



# FACT SHEET

## State Superfund Program

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**Site Name:** Kliegman Brothers  
**DEC Site #:** 241031 Operable Unit 02 ("OU2")\*  
**Address:** 76-01 77th Avenue  
Glendale, New York 11385

Have questions?  
See  
"Who to Contact"  
Below

### Cleanup Activities to Begin at State Superfund Site

Activities are about to begin that will address the contamination related to the Kliegman Brothers site ("site") located at 76-01 77th Avenue, Glendale, Queens County under New York's State Superfund Program. Please see the map for the site location.

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.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information." The cleanup activities will be performed by the NYS Department of Environmental Conservation ("NYSDEC").

#### Highlights of the Upcoming Cleanup Activities

The goal of the cleanup activities for the site is to achieve cleanup levels that protect public health and the environment. The cleanup activities for the site include:

1. In-situ chemical oxidation for the area of the plume as it leaves the Kliegman Brothers site proper to reduce the highest concentration levels of Volatile Organic Compounds (VOCs) in the groundwater. By lowering the concentrations of VOCs in the groundwater at the beginning of the plume, the threat of soil vapor intrusion will be reduced since the concentrations would decrease after the remedy is implemented.
2. Installation of injection well pairs at 12 locations along the north half of 76<sup>th</sup> Street and new monitoring wells downgradient of the remaining contaminant plume. Several sodium permanganate in situ chemical oxidation injection events will occur following injection well installation, each expected to last a few weeks to one month.
3. Evaluation of the need to monitor and assess soil vapor levels at adjacent residences will continue.
4. Monitoring the natural decline of groundwater contamination using existing wells and additional wells to be installed during the cleanup phase of the project.

\**Operable Unit*: An administrative term used to identify a portion of a site that can be addressed by a distinct investigation and/or cleanup approach. An operable unit can receive specific investigation, and a particular remedy may be proposed.

5. Since the remedy results in untreated hazardous waste remaining in OU2 of the site, a long- term monitoring program will be instituted. Monitoring will include the groundwater and soil vapor. This program will monitor the effectiveness of the in-situ chemical oxidation injection and the indoor air and will be a component of the operation, maintenance, and monitoring for the site.
6. Development of a site management plan (“SMP”) to address residual contamination and any use restrictions to be incorporated into the existing SMP for the onsite portion of the project (OU1).
7. The institutional controls imposed by the OU1 ROD would remain in effect. These controls, in the form of an environmental easement: (a) require compliance with the approved SMP; (b) limit the use and development of the Kliegman Brothers site to commercial, industrial and/or restricted residential only; (c) restrict the use of groundwater as a source of potable water, without necessary water quality treatment as determined by NYSDOH and/or the New York City Department of Environmental Protection; and (d) require the property owner to complete and submit to the Department a periodic certification.
8. An IC/EC certification will be provided, prepared and submitted by a professional engineer or such other expert acceptable to NYSDEC on a periodic basis. This submittal contains certification that the institutional controls and engineering controls are still in place, allows NYSDEC access to the site, and that nothing has occurred that would impair the ability of the control to protect public health or the environment, or constitute a violation or failure to comply with the SMP.

### **Next Steps**

Injection well drilling activities are anticipated to be initiated in July 2013 and continue into Fall 2013. Following injection well installation, it is the intention of the NYSDEC to complete groundwater injections by early 2014. Groundwater monitoring activities will continue uninterrupted during this period and continue for an indefinite time period thereafter.

The cleanup activities will be performed by a remedial contractor, EnviroTrac Ltd., with oversight provided by the NYSDEC's engineering consultant for this project, URS Engineering. In addition, the contractor's Community Protection Plan for the work was reviewed to ensure that on-site workers and the nearby community are protected during these activities. A copy of that plan has been placed into the document repositories identified below.

After completion of the cleanup activities, the NYSDEC will prepare a Final Engineering Report. The Final Engineering Report will describe the cleanup activities completed and certify that cleanup requirements have been achieved or will be achieved.

The NYSDEC will keep the public informed throughout the cleanup of the site.

### **Background**

*Location:* The site is located at 76-01 77th Avenue in Queens County, New York.

*Site Features:* The site is bordered to the north by the Long Island Railroad. Residences border the site to the east, west and south. This site has an area of approximately 37,000 square feet, of which 26,000 is occupied by a building. A basement exists under the western portion of the building. The area around the Site building is paved with asphalt. The Site property is surrounded by chain link and corrugated metal fencing.

