

# FACT SHEET



## 57<sup>th</sup> and North Broadway Site Wichita, Kansas

July 1999

### Introduction

The U.S. Environmental Protection Agency (EPA) Region 7 has completed a study of remedial cleanup alternatives. The cleanup alternatives deal with the groundwater and soil contamination at the 57<sup>th</sup> and North Broadway site, Wichita, Kansas.

EPA's Proposed Plan summarizes the remedial cleanup alternatives. The alternatives are evaluated in EPA's Feasibility Study (FS). The FS includes the basis for EPA's preferred alternative.

EPA, in consultation with the Kansas Department of Health and Environment will decide how the contaminated groundwater and soils are addressed. EPA will make a decision only after all public comments are considered.

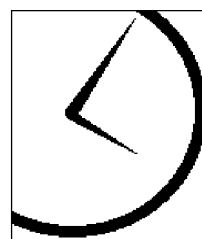
The decision will be published in a Record of Decision (ROD). The ROD will also include a responsiveness summary. The responsiveness summary is the agency's response to comments received during the public comment period.

### Site Background

The 57<sup>th</sup> and North Broadway site is located in Park City, Wichita, and, an unincorporated area of Sedgwick County. The site lies predominantly to the southwest of the extension of 58<sup>th</sup> Street and Chisholm Creek.

The area of the 57<sup>th</sup> and North Broadway site has historically been a mixed community of residential, agricultural, commercial, and light industrial units. The site is on EPA's National Priorities List (NPL). The NPL is EPA's list of sites eligible for remedial cleanup under the Superfund program.

Officials were first alerted to the presence of contamination in 1983 when local residents complained about the poor quality of the drinking water. Investigations conducted in



### Take the Time

EPA will hold a public meeting 7 p.m., Thursday, July 29, 1999 at the Wichita Best Western Red Coach

Inn, 915 E. 53<sup>rd</sup> Street North, Wichita, Kansas.

The purpose of the meeting is to take written and oral comments on the Proposed Plan that deals with the clean up of the contaminated groundwater and soils at the 57<sup>th</sup> and North Broadway site. The 30-day comment period opened July 14, 1999 and closes August 12, 1999. You may submit comments to EPA through August 12, 1999.

response to these concerns identified volatile organic compounds (VOCs) above drinking water standards in the area groundwater. The investigations also identified VOC contamination in the soils, and surface water on, beneath, and next to the site.

In 1990, EPA provided bottled water to residents and small businesses affected by the contamination. These residents and businesses were provided clean water through hookups to the Park City Water District.

### **Riverview Operable Unit**

Evaluation of data from the Remedial Investigation (RI) revealed contamination in the groundwater southwest of the original plume. EPA conducted investigations in the Riverview area and found vinyl chloride and other VOC contamination in the groundwater. A separate Proposed Plan and ROD were executed for Riverview.

The Riverview ROD called for connecting 54 contaminated and threatened households to the city's public water system, installing a series of in-well strippers to control the plume through treatment, and plume monitoring to evaluate the effectiveness of the treatment system. This will protect additional residents from exposure to unacceptable levels of contamination. These actions are currently underway in the Riverview area.

### **EPA's Preferred Alternative**

EPA's Preferred Alternative is a combination of groundwater and soil remediation. EPA evaluated and developed several alternatives during the FS to clean up the groundwater and soils on the site. All of the alternatives are described in detail in the Proposed Plan.

EPA looked at the following groundwater alternatives:

1. No Action
2. Natural Attenuation
3. Containment/Air Stripping w/Tray Aeration
4. Containment/In Situ Vapor Extraction
5. Active Restoration/Air Stripping w/Tray Aeration
6. Active Restoration/In Situ Vapor Extraction
7. Active Restoration/In Situ Chemical Oxidation and In Situ Vapor Extraction

EPA looked at the following alternatives for soil:

1. No Action
2. Containment/Slurry Wall & Cap
3. Excavation and Off-site Incineration
4. Excavation and Off-site Landfill Disposal
5. In Situ Soil Vapor Extraction

EPA's preferred alternative for the groundwater is to remove the contamination from the groundwater using in-well strippers, Alternative 6. This will actively restore the aquifer to cleanup goals. The contaminants would be removed from the groundwater by in situ vapor extraction. This will be done by creating a circulation zone of aerated water. The vapors are extracted by using a vacuum and discharged to the air.

The groundwater would be monitored to determine the effectiveness of the treatment system. Institutional controls would also be applied to prevent contact with the groundwater until remediation goals are achieved. This alternative will cost about \$1.4 million.

EPA's preferred alternative for the contaminated soils is to treat the soils in-place using a soil vapor extraction (SVE) system, Alternative 5. Three SVE wells and a series of observation wells would be installed. The soil vapor containing the VOC contamination would be extracted through the extraction wells using vacuum pumps. EPA estimates that this alternative will cost about \$238,000 to implement.

Additional soil investigations will be required on the Midland Refinery property to ensure soil contamination does not exist. If contaminated soil is found it will be treated using soil vapor extraction.

### **Additional Information**

EPA encourages community members to comment on the Proposed Plan for the 57<sup>th</sup> and North Broadway site and the accompanying documents. The documents are in the Administrative Record File (a single file of all documents about the remedy selection process). The Administrative Record File is available for public review at the following information repositories, during normal business hours:

Wichita-Sedgwick County  
Health Department  
1900 W. 9<sup>th</sup> Street  
Wichita, Kansas

EPA Region 7 Docket Room  
901 N. 5<sup>th</sup> Street  
Kansas City, Kansas

Comments can be submitted orally or in writing. Comments can be made at the public meeting, or written comments (postmarked by August 12, 1999) to:

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EPA Region 7  
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