### Lee Federal #94

### **WORK PLAN**

API No. 30-015-43365

NMOCD Case #: 2R-3378

Release Date: N/A

Unit Letter M, Section 17, Township 17 South, Range 31 East

### April 25, 2016

#### Prepared by:

Michael Burton, Environmental Operations Director
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394

Fax: (575)393-8396

Mike Bratcher Environmental Specialist NM Oil Conservation District – Division 2 811 S. First St. Artesia, NM 88210

RE: Apache Corporation – Lee Federal #94 – Remediation Work Plan

UL/M, Section 17, T17S, R31E API No. 30-015-43365 NMOCD Case #: 2R-3378

Mr. Bratcher,

Apache Corporation (Apache) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Loco Hills, NM, in Lea County. The spill site resulted from drilling activities and affected the southwest area of the pad and pasture southsouthwest of the pad. An unknown amount was released with none recovered. An initial C-141 was submitted to the NMOCD on November 6, 2015 and approved on November 10, 2015 (Appendix I).

#### **Site Assessment**

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there is no known groundwater below this site (Appendix II).

Beginning November 30, 2015, DFSI personnel were on site to obtain samples within and the leak area (Figure 1). Four verticals were installed, resulting in decreasing chloride concentrations with depth (Appendix III). All clean field samples under NMOCD and BLM regulatory guidelines were submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix IV).

To further delineate the site, DFSI personnel were on site December 3 and December 4, 2015 to obtain additional soil samples within the leak area. Two verticals were installed, resulting in low chloride and TPH concentrations. All clean field samples under NMOCD and BLM regulatory guidelines were submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation.

Due to inclement weather, DFSI personnel were on site April 4, 2016, to re-evaluate the chloride concentrations within the vadose zone. Three verticals were installed within the pad area of the release and three sample points were collected to various depths within the pasture area of the release. Constituent concentrations within the pad area decreased to below regulatory limits at the surface or 1'. Within the pastured area, concentrations within the vegetation zone were below NMOCD and BLM regulatory limits. All clean field samples under NMOCD and BLM regulatory guidelines were submitted for laboratory analysis at Hall Environmental of Albuquerque, NM to obtain confirmation.

#### Conclusion

After careful review DFSI on behalf of Apache would like to propose the following:

Due to the safety concerns within the release area, the pad will be scraped 6" and backfilled with caliche from interim reclamation to ground surface and contoured to the surrounding area. Due to the chloride constituents being within regulatory limits for regrowth and vegetation of the site, the pasture area affected by the release will be tilled and seeded with a BLM and NMOCD approved mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Michael Burton

Michael Burton

Environmental Operations Director | Diversified Field Service, Inc.

