

## LEAKING UNDERGROUND STORAGE TANKS (LUST) PROJECTS

### Funded By The

### AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009

1. Former “Godsey’s Exxon”, 900 W. Keiser Ave., Osceola –

A gasoline release was reported at this retail fueling facility in June 1992. The release resulted in extensive soil contamination and vapor intrusion into an adjacent shopping center. The underground storage tank owner conducted an assessment and remediation of the identified contamination over a period of several years, but was financially unable to complete the cleanup. The responsible tank owner filed for bankruptcy in 2001, and ADEQ took over remediation of the site under state-lead contract. When ARRA funds became available in 2009, this project was the first to be scheduled for work. Approximately 3,600 cubic yards of petroleum contaminated soils have been removed and disposed of, and long-term remediation systems have been installed. Post-remediation monitoring, completed on November 16, 2011, indicated attainment of all remediation goals. A cost estimate to decommission the salvageable equipment and plug monitoring wells is due by December 27, 2011. Total ARRA expenditures as of November 30, 2011: \$879,678.26.

2. Former “Bobby’s BP”, 215 East Ninth St., Rector –

Gasoline and diesel contaminated soil and groundwater was discovered at this former petroleum retail and bulk storage facility in January 2006 following closure of the underground storage tank system. The responsible storage tank owner had abandoned the site some years earlier prior to filing bankruptcy. The potential threat to human health and the environment could not be determined until a site assessment was conducted to establish the level and extent of contamination. Utilizing ARRA funding, ADEQ’s state-lead contractor performed the site assessment work and submitted the final report to ADEQ in December 2010. Following a comprehensive investigation of a petroleum release at the referenced site, the ADEQ, Regulated Storage Tanks Division has determined that contamination at the site does not pose an identifiable threat to human health or the environment. However, the investigation has identified free product in need of removal. SoCo submitted a Free Product Removal WP on 07/01/11. Work plan approval is pending based on additional funding. Total ARRA expenditures as of November 30, 2011: \$130,429.60.

## **ARRA LUST PROJECTS – cont’d.**

### **3. Former “Fuel Stop”, 301 Balearic Road, Hot Springs Village –**

Petroleum product was discovered in a groundwater monitoring well at this facility in March 2000 by an RST Division inspector during a routine compliance inspection. The responsible tank owner was required to conduct a site assessment and perform free product recovery. Only a limited amount of the necessary site work was completed by the tank owner before he refused to proceed with the required environmental investigation and cleanup. ADEQ took over environmental activities at the site under state-lead in 2009. A site assessment and an exposure assessment have been performed using ARRA funds, and corrective action, in the form of free product recovery has been completed. The results indicate that the work plan goals have been met. A monitoring well decommissioning work plan was approved on November 17, 2011. A report is due December 19, 2011. Total ARRA expenditures as of November 30, 2011: \$120,699.00

### **4. Former “Carney’s 412 Auto/Truck Stop”, 3860 Hwy. 412 East, Siloam Springs –**

A gasoline release was discovered at this former retail fueling facility in March 2004 during construction work on an adjacent sewer line. The responsible tank owner proceeded with permanent closure of the UST system, including excavation and disposal of 144 tons of petroleum-contaminated soils. However, prior to performing the required assessment work, the responsible tank owner declared that he was financially unable to proceed, and ADEQ took over environmental activities at the site under state-lead in 2010. A site assessment workplan was received from the department’s state-lead contractor in November 2010 and approved in December 2010. Findings from the completed Site Assessment indicate there are no known human health or ecological receptors present at this site and there is no free product in need of recovery, at this time. Monitoring wells have been decommissioned and the site has been closed. Total ARRA expenditures as of November 30, 2011: \$53,121.00.

