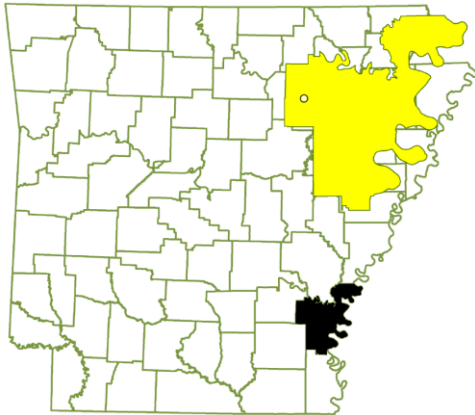


# Star Starrett Facility

## STATE PRIORITY LIST SITE DUMAS, ARKANSAS



ADEQ  
5301 Northshore Drive  
North Little Rock, Arkansas 72118



EPA RCRA ID No: N/A  
EPA CERCLA ID No: ARD041054552  
AFIN: 21-00049  
County: Desha  
Arkansas Senate District: 23  
Arkansas House District: 12  
US Congressional District: 4

### Current Status

The Star Starrett Facility is currently being leased to Joerns Healthcare and is used for storage of furniture products as well as bagged and bulk pet food. A groundwater sampling event was conducted on behalf of ADEQ in April 2015. Mr. Kelly Farmer owns roughly 21 acres of the western portion of the site and another approximately 3.5 acres in the southeastern portion of the property. Holland USA owns 1.528 acres in the southwestern portion of the property adjacent to other Holland USA property. Akin Holdings Inc. purchased about 15.67 acres in the northeastern portion of the property including the manufacturing building and land surrounding it. Mr. Akin entered this parcel into the Arkansas Brownfield program in 2012.

Groundwater sampling was conducted at the site in April 2014 and April 2015. Updated indoor air sampling was conducted 05/05/16. The conclusion of the report was that the groundwater contaminant plume is under control and below the maximum contaminant level for all constituents of concern. The monitoring wells on and adjacent to the property were plugged and abandoned the week of September 14, 2016. The site was removed from the State Priority List on September 28, 2018.

## **State Priority List History**

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The Star Starrett site was added to the State Priority List on June 3, 2010. The Star Starrett site is located in the population center of Dumas, Arkansas. The city of Dumas and the facility landowners conducted a Phase II Elective Site Assessment (ESA) in April 2006 which indicated trichloroethylene (TCE) and metal contamination in groundwater. Additional studies resulted in a Site Assessment Report (SAR) and supplement to that report completed in April and August, 2007 respectively. These reports were prepared for Leer Limited Partnership by Lybrand Consulting, LLC. Findings indicate that site soil and groundwater have been impacted by organic compounds including, benzene, TCE and its degradation products including 1,1 dichloroethene, cis-1,2 dichloroethene, and vinyl chloride, and metals predominantly arsenic, chromium, and cadmium. In addition indoor air monitoring results taken in the manufacturing building contain detectable levels of volatile organic compounds (VOCs) primarily TCE, tetrachloroethene (PCE), chloroform, benzene, 1,2,4- trimethylbenzene, 1,4- trimethylbenzene, and methylene chloride.

## **Site Description**

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**Location:** The site is located within the town of Dumas, in Desha County, Arkansas. The physical address is 1008 Hwy 65 South, Dumas, Arkansas, 71639. The geographical location is latitude 33°53'12"N, longitude 91°29'19"W (33.886626, -91.488544). According to the United States Census Bureau, the city has a total area of 3.0 square miles (7.7 km<sup>2</sup>) of incorporated land.

**Population:** The estimated population of Dumas, Arkansas is 4,533 as recorded in the 2012 census.

**Setting:** The site is located in Dumas, Arkansas along Highway 65 South. South Main Street borders the western portion of the property and Industrial Road extends along the northern property boundary. The entire site, which contains both the manufacturing facility on the eastern portion and an agricultural section on the western portion, consists of approximately 40 acres.

**Hydrology:** The site is relatively flat with primary surface runoff to the southeast. Groundwater flow is predominantly to the north. The upper water bearing unit is in the Herbert Silt Loam. This unit is supported by slopes of less than 0.5 percent. The upper saturated zone was encountered in a silty zone at a depth of 8.5 to 10 feet below ground surface (bgs). The entire site is underlain by a laterally extensive aquitard at 10 to 13 feet bgs. The clay unit appears to serve as an adequate aquitard to prevent migration of constituents through this layer. However, there is a process well on site which pierces the aquitard. No well construction logs for the process well are available so it is unclear whether this provides a potential pathway for contamination within the alluvial aquifer.

Aerial Photo: Hwy 65 South, Dumas, Desha County, Arkansas



## Waste and Volumes

The Star Starrett facility was listed as a conditionally exempt small quantity generator of hazardous waste from 1999-2009. In addition, they have operated under two National Pollutant Discharge Elimination System (NPDES) water permits since 1974. The SAR states that the plant had an onsite waste stabilization pond. This pond was closed in 1978. The pond area was remediated by removing contaminated soils, filling, and capping the area in 1985. The estimated volume removed from the site is unknown.

## **Health Considerations**

Subsurface soils and groundwater were investigated and determined to be impacted by chlorinated organic compounds and metals. Risk analysis performed by Arkansas Department of Environmental Quality- Hazardous Waste Division indicated that soil contaminant levels do not exceed an acceptable risk to the industrial outdoor worker. The maximum cancer risk from ingestion, dermal, or inhalation exposure to groundwater is 3.27E-02 and the maximum non-cancer risk is 7.62E+02. The primary drivers for groundwater risk are chromium, arsenic, PCE, and TCE. No formal risk assessment has been performed for the manufacturing building which is located on the property. However, air samples were collected in the building. The levels, while above detection limits for several volatile organic constituents, do not exceed the OSHA PELs. The site is served by the municipal water system. Based on results from the Limited Groundwater Assessment (LGWA) conducted in 2011, subsurface soil and groundwater contaminant levels exceed residential levels and therefore limit the site to industrial use only. A deed restriction has also been placed on the property to prohibit the use of groundwater from the shallow aquifer.

## **ADEQ Response Actions**

The City of Dumas, Arkansas approached ADEQ in February 2006 requesting a no further action (NFA) letter from the state in order to purchase this site for city development. No additional data was included with the request. In order to further facilitate the sale of the property the City of Dumas and Leer Limited Partnership conducted a Phase II ESA. At that time Leer Limited Partnership began the processes to enter the voluntary clean up program. During negotiations a Site Assessment Report (SAR) and a supplement to the SAR were generated (2007). However, Leer Limited Partnership, as the parent company for Star Starrett Manufacturing, Inc. failed to sign the implementing agreement. Currently there is no agreement in place to compel action by the city or Principal Responsible Party (PRP). Leer Limited Partnership has notified ADEQ that they terminated services at this facility on January 1, 2009. They have submitted a notice of termination in order to close the water Permit. A limited groundwater assessment (LGWA) was completed in March 2011 for ADEQ. A remedial action decision document (RADD) was public noticed and then finalized December 3, 2012. The RADD required a deed restriction be placed on the property to prevent use of the shallow aquifer, restrict site to industrial use only, and require testing of the production well prior to use.

## **ADEQ Anticipated Future Activities**

The Site was removed from the State Priority List on September 28, 2018.

## **Site Contacts**

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