*Current Zoning/Use(s):* The site is used for commercial purposes, and the surrounding area is mixed commercial and residential.

*Historical Use(s):* The 0.85 acre site was formerly owned by Kliegman Brothers Inc. This site was used as a warehouse and distribution center for laundry and dry-cleaning supplies from the 1950s through the 1990s. The site contained two 6,000 gallon above ground storage tanks which were used to store tetrachloroethene (PCE). The tanks have since been removed from the property, but are presumed to be the source of contamination. Kliegman Brothers Inc. ceased operation in 1999. The site was purchased in 2000, and was most recently used as a warehouse for an imported food distributor. Known contamination at the site is unrelated to operations since 2000.

*Operable Units:* The site was divided into two operable units. OU1 of the Kliegman Brothers project addresses on-site contaminated soils, which are the source of the contaminated groundwater and soil vapor being addressed by OU2. OU2, which is the subject of this fact sheet, consists of a portion of the remedy and addresses the groundwater both onsite and offsite as well as the soil vapor impact offsite.

*Site Investigations and Remedial Activities:* In November 2000, the NYSDEC listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. A Class 2 site is a site where hazardous waste presents a significant threat to the public health or the environment and action is required. There were at least six previous investigations performed at this site from 1997 through 2002 for OU1. All of these investigations revealed the presence of PCE, often at high concentrations. The remedy for OU1 was selected in a March 2006 Record of Decision (ROD). Remedial design ("RD") of the OU1 cleanup remedy was completed by NYSDEC in April 2007. Construction of the remedy was completed in December 2007. OU1 is currently being remediated by the NYSDEC using a Soil Vapor Extraction (SVE) System. To date, over 54,000 pounds of VOCs have been removed from on-site soils.

The remedial investigation for OU2 was conducted from April 2002 to April 2006. In March 2008, the NYSDEC signed a ROD for OU2. The state funded RD was completed in November 2012 and included further investigations of off-site groundwater contaminant concentrations. The data generated and evaluated during the RD identified and justified changes in the remedy approach. The latest groundwater sampling results confirm that the OU2 plume has shrunk in size as a result of the remediation activities associated with OU1. In April 2013 an Explanation of Significant Differences was issued by the NYSDEC describing how the remedial approach originally presented in the OU2 ROD has been modified to address the remaining contaminant concentrations within and in close proximity to 76th Street.

*Site Geology and Hydrogeology:* The site is generally made up of approximately 2 feet of fill material consisting of concrete or asphalt on top of reworked native soil materials. Brown loose to dense, fine to coarse silty sand to sandy silt with localized sandy clay seams was observed to depths of approximately 10 feet below ground surface (bgs). This layer is underlain by brown loose to dense, fine to coarse sand with variable amounts of fine to coarse gravel to depths of 148 feet bgs. The regional groundwater table occurs at the site at approximately 70 feet bgs within the upper glacial aquifer. However, perched groundwater was observed in several wells above a clay layer in the eastern portion of the site. The site topography and surrounding area is relatively flat.

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

<http://www.dec.ny.gov/cfm/extapps/derexternal/haz/details.cfm?pageid=3&progno=241031>

**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.

Queensboro Public Library - Glendale Branch  
78-60 73rd Place  
Glendale, New York 11385  
phone: (718) 821-4980

NYSDEC - Division of Environmental Remediation  
Attn: David J. Chiusano  
625 Broadway  
12th Floor  
Albany, New York 12233-7017  
phone: (518)402-9814  
([djchiusa@gw.dec.state.ny.us](mailto:djchiusa@gw.dec.state.ny.us))

Project documents are also available on the NYSDEC website at:  
<http://www.dec.ny.gov/chemical/37550.html>

### Who to Contact

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

#### Project Related Questions

David Chiusano  
Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, NY 12233-7017  
518-402-9814  
[djchiusa@gw.dec.state.ny.us](mailto:djchiusa@gw.dec.state.ny.us)

#### Site-Related Health Questions

Stephanie L. Selmer  
NYSDOH - Bureau of Environmental Exposure Investigation  
Empire State Plaza  
Corning Tower  
Room 1787  
Albany, NY 12237  
(518) 402-7860  
[BEEI@health.state.ny.us](mailto:BEEI@health.state.ny.us)