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Mobile: (575)390-5454

Fax: (575)964-8396 | Email: Mburton@diversifiedfsi.com

cc Shelly Tucker

Figure: Soil Delineation

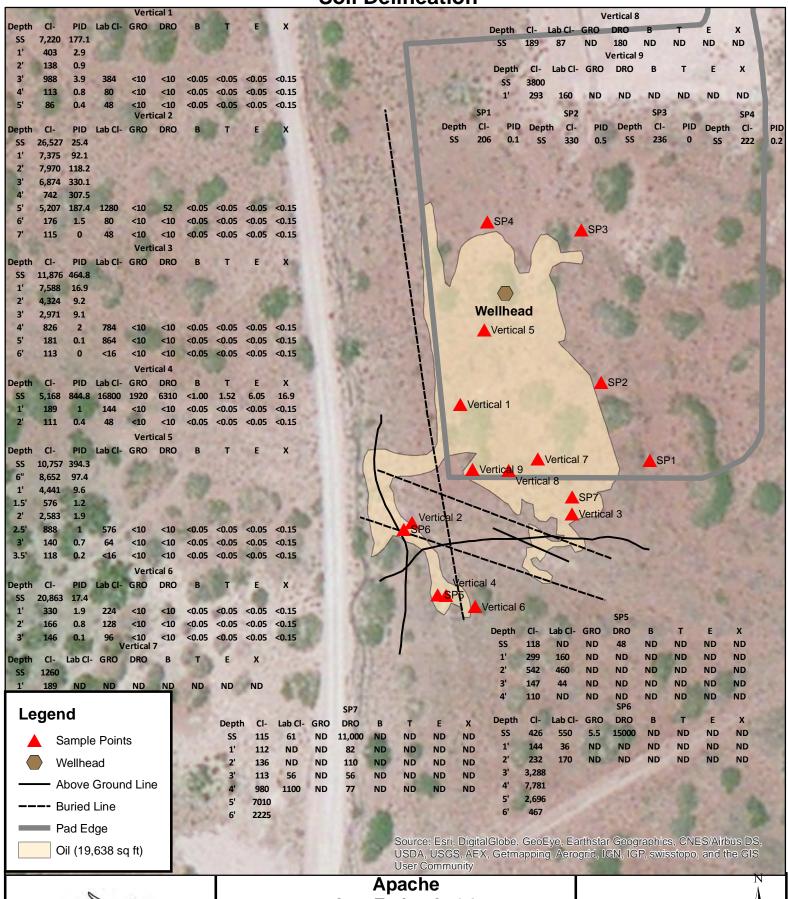
Appendices: Initial Form C-141

Groundwater Study

Site Photos

Laboratory Analyses

**Soil Delineation** 





Lee Federal #94
Unit Letter M, Sec. 17, T17S, R31E
Eddy County, NM
NMOCD Case #: 2R-3378

Mapped: 04/04/2016 CF
Drafted: L. Flores

012.525 50 75 100

Feet

# Appendix I

INITIAL C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conscrvation Division 1220 South St. Francis Dr. Santa Fc, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19,15.29 NMAC.

			Rele	ease Notific	ation	and Co	rrective A	ction	l			
_NAB15				010		<b>OPERA</b>			✓ Initia	l Report		Final Report
Name of Co Address: 23				<u>8'13</u>	~	Contact Bru		กดา				
Facility Nar			10008, 191	VI 86240			lo. (432) 631-6 e: Oil Well	962				
Surface Ow	ner Federa			Mineral O		, , , , , , , , , , , , , , , , , , ,			I API No	. 30-015-43	365	
		<u> </u>				OF REI	FASE		1 773 1 1 10	7.00 015 12	200	
Unit Letter M	Section 17	Township 17S	Range 31E	Feet from the 105'		South Line	Feet from the 850'	East/\ FWL	West Line	County Eddy		
	•					_	W103.897168					
Type of Rele	ase: Oil an	d produced w	ater	NAT	URE	OF RELI	Release Unknow	1/T)	Volume E	Recovered 0		
Source of Re			nici				our of Occurrence			Hour of Disc		
Was Immedia	ate Notice (		Yes [	No Not Re	quired	If YES, To	Whom? her (NMOCD) S	helly Tu	icker (BLM	) via email		
By Whom?							our 10/30/2015		ı.m. <i>Q-</i>	mail 8	044	en)
Was a Water	course Read	hed?	Yes ⊠	No		If YES, Vo	lume Impacting t	he Wate	ercoursc.		•	
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k		<u> </u>						ERVATION
		•								ARTI	ESIA DI	STRICT
										NO	V 0 6	2015
Describe Cau The release w				n Taken.* s but the cause and	d source	of the releas	e is unknown.			R	ECEI	VED
Describe Arc The release a				en.* d and the pasture:	south an	nd southwest	of the pad. The a	rea was	mapped an	d field samp	les were	: collected.
regulations al public health should their o	Il operators or the envir operations h nment. In a	are required to the following the failed to the thick the failed to the thick the failed to the fail	o report at acceptant accuately CD accep	is true and completed of the certain rose of a C-141 reportance of	clease no rt by the emediate	otifications are NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thre	tive act eport" c eat to gi	ions for rele loes not reli round water	eases which to eve the oper surface was	may end ator of l ter, hum	langer liability nan health
							OIL CON	SERV	ATION	DIVISIO	N	
Signature:	Bruc	e Bah	٧						1/			
Printed Name	e: Bruce Ba	ker			/	Approved by	Environmental S <sub>l</sub>	pecialis		5/0	_	
Title: Enviro	nmental Te	chnician		····	/	Approval Dat	e:     0   <sup>©</sup>	<u> </u>	Expiration 1	Date: N/F	<u>}                                    </u>	
E-mail Addre	ess: larry.ba	ker@apache	corp.com		(	Conditions of	Approval: tion per O.C.	D. Ru	les & Gu	definer		
Date: 11/6/2				(432) 631-6982		SUBMIT	REMEDIALIC	N PR	OPOSA	NO		
' Attach Addit	tional Shee	ets If Necess	ary			LATER T	HAN:	1 <u>Z.11.</u>	2	2	RP.	3378

