



Kauffman & Minter Site Cleanup Plan

Community Update

February 2009

HISTORY/BACKGROUND INFO

Kauffman & Minter, Inc. operated a waste transportation business. The company provided transport services in company-owned tankers, carrying bulk liquids consisting primarily of organic substances including plasticizers, resins, vegetable oils, soaps, petroleum oils and alcohols. From 1960 to 1980, the company discharged wastewater used to clean the inside of its trucks into a drainage ditch and an unlined lagoon on-site. The wastewater contained hazardous substances.

If you have questions or would like additional information, please contact:

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Or call our Toll-Free
Superfund Hotline at
1-800-346-5009

PROGRESS REPORT

ISCO 1 Injection Event

The event was completed in two phases, from March 28, 2008 to April 28, 2008, and then from May 12 -16, 2008. To assess the effectiveness of the first scale injection event, soil and ground water sampling was performed from July 7, 2008 to July 18, 2008.

Interim 1 Sampling Event

The overall objective of this project is to reduce concentrations of Trichloroethylene (TCE) and Dichloroethylene (DCE) in soil and ground water in the source area of the site. The objectives of the Interim 1 Sampling Event included collection and analysis of soil and ground water samples used to assess the effectiveness of the ISCO 1 Event with respect to the cleanup criteria, and for use in optimizing additional ISCO treatment. The interim results were compared in part to baseline conditions to assess the effectiveness of the ISCO Event 1 treatment approach and to support the refinement of the approach for subsequent oxidant injection events given the current conditions.

In general, soil results from the Interim 1 Sampling Event show varied reductions in TCE and DCE concentrations in all treatment areas. TCE and DCE concentrations exceeding the soil cleanup level were detected in at least one soil sample in 10 of 14 soil borings installed in Area C and within the two soil borings installed outside the treatment zone.

Ground water, samples containing TCE and DCE above the ground water reference value of 1000 parts per billion (ppb) appear to occur in isolated locations which include the shallow well located at the center of Area C and the deeper well located downgradient from Area C.

Based on these results, EPA's contractor completed additional field testing in order to assess the conditions in the treatment zone prior to conducting the second full-scale ISCO injection event.



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DEFINITIONS

IN-SITU CHEMICAL OXIDATION

(ISCO): Involves the introduction of a chemical oxidant into the ground for the purpose of transforming undesirable chemicals into substances that are harmless.

REAGENT: A substance that takes part in or brings about a particular chemical reaction.

TRICHLOROETHYLENE (TCE): A stable, low boiling point colorless liquid, toxic if inhaled. Used as a solvent or metal degreasing agent, and in other industrial applications.

DICHLOROETHYLENE (DCE): An organic liquid with a mild, sweet, chloroform-like odor. It is used in making adhesives, synthetic fibers, refrigerants, food packaging and coating resins.

ISCO 2 Injection Event

The ISCO treatment program for this event, includes the same oxidants as the first injection event with improvements in the delivery methods and a modification in the reagent application sequence. The ISCO treatment area for this event included areas in which TCE and/or DCE were detected in soils and ground water at concentrations greater than 500 ppb during the Interim 1 Sampling Event.

This event started on December 9, 2008 and lasted until January 13, 2009. After a seven-week stabilization time, an interim performance sampling is scheduled to start sometime in March. Data evaluation and submittal for this event is scheduled to be completed in May.