



Region 7

Iowa
Kansas
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Fact Sheet

July 2003

Second Five-Year Review Completed **Lindsay Manufacturing Superfund Site, Lindsay, Lindsay, Nebraska**

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) conducts regular checkups, called five-year reviews, on Superfund sites where cleanups have been completed. EPA Region 7 and the Nebraska Department of Environmental Quality (NDEQ) have completed the second five-year review of the Lindsay Manufacturing Superfund site in Lindsay, Nebraska. The site is located in Platte County, Nebraska adjacent to the city of Lindsay, Nebraska.

EPA and NDEQ conducted the five-year review to make sure the cleanup continues to protect people and the environment.

Before site remediation began, some soils within the manufacturing facility were contaminated and the contaminated ground water was migrating from the site. The site posed a possible risk to the public health through:

- drinking water from contaminated private wells,
- direct contact with contaminated water,
- inhaling contaminants released during water use and,
- eating food in which contaminants have bioaccumulated.

BACKGROUND

Lindsay Manufacturing operates on a 42-acre site and manufactures

galvanized irrigation systems. Wastes from the galvanizing process were discharged into an unlined earthen lagoon for 10 years between 1972 and 1982.

Prior to the remedial actions, contaminants of concern at the site included: zinc, iron, cadmium, sulfate, chromium, lead and volatile organic compounds (VOCs), including dichloroethylene, dichloroethane, tetrachloroethylene and trichloroethane.

GROUND WATER RESTORATION

In 1984, Lindsay constructed and began operating a pump and treat system to remove and treat the contaminated ground water. Two additional extraction wells were added to the system.

In 1996, the EPA and NDEQ approved the use of irrigation as a means for disposal of the extracted ground water. In 1998, a review of site information indicated the contaminants found in the existing wells were no longer at levels of concern. Lindsay proposed to use one monitoring well (MW89-12) as the extraction well. This well was shown to be the most contaminated well at the site. Once the well demonstrated that it was capable of capturing the contaminated ground water, the EPA and NDEQ approved of this modification.

Lindsay performs quarterly ground water monitoring to aid EPA and NDEQ in

evaluating the progress of the aquifer restoration.

SOIL RESTORATION

In 1995, Lindsay began the operation of the soil vapor extraction system which addressed the VOCs contamination present in the soils at the site. This system was operated until spring of 1998 when EPA determined the cleanup standards for the soil cleanup had been achieved.

FIVE-YEAR REVIEW

The EPA completed its first five-year review of the Lindsay Manufacturing Superfund Site in July, 1998. The first review found the remedies being implemented were protective of human health and the environment. This second five-year review discusses the progress made in the past five years to address the contamination remaining in the ground water.

EPA and NDEQ considered a significant amount of information before concluding the site remains safe and protective in the short-term, but needs additional work efforts to ensure the site remains protective in the long-term.

The site was inspected in February 2003. Quarterly ground water monitoring reports, operation and maintenance reports, and site records were reviewed. Interviews with local officials and concerned citizens were also conducted at that time.

The following issues were noted in the report and these recommendations were made:

- installation of whole house treatment systems should be completed at the Beller and Priester homes,
- additional monitoring wells be installed downgradient of the Priester's well,
- an additional extraction well be installed between monitoring well MW92-3 and Priester's,

- all domestic supply wells south of Lindsay be identified and monitored,
- alternatives be identified to determine the best way to halt the migration of the plume and to remediate the site.

The EPA will conduct another five-year review in 2008.

ADDITIONAL INFORMATION

During the five-year review, EPA studied information on the site, and inspected the site to make sure it continues to be safe. The EPA held a community meeting where the community was encouraged to tell EPA and NDEQ about site conditions or concerns.

Detailed site information, including the second five-year review can be found at the following locations:

Columbus Public Library 2504 14 th Street Columbus, NE	EPA Record Center 901 N. 5 th Street Kansas City, KS
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If you have questions or need more information on the Lindsay Manufacturing Superfund Site or the five-year review process, please contact:

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