United States
Environmental Protection
Agency

Office of Public Affairs
Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Illinois, Indiana
Michigan, Minnesota
Ohio, Wisconsin

Cleanup to Begin at Lockformer

Lisle, Illinois February 2002

Availability Sessions

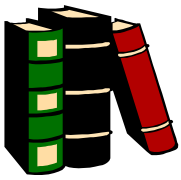
To find out more about the cleanup of the Lockformer property, attend one of the availability sessions being sponsored by U.S. EPA. At the availability sessions, U.S. EPA representatives will be present to meet and discuss one-on-one with area residents the technologies to be used at the site and the schedule for the cleanup activities.

Date: Tuesday, Feb. 26, 2002

Times: 12 p.m. - 3 p.m. and 6 p.m. - 9 p.m.

Location: Lisle Library District
777 Front St.
Lisle, Ill.
(630) 971-1675

Information Repository



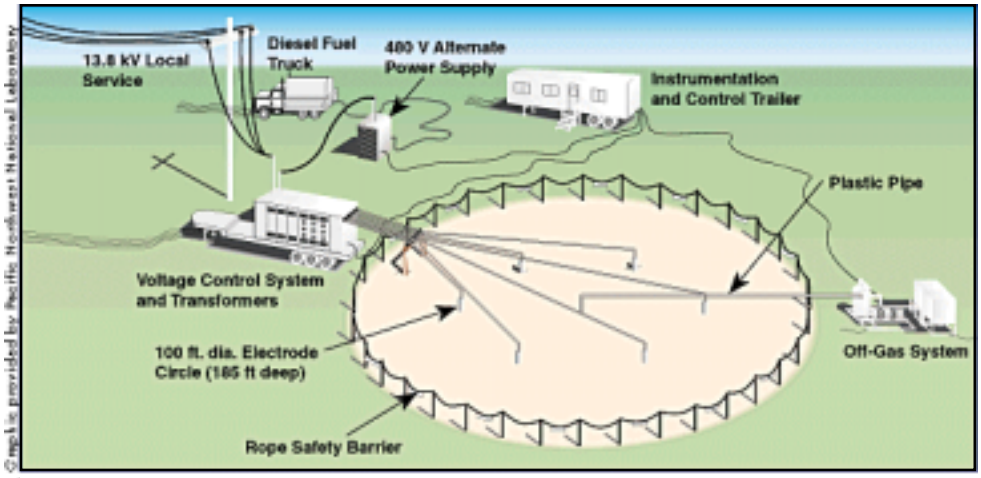
Copies of technical reports, fact sheets, and other documents related to the Lockformer cleanup are available at information repository set up at the following local library:

Lisle Library District
777 Front St.
Lisle, Ill.

Web Sites

This and additional site information can also be found on the following Web sites:
www.epaosc.net/lockformer
www.epa.gov/region5/sites/
Scroll through to find the Lockformer site.

Typical Electrical Resistive Heating Diagram



Introduction

The Lockformer site is located at 711 W. Ogden Ave. in Lisle, Illinois. Lockformer manufactures parts and equipment for the metal fabricating industry. Lockformer's metal fabrication processes involve the use of a trichloroethylene vapor degreaser in a degreaser tank and pit located inside the manufacturing building. From approximately 1970 to 1992, the degreaser pit drew its TCE from a 500-gallon storage tank located on the roof of the facility. Degreaser spills occurred at the site during delivery of TCE to the TCE storage tank. Contaminated soil was first discovered at the site in the fall of 1991 during underground water line repair work conducted on the west side of the building. In 1992, Lockformer conducted soil sampling and detected TCE at concentrations as high as 680,000 parts per billion in soil at the site. The United States Environmental Protection Agency and Illinois EPA will oversee the cleanup of the soil on the Lockformer property this year.

Cleanup Activities

The cleanup at Lockformer will begin this spring and will initially involve the collection of soil and ground-water samples. This will be followed by using several technologies to clean up the soil. The top layer of soil, which lies approximately 10 to 35 feet beneath the surface and consists of a silty clay and till, will be treated with a technology called electrical resistive heating. (See the diagram above.) This technology works by heating the soil with electricity to create steam. The contaminants attach to the steam and are physically carried up to the surface as the steam rises. The steam and contaminants are then collected and passed through carbon filters to remove the contaminants. The cleaned air is then released into the atmosphere and the clean water is pumped to a publicly owned treatment works. Electrical resistive heating is especially suited to sites where contaminants are tightly bound to clays and are therefore difficult to remove using other methods. Due to a high concentration of clay in the top layer of soil on the Lockformer property, this technology is well suited to this site. This technology has been demonstrated successfully at sites in Waukegan and Skokie, Ill. At both locations, concentrations of contaminants in the soil were significantly reduced.

Beneath the top layer of soil is a layer of sand and gravel. This layer will be treated with a technology called soil vapor extraction. This technology works by drilling wells into the

affected layer of soil and using a vacuum pump to bring contaminated vapors trapped in the soil to the surface. The vapors will be put through a carbon filter before being released. These emissions will be monitored continuously to ensure that they meet state and federal air quality standards. In addition to extracting vapors from the soil, moisture trapped in the soil will be extracted and treated, if necessary, before being sent to a local publicly owned treatment works facility. Finally, U.S. EPA will supervise the cleanup of a former degreaser pit located inside the manufacturing building. The degreaser tanks have been removed from the facility and U.S. EPA is proposing to treat the soil beneath the building with either soil vapor extraction, electrical resistive heating, or excavation and disposal. The final technology selected is dependent on the results of a study being conducted to determine if soil vapor extraction will work successfully at that location.

Air Monitoring and Health and Safety

U.S. EPA will require Lockformer to monitor air emissions continuously during the treatment of the soil. U.S. EPA will closely oversee the air monitoring activities. While the electrical resistive heating operates, a musty soil-like odor may be detected downwind of the facility. A fence will be installed around the areas where soil will be treated and personnel will be present at the site 24 hours a day, seven days a week.

For More Information

For more information about the Lockformer cleanup, please contact:

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