



CORE LABORATORIES

201 Deerwood Glen Dr
Deer Park, TX 77536
281-478-1300

Shaw Environmental-Denver
Pamela Moss
7604 Technology Way
Denver, CO 80237-3000

Report Number : 57801-111877
Date Reported: 6/27/11
Date Received: 6/20/11

Analytical Report

Sample No.: 111877-001 Sample ID 0676-LNAPL-GEO1 Date Sampled 6/15/11 2:30:00 PM
KAFB10676

Test	Result	Units	Method	Date	Analyst
API Gravity by Hydrometer	44.7	60/60 Deg F	ASTM D-287	6/21/11	KF
Detailed Hydrocarbon Analysis					
Capillary Gas Chromatography	See Attached		ASTM D-6729	6/24/11	CC
Flash Point, PMCC	94	Deg F	ASTM D-93A	6/21/11	MKM
Detailed Hydrocarbon Analysis					
1,2-dibromoethane	<5	ppm	GCMS	6/24/11	CC
1,2-Dichloroethane	<5	ppm			
Interfacial Tension	31.2	mN/m	ASTM D-971	6/22/11	KTN
Kinematic Viscosity	1.84	cSt @ 20 C	ASTM D-445	6/22/11	AS
Lead in Gasoline	<0.01	g/gal	ASTM D-3237	6/27/11	CB
Oxygenates in Gasoline					
Methanol	<0.10	WT %	ASTM D-5599	6/21/11	JAT
Ethanol	<0.10	WT %			
Isopropyl Alcohol	<0.10	WT %			
tert-Butyl Alcohol	<0.10	WT %			
N-Propanol	<0.10	WT %			
Methyl tertiary butyl ether	<0.10	WT %			
sec-Butanol	<0.10	WT %			
Diisopropyl ether	<0.10	WT %			
Isobutanol	<0.10	WT %			
Ethyl tertiary butyl ether	<0.10	WT %			
ter-Amyl Alcohol	<0.10	WT %			
N-Butanol	<0.10	WT %			
ter Amyl methyl ether	<0.10	WT %			
Oxygen Content	<0.02	WT %			

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgement of Core Laboratories. Core Laboratories, however, makes no warrant or representation express or implied, of any type, and expressly disclaims same as to the productivity, proper operation or profitability of any oil, gas, or other mineral property, well or sand in conjunction with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the approval of Core Laboratories.



CORE LABORATORIES

201 Deerwood Glen Dr
Deer Park, TX 77536
281-478-1300

Shaw Environmental-Denver
Pamela Moss
7604 Technology Way
Denver, CO 80237-3000

Report Number : 57801-111877
Date Reported: 6/27/11
Date Received: 6/20/11

Analytical Report

Sample No.: 111877-001 Sample ID 0676-LNAPL-GEO1 Date Sampled 6/15/11 2:30:00 PM
KAFB10676

Test	Result	Units	Method	Date	Analyst
Surface Tension	32.6	mN/m	ASTM D-1331A	6/22/11	KTN

Approved By: _____

M. Jean Waits