

REMEDIATION OF FREE PRODUCT AT A FORMER RETAIL SERVICE STATION

William Lundy*

DeepEarth Technologies, Inc.

12635 South Kroll Drive

Alsip, IL 60803

Voice: 708-396-0100

Fax: 708-396-0111

wlundy@cool-ox.com

Free phase LNAPL was detected in two (2) monitoring wells at a former retail service station at a location in the Southeastern U. S. The LNAPL, composed of gasoline and diesel range organics, was detected in one monitoring well at a level of (0.51 feet) and in a second well at (0.58 feet). Because of previous successful applications including two pipeline sites (NFA closure at a natural gas condensate release and a large benzene release at a site now meeting closure criteria), DeepEarth Technologies, Inc., was selected to apply its patented Cool-Ox™ ISCO technology. The application activities at the site were focused on the mitigation of measurable free phase product and were conducted in two events approximately three months apart. Bi-weekly gauge and bail events were conducted at the site during the interim between the two applications and for a period following the second phase of the application. The first quarterly groundwater monitoring event subsequent to the completion of the remedy, revealed no measurable LNAPL in any of the on-site or off-site sentinel wells. Based upon the destruction of LNAPL mass measured in wells in the treatment area as well as significantly decreasing benzene concentrations in the groundwater, it was concluded that the Cool-Ox™ applications were successful in mitigating the LNAPL source. The site has been placed in monitored natural attenuation program pending its meeting closure criteria.

###