# Appendix II

**GROUNDWATER STUDY** 



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

**PLSS Search:** 

**Section(s):** 7, 8, 9, 16, 17, **Township:** 17S **Range:** 31E

18, 19, 20, 21

# Appendix III

**SITE PHOTOS** 

## Apache Lee Federal #94

### **PHOTO PAGE**



Site prior, facing southeast

11/30/2015





Site prior, facing northeast





Site prior, facing northwest

11/30/2015



Site prior, facing southwest

11/30/2015



Installing vertical, facing northeast 11/30/2015



Collecting sample, facing north



Collecting sample, facing northwest

4/4/2016



Installing vertical, facing northeast

4/4/2016



Collecting sample by auger, facing north



Collecting sample by auger, facing south

4/4/2016

4/4/2016

# Appendix IV

### **LABORATORY ANALYSES**



December 09, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL #94

Enclosed are the results of analyses for samples received by the laboratory on 12/02/15 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab-accred-certif.html">www.tceq.texas.gov/field/ga/lab-accred-certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 1 @ 3' (H503155-01)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	< 0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	< 0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/04/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	97.7	% 35-147							
Surrogate: 1-Chlorooctadecane	109 9	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 1 @ 4' (H503155-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	96.75	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 1 @ 5' (H503155-03)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	< 0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	< 0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	98.0 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

#### Sample ID: VERTICAL 2 @ 5' (H503155-04)

NOT GIVEN

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	52.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	106 %	6 35-147							
Surrogate: 1-Chlorooctadecane	121 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 2 @ 6' (H503155-05)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	< 0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	< 0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	97.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	107 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 2 @ 7' (H503155-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	< 0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	< 0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	92.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

· ·

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 3 @ 4' (H503155-07)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	< 0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	< 0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	98.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	109 9	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 3 @ 5' (H503155-08)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	96.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 11/30/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Judy Garcia

Project Location: **NOT GIVEN** 

#### Sample ID: VERTICAL 3 @ 6' (H503155-09)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	89.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.5	% 28-171							

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 12/02/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name:LEE FEDERAL #94Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Judy GarciaProject Location:NOT GIVEN

#### Sample ID: VERTICAL 4 @ SURFACE (H503155-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	1.52	1.00	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	6.05	1.00	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	16.9	3.00	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	24.4	6.00	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1920	200	12/03/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	6310	200	12/03/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	143	% 35-147	,						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane

191 %

28-171



APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/02/2015 Sampling Date: 12/01/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Judy Garcia

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 4 @ 1' (H503155-11)

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	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/04/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	94.6	% 35-147	7						
	1061	20.17							

106 % 28-171 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

· ·

mg/kg

Received: 12/02/2015 Sampling Date: 12/01/2015

Reported: 12/09/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Analyzed By: MS

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 4 @ 2' (H503155-12)

BTEX 8021B

	91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2015	ND	1.71	85.3	2.00	1.84	
Toluene*	<0.050	0.050	12/04/2015	ND	1.70	85.0	2.00	0.957	
Ethylbenzene*	<0.050	0.050	12/04/2015	ND	1.76	87.8	2.00	0.833	
Total Xylenes*	<0.150	0.150	12/04/2015	ND	5.35	89.2	6.00	1.46	
Total BTEX	<0.300	0.300	12/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-140	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2015	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2015	ND	184	91.9	200	4.54	
DRO >C10-C28	<10.0	10.0	12/04/2015	ND	178	89.0	200	5.51	
Surrogate: 1-Chlorooctane	100 %	6 35-147							
Surrogate: 1-Chlorooctadecane	110 %	6 28-171							

