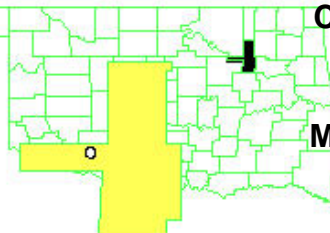


# SAND SPRINGS PETROCHEMICAL COMPLEX (TULSA COUNTY) OKLAHOMA

**EPA REGION 6**  
**CONGRESSIONAL DISTRICT 01**



**Contacts:**  
**Michael A. Hebert 214-665-8315**

**EPA ID# OKD980748446**  
**Site ID: 0601357**

**Updated: May 2009**

## **Current Status**

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During routine O&M in June 2001, seeps of black sludge were observed near the former acid sludge disposal pit along the bank of the Arkansas River. An investigation of the seeps was conducted in June 2002 by ARCO, with EPA performing oversight. Several seeps were observed at the site; some seeps appeared to have flowed to the surface, while others were exposed as layers of contamination along the cut bank. Test pits excavated near the former sludge pit encountered significant sludge and contaminated soil at depths to approximately 14 feet below ground surface. ARCO estimates an additional 5,000 cu. yds of such material may be present. There is also some concern with the stability of the riverbank in this area. The shoreline is being eroded along this portion of the river, as significant erosional features were observed. In November 2002, ARCO submitted an assessment report and analytical results for the test pit investigation, along with a recommendation for cleanup. In August 2004, EPA and ARCO signed an agreement requiring ARCO to initiate removal activities for contaminated soils along the Arkansas River. Removal activities were initiated in October 2004 and were completed in January 2006. ARCO submitted a report to EPA on March 28, 2006, which documents all of the removal activities. EPA approved this report on April 27, 2006.

A second Five Year review evaluation regarding the protectiveness of the remedy was completed in September 2005. The remedy was found to be protective of human health and the environment.

## **Benefits**

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The cleanup at the Sand Springs Petrochemical Complex mitigated environmental risks from 208,000 cubic yards of contaminated soils, sludge, concrete and debris by placing it in a RCRA Title C on-site landfill, and made several miles of the Arkansas River safer for recreation uses.

The site is suitable for certain types of redevelopment.

## **National Priorities Listing (NPL) History**

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<p>NPL LISTING HISTORY Site HRS Score: 28.86 Proposed Date: 9/08/83 Final Date: 6/10/86 NPL Update: No. 1</p>
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## Site Description

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- Location:** The site is at the location of the Old Sinclair Refinery in Sand Springs, west of Tulsa, Tulsa County, Oklahoma, adjacent to the Arkansas River.
- Population:** The population of the greater Tulsa metropolitan area is 376,000; the population of Sand Springs is approximately 15,000.
- Setting:** Nearest residence is within 1/2 mile.  
Drinking water wells in use are within 1/2-mile of site, although upgradient.  
The site encompasses approximately 200 acres and includes 2 unlined acid sludge pits (about 10 feet deep), and an abandoned solvents and waste oil recycling facility.
- Photos:** [March 2005](#)
- Geology:** The Sand Springs Superfund site is underlain by approximately 30 feet of sand, which is underlain by shale.  
Shale thickness appears to exceed 100 feet.  
An alluvial aquifer beneath the site appears to flow toward the Arkansas River.

## Contacts

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| <b>State Contact:</b>                  | Dennis Datin, 405.271-7097, ODEQ                                      |
| <b>Community Involvement (EPA):</b>    | Michael A. Hebert, 214.665.8315, Mail Sta. 6SF-RL                     |
| <b>Attorney (EPA):</b>                 | Mark Peycke, 214.665.2135, Mail Sta. 6RC-S                            |
| <b>EPA Public Liaison</b>              | Donn .R. Walters, 214-665-6483, 1-800-533-3508                        |
| <b>State Coordinator (EPA):</b>        | Kathy Gibson, 214.665.7196, Mail Sta. 6SF-AO                          |
| <b>Prime Contractor:</b>               | RI/FS - John Mathes & Assoc.<br>RD/RA - Morrison-Knudsen (PRP - ARCO) |