air guideline of 30 ug/m³ and immediate action level of 300 ug/m³ for PCE. PCE and TCE were also detected at one off-site commercial property in sub-slab vapor and indoor air. PCE concentrations were detected to a maximum of 1,070 ug/m³ and TCE to a maximum of 1.67 ug/m³ in off-site sub-slab vapor. Off-site indoor air concentrations of PCE were detected to a maximum of 16.6 ug/m³ (which is above levels commonly observed) and TCE to a maximum of 0.81 ug/m³ in off-site indoor air. Off-site soil vapor (soil gas) was detected at 32.9 ug/m³ of PCE. TCE was not detected.

NYSDEC developed the proposed remedy after reviewing the detailed investigation of the site and evaluating the remedial options in the "feasibility study" submitted under New York's State Superfund Program.

Next Steps

NYSDEC will consider public comments as it finalizes the remedy for the site. The selected remedy will be described in a document called a "Record of Decision" that will explain why the remedy was selected and respond to public comments. A detailed design of the selected remedy will then be prepared, and the cleanup will be performed.

NYSDEC will keep the public informed throughout the investigation and cleanup of the site.

Background

Location: The Solvent Finishers site is located in a suburban portion of Nassau County, New York. The site occupies about 3.8 acres at 601 Cantiague Rock Road. The site is located on Cantiague Rock Road about 500 feet east of the intersection of Jericho Turnpike and Brush Hollow Road.

Site Features: The site is currently occupied. The main site features includes one large, extended one story building surrounded by paved and gravel parking areas.

Current Zoning and Land Use: The site is currently zoned Industrial (light manufacturing) and is occupied by Rubies Costume. The surrounding parcels include commercial, industrial and public use. A school is located across Cantiague Rock Road. The nearest residential property is about 400 feet northeast of the site.

Past Use of the Site: The site has a history of solvent use and has operated as a manufacturer of artificial leather and plastics, an industrial dry cleaner, and manufacturer of imprinted and embroidered sportswear. The Nassau County Department of Health documented wastewater discharges to the ground and site drainage structures starting in 1977. In 1998, 59 tons of tetrachloroethylene (PCE) contaminated soil was excavated from an abandoned cesspool and disposed off-site.

Site Geology and Hydrogeology: The geology at the site generally consists of stratified sand and gravel with some fine grain material from the ground surface down to about 200 feet where clay is found. The depth to groundwater in the Upper Glacial Aquifer is about 85 feet below ground surface. The groundwater generally flows in a southerly direction.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

<http://www.dec.ny.gov/cfmx/extapps/derexternal/haz/details.cfm?pageid=3&progno=130172>

State Superfund Program: New York's State Superfund Program (SSF) identifies and characterizes suspected inactive hazardous waste disposal sites. Sites that pose a significant threat to public health and/or the environment go through a process of investigation, evaluation, cleanup and monitoring.

NYSDEC attempts to identify parties responsible for site contamination and require cleanup before committing State funds.

For more information about the SSF, visit: <http://www.dec.ny.gov/chemical/8439.html>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Jericho Public Library
Reference Section
1 Merry Lane
Jericho, NY 11753
phone: 516-935-6790

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

Robert Decandia
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7015
518-402-9693
rob.decandia@dec.ny.gov

Site-Related Health Questions

Jacquelyn Nealon
New York State Department of Health
Bureau of Environmental Exposure Empire State
Plaza, Corning Tower Room 1787
Albany, NY 12237
518-402-7880
BEEI@health.ny.gov

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: <http://www.dec.ny.gov/chemical/61092.html>. It's quick, it's free, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you already have signed up and received this fact sheet electronically.

SITE LOCATION MAP

