

WELD LABORATORIES, INC.

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January 9, 2017

Smith Energy Corporation
12706 Shiloh Rd.
Greeley, CO 80631

Laboratory No.: E16363-3A
Sample: Long Knife 41-31

Project: Soil Saturated Paste
Location: #1

Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH	NA	mg/kg -dry wt.	NA
TEH (DRO)	NA	mg/kg -dry wt.	NA
TVH (GRO)	NA	mg/kg -dry wt.	NA
Benzene	NA	µg/kg -dry wt.	NA
Toluene	NA	µg/kg -dry wt.	NA
Ethyl-benzene	NA	µg/kg -dry wt.	NA
m,p-Xylene	NA	µg/kg -dry wt.	NA
o-Xylene	NA	µg/kg -dry wt.	NA
Sat. Paste pH	7.1	SI	NA
Sat. Paste EC	2810	µS/cm	NA
Sat. Paste Saturation%	27.0	%	NA
Sat. Paste TDS	1798	mg/L	NA
Sat. Paste SAR	6.9	--	NA

Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA Method 1664, Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed



Project Manager

1-9-17

Date