**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.

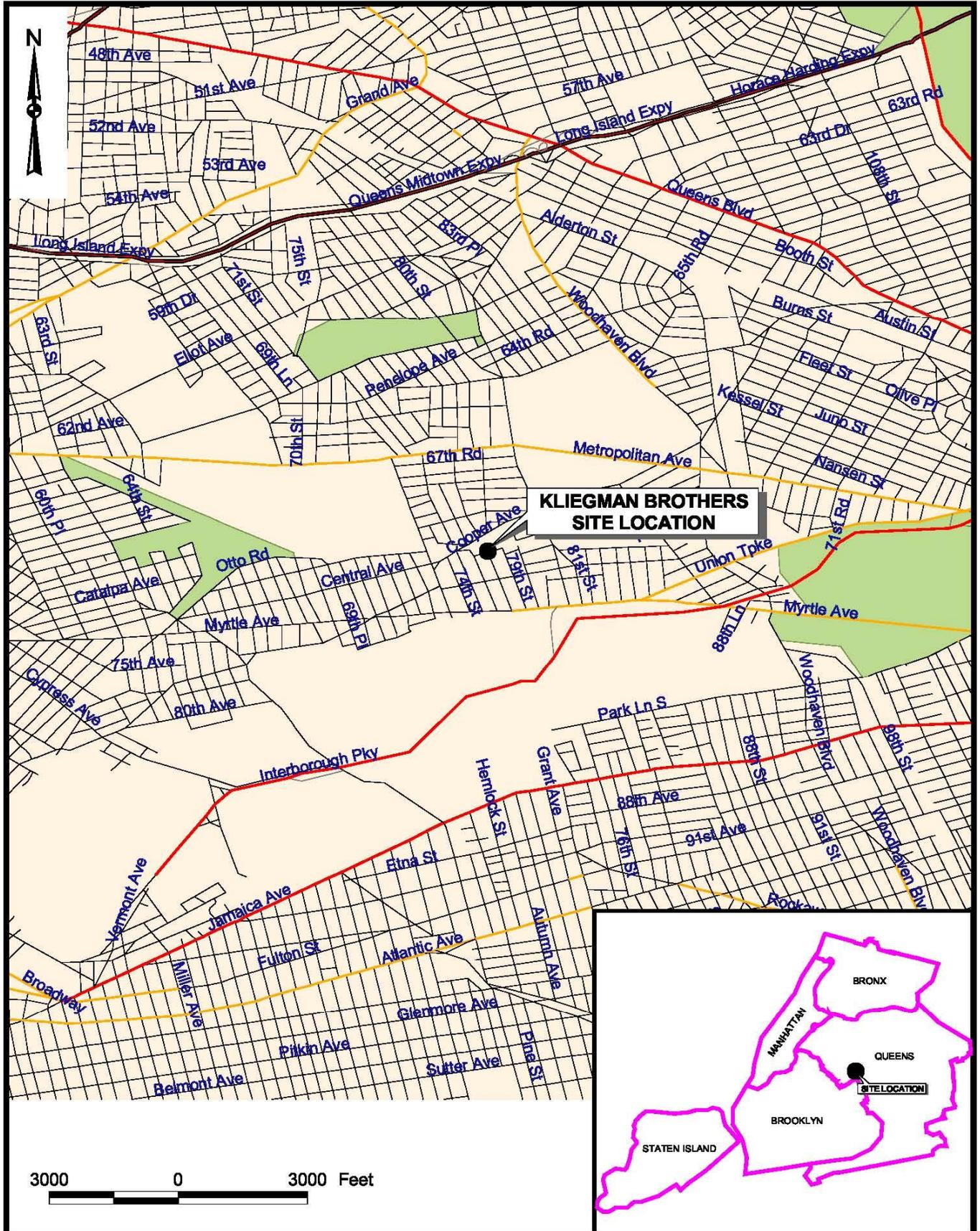
NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page:

<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.



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 10/7/2005



**KIEGMAN BROTHERS  
SITE LOCATION MAP**

**FIGURE 1**

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**Legend**

- Proposed Monitoring Well
- ✦ Proposed Injection Well Pair Location
- ⊕ Existing Monitoring Well
- ⊕ Performance Monitoring Well
- ▨ Remediation Area - March 2008 ROD
- ▨ Remediation Area - January 2013 ESD



KLIEGMAN BROTHERS  
 COMPARISON OF REMEDIATION AREAS  
 MARCH 2008 ROD AND JANUARY 2013 ESD



FIGURE 2