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **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.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	toache							L	3 <i>1L</i>	L TO					_	AN	ALY	SIS	RE	QUI	-51	_	_	_
Project Manager:	The state of the s					P.0	O. #:																	
Address:	Dime fire					Co	mpa	ny:																
City:	State: Zi	p:				At	tn:											- 1			1		1	
hone #:	Fax#:					Ad	dres	ss:																
Project #:	Project Owner:					Cit	y:																	
roject Name:	pache					Sta	ate:		- 1	Zip:														
	Thee Federal #94					Ph	one	#:																
Sampler Name:	Chris Flores					Fa	x #:		_			1												
FOR LAB USE ONLY				MAT	RIX	-	PRE	SEI	RV.	SAMPLI	NG													
Lab I.D.	Sample I.D.	Z Z	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	C Would	R TEX	F 20	±41									
1	Vertical 1 @ 3' C	7		V,	1	-		4	-	11-30-295	-	X	X	X		-	+			-	+			+
3	Dertical 1 @ 4'	1		. /	-	-		1		-	11:40 Hm	<b>\rightarrow</b>	X	V	+	+	+	-		1	+		1	-
2	Vertical 1 (0 5	21	1	1		+	-	1	-	1	1:50 pm	V	X	1	+	+	+			1				
4	dertical 2 8 5' G	2 1		J	+	+	-	1		1	2:00 Pm	X	X	X	+	+	+			1				
7	Dertical 2 (0 6' C	2 1		0	+	+		1		1	2:10 pm	X	Y	X						T				1
9	Jertical 2 @ 7 5	1		1/	+	+		V		/	3:00 pm	X	X	X										
8	Dertical 3 (8 5'	1	1	V	+	+		1			3110 pm	X	X	X										
4	Yevivan 300	2 1		1		+	1	V			3:20 pm	X	X	X										
10	United 4 05 here	7		1				V		12-2-2019	3:10 pm	Y	X	X										
nalyses. All claims including	Damages. Cardinal's liability and client's exclusive remedy for any or those for negligence and any other cause whatsoever shall be deet retinal be liable for incidental or consequental damages, including will	med ware thout limit	tation, bu	siness inte	erruption	s, loss	of use,	or los	s of pr		client, its subsidi		ble											
Relinquished By	Time: 6:40	Recei	ved I	d	7	1	ler				Phone Re Fax Resu REMARK	ilt:	O Y		□ No		d'I Pi	hone ax #:	#:					
Delivered By: Sampler - UPS	(Circle One)		1	-	Intact	es No		4	(mit	(ED BY: ials)	Larr	4.6	ak	ev	Co	par	che	CO	rp	Co	m			

#EL



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Company Name: Apache							BILL TO								_	_	74147	1-1	<del></del>	 200			T	
roject Manager: Bruce Baker							P.	0. #	#:															
ddress:							Co	omp	pany	<i>j</i> :														
	Zip	:					At	tn:																
hone #: Fax #:							A	ddr	ess										- 1					
roject #: Project Owner							Ci	ity:	y:										- 1		1			
No de la constante de la const							St	ate	:		Zip:					1			- 1		1			
roject Name: Hackle roject Location: Lee Federal #94							PI	hon	ne #															
ampler Name: Chyls Flores							Fa	ax#	ŧ:										- 1					
		Г		N	ATR	XIX		PF	RES	ERV	SAMPLI	NG	0				-							
Lab I.D. Sample I.D.  #503155  11. Jentical F.C.1  12 Vertical F.C.2		+ CONTAINERS	GROUNDWATER	WASTEWATER	Soll		OTHER:	ACID/BASE:	ACIONOS ACIONO	OTHER:	DATE 12-1-2015	TIME /0:30 AW (0:40 AW	LANGUAL XX	XX	X X X	-								
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for lalyses. All claims including those for negligence and any other cause whatsoever shall be rivice. In no event shall Cardinal be liable for incidental or consequental damages, includiniliates of successors arising out of or related to the performance of services hereunder by the linguished By:  Time:  Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	cardin	out lim	ived	By:	as interested as	Con	ditio	s of u	l upon	ru	d to the amount put within 30 days at profits incurred by the above stated r	client, its subsidiations or otherwise.  Phone Ri Fax Resu REMARK	raries, vise. esult: ult: (S:	□ Y	'es	□ No	Ac	id'i Pi	1X #:	CB	no	.(0)	m	

BILL TO



December 11, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL #94

Enclosed are the results of analyses for samples received by the laboratory on 12/04/15 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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

12/03/2015



#### **Analytical Results For:**

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date:

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 5 @ 2.5' (H503170-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	103 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	108 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date:

12/03/2015 Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 5 @ 3' (H503170-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	< 0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	< 0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date: 12/03/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name:LEE FEDERAL #94Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

