KIST Peanut (Okmulgee)

(September 9, 2016)

Location: The site is located in township and range T13N, R13E, NW ¼, NW ¼, SE ¼, in the central part of Okmulgee County in east-central Oklahoma. The site coordinates are 35° 37' 52.13" north latitude and 95° 57' 58.49" west longitude.

Background: The site covers approximately 32 acres. The former KIST Peanut site was used as a petroleum refinery from approximately 1909 to 1950 and was later used as a peanut processing facility. The property is currently vacant, but will be used as commercial/industrial in the future. Site characterization is complete at the site. Groundwater, soil, sediment, and surface water were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), RCRA metals, and total petroleum hydrocarbons (TPH). Remediation and a risk assessment are planned for the site.

Air: There are no known air quality issues at the site.

Soil: The site is underlain by the Dennis silt loam and the Verdigris silt loam soils. TPH was found above screening levels in soil in several areas. Benzo(a)pyrene, arsenic, and lead were also found above screening level in areas. Soil exceedances are confined to the site property, the adjacent alley right-of-way to the west, and the railroad right-of-way to the east.

Surface Water: Okmulgee Creek flows through the site. Total petroleum hydrocarbons (TPH) was at 6.31 milligrams per liter (mg/L) in the northwest corner of the property.

Groundwater: Consolidated rocks are sandstones and shales of Pennsylvanian age. Bedrock is overlain by unconsolidated Quaternary terrace and alluvium sediments. The Deep Fork Formation underlies the site.

Groundwater flows from the eastern and western site boundaries toward Okmulgee Creek. Groundwater depth ranges from 11.00 feet to 22.05 feet from top of casing. With the exception of arsenic, groundwater screening level exceedances have been delineated.

Private/Public Wells: No private or public wells are affected.

Vapor intrusion to Indoor Air: There are no vapor intrusion issues.

Key Questions:

- **Have all known groundwater contaminant plumes been adequately evaluated and delineated?** Yes

- **Has the site been sampled for an adequate list of analytes?** Yes

- **Does soil or waste need to be cleaned up:** Yes

- **Has the surface water been sampled?** Yes

- **Has soil at the site been cleaned up to levels protective of groundwater?** No. Soil remediation has not taken place yet.