

Health Consultation

PREMCOR REFINERY SITE

BLUE ISLAND, COOK COUNTY, ILLINOIS

EPA FACILITY ID: ILN000508156

MAY 18, 2006

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service

Agency for Toxic Substances and Disease Registry

Division of Health Assessment and Consultation

Atlanta, Georgia 30333

Health Consultation: A Note of Explanation

An ATSDR health consultation is a verbal or written response from ATSDR to a specific request for information about health risks related to a specific site, a chemical release, or the presence of hazardous material. In order to prevent or mitigate exposures, a consultation may lead to specific actions, such as restricting use of or replacing water supplies; intensifying environmental sampling; restricting site access; or removing the contaminated material.

In addition, consultations may recommend additional public health actions, such as conducting health surveillance acti

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Prepared by:

Illinois Department of Public Health
Under Cooperative Agreement with the
U.S. Department of Health and Human Services
Agency for Toxic Substances and Disease Registry

Purpose

The Illinois Department of Public Health (IDPH) conducted this health

Discussion

Chemicals of Interest

IDPH compared the results of each of the available groundwater samples with the appropriate ATSDR screening comparison value used to select contaminants for further evaluation for carcinogenic and noncarcinogenic health effects. Chemicals found at levels greater than comparison values and those for which no comparison values exist were selected for further evaluation. A discussion of each comparison value used can be found in Attachment 2.

- the moisture and porosity of soils through which vapors must travel.

The guidance states that if a building is vertically or laterally greater than 100 feet from the source of potential vapors, the building is expected to be too far away from the source to be affected by vapor intrusion (4).

Based on the data reviewed and the informati

Recommendations

IDPH recommends the following activities for the site:

- \$ Illinois EPA will continue sampling on and off the site to determine the extent of contamination.
- \$ Illinois EPA will sample off-site groundwater to determine if the contamination is migrating off of the site.

Public Health Action Plan

IDPH staff have reviewed the results from the 2005 URS investigation from the Northwest and Southwest Terminals. IDPH has responded to several citizen inquiries regarding health concerns related to the site. When additional environmental sampling is performed, IDPH staff will provide a health-based evaluation of these data for the residents and participating agencies.

Preparer of Report

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References

1. Illinois Environmental Protection Agency. Former Premcor Refinery Environmental Investigations, Fact Sheet #1. Springfield: Illinois Environmental Protection Agency; 2004.
2. URS Corporation. Hollow Stem Auger Rationale Northwest Terminal (Area 3). Milwaukee, WI: URS Corporation; 2005(Feb.).
3. URS Corporation. Hollow Stem Auger Rationale Southwest Terminal (Area 4). Milwaukee, WI:URS Corporation; 2005 (Jan.)
4. US Environmental Protection Agency. Guidance Document on Vapor Intrusion. Available at <http://www.epa.gov/correctiveaction/eis/vapor.htm>. Accessed April, 2005.

Attachment 1



Vertical Datum



1.

2.