#### Sample ID: VERTICAL 5 @ 3.5' (H503170-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.4	% 35-147							
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-243

Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 6 @ 1' (H503170-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	< 0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	< 0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	94.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 6 @ 2' (H503170-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.8 9	35-147	,						
Surrogate: 1-Chlorooctadecane	102 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: VERTICAL 6 @ 3' (H503170-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	96.8	% 35-147	,						
C 1 C	105 (	20.171							

105 % 28-171 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **Notes and Definitions**

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	mpany Name: Apache							BILL TO									ANA	LYS	IS I	REQ	UES	T		
Project Manager:	Bruce Baker						P	.0. #								Г		T		T				
Address:	Of the Control						C	omp	an	y:														
City:	State:	Zip	):				A	ttn:					1											
Phone #:	Fax #:						A	ddre	ess	:														
Project #:	Project Ow	ner:					c	ity:																
Project Name:	Dache						S	tate	:		Zip:													
Project Location:							P	hon	e #:															
Sampler Name:	hvis Flores		_				_	ax#	_				1											
FOR LAB USE ONLY		0.			MA	TRIX	-	PR	RES	ERV.	SAMPL	ING	1			1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	100	0 747									
1	Derlical 5 @ 2.5'		1	Ĭ	V		0,		V		12-3-2015	2:201m	X	X	V									
Ž	Vertical 5 @ 31	6	1		V				V		(	2:30 Pm	X	X	X									
3	Jertical 5 @ 3.5'	6	1		V				V			2:40 pm	X	X	X									
	Newtral 6 @ 1"	G	1		V			_	1		12-4-2015	8:40 mm	X	X	X				_	_				
5	Derhical 6 (2 2)	G	1		0			-	V		(	8150 pm	X	X	X	1	-	-	-	-	_	-	-	-
6	Vertical 6 @ 3"	6	1	$\sqcup$	V			$\perp$	y		1	9:00 Bm	X	7	X	+	+	+	+	+	-	-	-	
		-	1	$\vdash$	-	-	-	+	+	-					-	-	+	+	+	+	$\dashv$	$\rightarrow$	-	-
		-	╀	$\vdash$	+	+	-	+	+	H	-			-	-	+	-	+	+	+	-		+	_
		-	1		+	+	-	+	H	$\vdash$	-	-		-	-	+	-	-	-	-	-		-	
PLEASE NOTE: Liability and	Damages, Cardinal's liability and client's exclusive remed	y for any cla	ilm aris	sing whet	her base	ed in co	ntract or	fort, sh	all be	limited	to the amount pa	aid by the client for	or the			_	_	_	_	_				
	those for negligence and any other cause whatsoever sha dinal be liable for incidental or consequental damages, inc													ble										
Relinquished By:	out of or related to the performance of services hereunde  Date:	R		ved E		r such e	daim is t	saked u	pon a	ny of th	e above stated re	Phone Re		□ Y	es [	No	Add	'l Pho	ne #:					
Relinquished By	12.9-7019 Time: 10	5/	1	Out	U	- 5	A	e	N	Ol	M	Fax Resu REMARK		□ Y	es [	No.	Add	l'I Fax	#:					
Kelinquished by	Time:	_ 7	5	veu L	4.																			
Delivered By: Sampler - UPS	(Circle One) Bus - Other:	5.2	0	S	ampl ool Ye	e Cor Inta	rditio ct Yes No	п	CI	IEC III	(ED BY:	emai	1	0:	Lav	cul	bal	Lev (	Da	Dac	hei	Corc	, COV	N



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 14, 2016

Bruce Baker Diversified Field Services, Inc 315 S. Leech St Hobbs, NM 88240

TEL: (575) 964-8394

FAX

RE: Lee Federal OrderNo.: 1604324

#### Dear Bruce Baker:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 8:00:00 AM

 Lab ID:
 1604324-001
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>LGT</b>
Chloride	ND	30	mg/Kg	20	4/11/2016 9:51:19 PM	24742
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;			Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	48	9.4	mg/Kg	1	4/11/2016 10:30:08 AM	A 24695
Surr: DNOP	74.8	70-130	%Rec	1	4/11/2016 10:30:08 AN	A 24695
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/11/2016 11:08:12 AN	A 24697
Surr: BFB	101	80-120	%Rec	1	4/11/2016 11:08:12 AN	A 24697
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/11/2016 11:08:12 AN	A 24697
Toluene	ND	0.047	mg/Kg	1	4/11/2016 11:08:12 AN	A 24697
Ethylbenzene	ND	0.047	mg/Kg	1	4/11/2016 11:08:12 AN	A 24697
Xylenes, Total	ND	0.094	mg/Kg	1	4/11/2016 11:08:12 AN	A 24697
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	4/11/2016 11:08:12 AM	A 24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 8:10:00 AM