### **5. Former “White Oak Station #20”, 805 South Walton Blvd., Bentonville –**

A gasoline release was discovered at the former retail fueling facility in September 2002 during a voluntary underground storage tank system removal. Both petroleum-contaminated soils and groundwater were encountered. Approximately 9,360 gallons of water and free product were removed from the tank pit and disposed of over the course of the tank closure. Over the next several years, repeated efforts were made by ADEQ to obtain compliance with the site assessment requirements from the responsible tank owner. A final demand letter was issued in April 2010 by ADEQ to which the tank owner refused to respond. After this refusal to proceed, ADEQ established the site as a state-lead case. The department’s state-lead environmental contractor has prepared a site assessment work plan to determine the level and extent of contamination and the need for cleanup, if any. Efforts are on-going by the ADEQ Legal Division to secure an access agreement from the property owner. Total ARRA expenditures as of November 30, 2011: \$4,800.

## **ARRA LUST PROJECTS – cont’d.**

### **6. Former “Ozark Truck Plaza”, 206 Hwy. 71 North, Alma –**

In February 2001, a diesel release was reported to ADEQ during closure of the underground storage tank system at this truck stop. The free product was removed and disposed of, and the petroleum-contaminated soils were staged on site. A site assessment was required of the responsible tank owner; however, he filed bankruptcy and the site assessment was never performed. The site was established as a state-lead case in 2007, but a lack of state and federal funds caused the site to be placed in a holding pattern until ARRA funds became available. Utilizing those funds, ADEQ’s environmental contractor has been approved to conduct a site assessment to determine the level and extent of contamination both onsite and in the waste soil pile. Based on the results of the site assessment a work plan for Groundwater Assessment has been approved. The purpose for further assessment is to evaluate the presence of LNAPL in five monitoring wells and to define the free product plume at this site. Site Assessment and groundwater assessment have been completed. Additional Ground Water Assessment performed in August, 2011, to further evaluate residential hydrocarbons in the area. Total expenditures as of November 30, 2011: \$70,250.93.

### **7. Former Roadrunner #60, 357 North College, Fayetteville, –**

LUST Case #72-0009 originated in 1990 after episodes of gasoline product intrusion into basements of residences on Highland Avenue in Fayetteville. The source of the gasoline was determined to be the former Road Runner #60. A corrective action program (primarily involving application of “pump-and-treat” technology) was implemented in 1992. The case was closed in 1998, after the impacted residences had been demolished and groundwater quality goals appeared to have been met. In September 2006, free product was reported in the basement of a nearby church, down gradient from the former Road Runner #60 LUST site and the former impacted residences. In January 2007, product was also encountered in a utility excavation located on Highland Avenue. It was evident that the fuel remaining in the neighborhood was left behind at the conclusion of remedial efforts associated with LUST Case #72-0009 ten years earlier. The case was therefore reopened in February 2007, and additional assessment and free product recovery was conducted. An additional round of assessment activity will be required in order to ensure full delineation of free product and groundwater contamination within a complex karst bedrock environment. Corrective action is now being directly managed by RST as a “state-lead” LUST case. A plan for the additional assessment work has been approved and is currently in process. Site access by the current owner/operator has been denied, but work on off-site property continues with the completion of new monitoring wells and slug testing. A work plan for 6 MDPE events and 2 quarters of testing is under review. Total ARRA expenditures as of November 30, 2011: \$133,824.07.

### **8. Former TPI #4038, 2315 East Broad St., Texarkana –**

In October, 2000, a release was reported to ADEQ. Cleanup was initiated in August, 2002. Site assessment was completed in October, 2007. A Corrective Action Plan was approved by the RST Division on 02/13/2008. Public notification was published on 02/23/2008. Approved remediation activities consisted of the excavation and disposal of 4507 tons of contaminated soil and 55,200 gallons of contaminated water. Implementation of the corrective action was reported on 05/30/2008. Remediation goals have been established in groundwater for the protection of a

## **ARRA LUST PROJECTS – cont’d.**

surface water body. Goal attainment will be demonstrated through quarterly groundwater sampling and laboratory analyses. Remediation goals were not achieved during the first three quarters of monitoring. State-lead action was authorized on 12/29/2010.

