



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 08, 2016

MIKE STUBBLEFIELD

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ASAU 149 TRUNK LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/04/16 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 MIKE STUBBLEFIELD
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	11/04/2016	Sampling Date:	11/02/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	ASAU 149 TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	30.015.00204	Sample Received By:	Jodi Henson
Project Location:	UTO SEC. 14-T18S-R26E		

Sample ID: S-12 B-15' S. DCP P/L (H602501-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: S-13 EAST WALL 11' BGS (H602501-02)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324	
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505	
Total BTEX	<0.300	0.300	11/07/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/07/2016	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233	
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433	

Surrogate: 1-Chlorooctane 99.7 % 35-147

Surrogate: 1-Chlorooctadecane 83.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 MIKE STUBBLEFIELD
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 11/04/2016
 Reported: 11/08/2016
 Project Name: ASAU 149 TRUNK LINE RELEASE
 Project Number: 30.015.00204
 Project Location: UTO SEC. 14-T18S-R26E

 Sampling Date: 11/02/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-14 B. 14' N DCP P/L (H602501-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: S-15 B. 14' N. DCP P/L (H602501-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: S-16 B 15' N. DCP P/L (H602501-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	11/07/2016	ND	400	100	400	0.00		

Sample ID: S-17 NORTH WALL (H602501-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/07/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name:	A.T. Hicks Consultants	P.O. #:	
Project Manager:	Mike Stubblefield	Company:	Lime Rock Res.
Address:	2411 S. 13th Street	Attn:	Mr. Barrett
City:	Altecia	State:	NM
Phone #:	505-365-0324	Fax #:	
Project #:		City:	
Project Name:	ASHAD 149 Trunk line release	State:	
Project Location:	UT O sec. 14, T18S, R21E	Phone #:	
Sample Name:	Mike Stubblefield	Fax #:	

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H002501

5-12 B-15' S. deep *

(G)RAB OR (C)OMP.	
# CONTAINERS	
GROUNDWATER	
WASTEWATER	
SOIL	
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	
OTHER :	

DATE TIME

Total Chlorides
BTEX 80208
TPH 8015M

1	5-12 B-15' S. deep *	11/2/16	2:04P	
2	5-13 EAST N41-11' bys	11/2/16	2:10P	
3	5-14 B-14' N deep	11/2/16	2:16P	
4	5-15 B-14' N deep	11/2/16	2:20P	
5	5-16 B-15' N deep	11/2/16	2:24P	
6	5-17 North Wall	11/2/16	4:22P	

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Relinquished By:

Date: 11/1/16

Received By:

Mike Stubblefield

Relinquished By: ~~Mike Stubblefield~~

Date: 11/1/16

Received By:

Mike Stubblefield

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

2.6°C

Sample Condition	
Cool	☒ Yes ☐ No
Intact	☒ Yes ☐ No

CHECKED BY:

(Initials)

Vol # 75

Phone Result:	☐ Yes ☐ No	Add'l Phone #:	
Fax Result:	☐ Yes ☐ No	Add'l Fax #:	

in plastic baggie. Jar broken on 11/14/16

Rust