

December 2008 Update

**Wasatch Chemical Company (Lot 6) Superfund Site**  
Salt Lake City, Utah  
(Five-Year Review Date 9/28/07)

## *H*ighlights Since the 2007 Five-Year Review

- Questar expects formal well permit restrictions by March of 2008.
- Semi-annual progress reports for 2007 received.

**Brief Site History:** The Wasatch Chemical Company is an 18-acre site located at 1987 South 700 West in Salt Lake City. In the process of making pesticides, herbicides and various chemical products, the company contaminated source areas, soils and groundwater. The main contaminants of concern are herbicides, pesticides, dioxins, semi-volatile and volatile organic compounds (VOCs [carbon-based substances that evaporate easily]). Also, the onsite groundwater is contaminated with hydrocarbons, particularly xylene and toluene. These contaminants have the potential to cause liver and kidney damage and have been shown to cause cancer in mice. Dioxin compounds can have harmful effects on human reproductive and immune systems. The site was added to EPA's Superfund National Priorities List in 1991.

**Cleanup Activities Completed:** The potentially responsible party (PRP) (Entrada Industries) completed the following activities in 1995 and 1996:

- Land farming of 1100 cubic yards of hydrocarbon-contaminated soil to break down the organic materials, thus removing the contamination (biodegradation).
- In-situ vitrification of 5600 cubic yards of soil contaminated with other chemicals. The process melted the soil into vitrified (glass like) material free of organic content.
- Installation of a groundwater extraction and treatment system.

**Current Status:** The third five-year review for Wasatch Chemical Company was completed on September 28, 2007. EPA solicited public comment and notices were placed in the local newspaper notifying the community when the five-year review was in progress.

The second five-year review was conducted in 2002. Pump and treat was discontinued in January 2003 due to drought and low water conditions. EPA approved a Monitored Natural Attenuation Work Plan in November 2002. Questar has also implemented the use of hydrogen reducing compound to enhance natural attenuation of chlorinated

hydrocarbons. Enhanced biodegradation activities were conducted in May 2004 and July 2006. The remedy has been considered operational and functional since 1994. Current concentrations of contaminants in shallow groundwater have been decreasing with time. Semi-annual progress reports were received on June and January for 2007. The first semi-annual progress report for 2008 is scheduled to be submitted in July.

**Summary of Protectiveness:** The remedy as implemented is currently protective of human health and the environment. Contaminated groundwater remains within the site boundaries and no evidence of groundwater use was identified. Soils and wastes containing contaminants above performance standards were successfully and permanently treated. Institutional controls prohibiting residential land use are in place.

**Issues Impacting Protectiveness:** A few issues that do not immediately impact the protectiveness of the remedy were noted. The following table summarizes the status of the follow-up actions addressing these issues.

**Wasatch Chemical Company (Lot 6) Superfund Site  
Five-Year Review Update Table  
(Review Date: 9/28/07)**

| Issues   | Recommendations<br>Follow-up Actions   | Follow-up<br>Actions<br>(Status/Due<br>Date) | Status of Follow-up Actions<br>12/08  | Responsible<br>Party |
|--|--|--|---|----------------------|
| 1) Site conditions may meet the requirements for a waiver or modification of the Action Level Performance Standards for groundwater as defined in the Consent Decree (CD). | Evaluate site data against criteria for waiver or modification of the Action Level Performance Standards for groundwater   | 6/30/09                                      | Questar submitted a proposal in August 2008 for implementation of Monitored Natural Attenuation (MNA) at the site. EPA and UDEQ are evaluating that proposal<br><br>On going as of December 2008                        | EPA                  |
| 2) Hypothetical future occupied buildings constructed over portions of the remaining groundwater contaminant plume   | Modify land use restriction institutional control to require an assessment of risks related to contaminant vapor intrusion | 6/30/2009                                    | Questar will research options for formalized institutional controls related to potential intrusion of VOC vapors into new occupied buildings constructed on the site. Depending on findings, Questar will implement the | Questar              |

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|--|---|--|--|----------------------|
| <b>may result in unacceptable human exposure to volatile organic vapors.</b>   | prior to approval of a building permit for occupied structures.             | 12/25/08                                     | appropriate controls.<br><br>Questar submitted Environmental Covenant to regulatory agencies for signature.  |                      |
| <b>3) Utah Division of Water Rights does not report the site and vicinity as restricted for groundwater use</b>  | Implement restriction through Utah Division of Water Rights.                | 12/31/2007                                   | Complete:<br>Questar submitted a letter to the Utah Division of Water Rights on December 13, 2007 requesting their assistance in implementing restrictions on well permits and acquisition of water rights concerning groundwater beneath the site. The State Engineer's office implemented a formal process in February 2008 to produce a warning e-mail notification to DEQ-DERR and EPA whenever there is an application to divert water from the site. | Questar              |
| <b>4) Vinyl chloride is present at concentrations up to 80 times the Maximum Contaminant Load (MCL) but is not considered to be an indicator chemical subject to the requirements of the CD or Record of Decision (ROD).</b> | Consider the addition of vinyl chloride to the list of Indicator Chemicals. | 6/30/2009                                    | Questar plans to participate in conversations with USEPA and UDEQ concerning the addition of vinyl chloride to the indicator chemicals list.<br><br>Vinyl chloride will likely be added as an indicator chemical when remedy is modified, expected in 2009   | EPA                  |