On 04/04/2011, the RST Division authorized its contractor to conduct five quarters of groundwater monitoring to verify attainment of corrective action goals. The first two monitoring events will be funded through the ARRA at an estimated total cost of \$14,276. Total ARRA expenditures as of November 30, 2011: \$14,227.00

### 9. Road Runner #46, 3300 North Washington, Forrest City –

Diesel release, first reported in 1990, no known human health or environmental impacts (free product only). Case went state-lead in early 2011, following DEQ agreement with Valero Energy (MRP Properties). On 6/2/11, RST engaged State contractor Terracon to complete a work plan and cost estimate for free product removal. Terracon’s plan preparation cost was approved in amount of \$4,650.00. Massive excavation and disposal of contaminated soils will probably be proposed. Work plan and cost estimate for Free Product Removal has been received and revisions have been requested. Revised Free Product Recovery Work Plan received from Terracon on 11/15/11 is under review. Total ARRA expenditures as of November 30, 2011: \$4,650.00

### 10. Former TPI #4012, 5727 Kelly Highway, Fort Smith 72901

A release of refined petroleum was reported to the department on 07/08/2002 following a Phase II assessment for property transfer. The environmental investigation was protracted by delayed cooperation from the responsible party and by difficulty in obtaining off-site property access. Ultimately, the environmental investigation was completed on 01/14/2009, and on 05/01/2009 the department completed its Exposure Assessment finding that no sensitive receptors were impacted nor threatened by the release and also finding that free product, confined to the facility boundaries, was in need of recovery.

The responsible party failed to cooperate with the department’s request for development of a work plan to remove free product. The LUST case was subsequently declared “State lead”. On 02/28/2011, the department commissioned its on-call contractor to develop a Free Product Removal Work Plan. Free Product Removal Work Plan has been prepared and access agreements have been obtained. Total ARRA expenditures as of November 30, 2011: \$12,780.00

### 11. Former Haywood’s Conoco, 115 E. Main, Piggott, AR 72454

Gasoline release, first reported in 2000, no known human health or environmental impacts (free product only). Case went state-lead in 2001, after Responsible Party was unable to proceed. On 5/31/11, RST requested its on-call contractor to complete a work plan and cost estimate for free product removal. Southern Company’s plan preparation cost was approved in amount of

## **ARRA LUST PROJECTS – cont’d.**

\$24,100.00. Work plan approved for surfactant enhanced remediation, field work has been completed, report from Southern Company was received on 11/2/11. After review, RST determined that no further action will be required and requested preparation of a site closure work plan. Plan was submitted on 11/9/11 with an estimated cost of \$21,720.00. Plan was approved by RST on 11/28/11. A site closure report is to be submitted by 1/13/12. Total ARRA expenditures as of November 30, 2011: \$154,527.16

### 12. Former Board Camp Grocery, Hwy 8, Board Camp, AR

A release was discovered during an investigation of a complaint of hydrocarbon contamination in a domestic water well on October 20, 1998. During several site investigations performed by URS, the state contractor, a total of 29 groundwater monitoring wells were installed at the site. URS sampled domestic water wells at Board Camp. Gasoline constituents were detected in four wells above EPA drinking water MCL or advisory range. Alternative domestic water supply systems were installed for residents of the impacted domestic water wells. Mobile Dual Phase Recovery events were conducted at selected wells during the period 04/20/00 through 03/27/01. Two excavations were completed during September/October 2001. Petroleum hydrocarbons were detected at the former Board Camp Grocery site tank hold. The four residences with impacted domestic water wells were connected to an extension of the City of Mena municipal water supply in December 2003/January 2004. A sampling and gauging event was performed at the site in May, 2009. Three monitoring wells had measurable free product. Benzene was detected in 6 of 16 monitoring wells. URS conducted an ecological assessment of the stream at Board Camp (Mack’s Creek) on March 10, 2011, there were no ecological impacts to the stream due to the release.

Using ARRA funds a Mobile Dual Phase (MDPE)/Surfactant Injection (SI) event was conducted at the site between August 8 and August 19, 2011. Approximately 115 gallons of equivalent hydrocarbons were removed during the MDPE event. Before the event LNAPL was measured in 9 of 28 monitoring wells, following the event LNAPL was measured in 6 of 28 monitoring wells. It is anticipated that one or more additional MDPE/SI events will be authorized by ADEQ to fully remove all LNAPL from the monitoring wells. Total ARRA expenditures as of November 30, 2011: \$93,012.98