 Lab ID:
 1604324-002
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	160	30	mg/Kg	20	4/11/2016 10:16:08 PM	24742
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	3			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/8/2016 11:45:36 PM	24695
Surr: DNOP	89.9	70-130	%Rec	1	4/8/2016 11:45:36 PM	24695
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/11/2016 12:18:59 PM	24697
Surr: BFB	103	80-120	%Rec	1	4/11/2016 12:18:59 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 12:18:59 PM	24697
Toluene	ND	0.047	mg/Kg	1	4/11/2016 12:18:59 PM	24697
Ethylbenzene	ND	0.047	mg/Kg	1	4/11/2016 12:18:59 PM	24697
Xylenes, Total	ND	0.094	mg/Kg	1	4/11/2016 12:18:59 PM	24697
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	4/11/2016 12:18:59 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 8:20:00 AM

 Lab ID:
 1604324-003
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	460	30	mg/Kg	20	4/11/2016 11:05:46 PM	24742
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	}			Analys	:: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/9/2016 12:06:55 AM	24695
Surr: DNOP	89.7	70-130	%Rec	1	4/9/2016 12:06:55 AM	24695
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2016 12:42:29 PM	1 24697
Surr: BFB	104	80-120	%Rec	1	4/11/2016 12:42:29 PM	1 24697
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 12:42:29 PM	1 24697
Toluene	ND	0.049	mg/Kg	1	4/11/2016 12:42:29 PM	1 24697
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2016 12:42:29 PM	24697
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2016 12:42:29 PM	24697
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	4/11/2016 12:42:29 PM	1 24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 8:30:00 AM

 Lab ID:
 1604324-004
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	44	30	mg/Kg	20	4/11/2016 11:30:36 PM	24742
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	}			Analyst	:: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/9/2016 12:28:16 AM	24695
Surr: DNOP	88.8	70-130	%Rec	1	4/9/2016 12:28:16 AM	24695
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2016 1:05:55 PM	24697
Surr: BFB	106	80-120	%Rec	1	4/11/2016 1:05:55 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 1:05:55 PM	24697
Toluene	ND	0.049	mg/Kg	1	4/11/2016 1:05:55 PM	24697
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2016 1:05:55 PM	24697
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2016 1:05:55 PM	24697
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	4/11/2016 1:05:55 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

CLIENT: Diversified Field Services, Inc

Client Sample ID: Pt 6 @ Surface

 Project:
 Lee Federal
 Collection Date: 4/4/2016 9:00:00 AM

 Lab ID:
 1604324-005
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	550	30		mg/Kg	20	4/11/2016 11:55:25 PM	24742
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analyst	: KJH
Diesel Range Organics (DRO)	15000	9900		mg/Kg	1E	4/9/2016 12:49:35 AM	24695
Surr: DNOP	0	70-130	S	%Rec	1E	4/9/2016 12:49:35 AM	24695
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	5.5	4.7		mg/Kg	1	4/11/2016 1:29:18 PM	24697
Surr: BFB	116	80-120		%Rec	1	4/11/2016 1:29:18 PM	24697
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2016 1:29:18 PM	24697
Toluene	ND	0.047		mg/Kg	1	4/11/2016 1:29:18 PM	24697
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2016 1:29:18 PM	24697
Xylenes, Total	ND	0.094		mg/Kg	1	4/11/2016 1:29:18 PM	24697
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	4/11/2016 1:29:18 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

**CLIENT:** Diversified Field Services, Inc 
Client Sample ID: Pt 6 @ 1'

 Project:
 Lee Federal
 Collection Date: 4/4/2016 9:10:00 AM

 Lab ID:
 1604324-006
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	36	30	mg/Kg	20	4/12/2016 12:20:14 AM	M 24742
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analys	st: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/9/2016 1:10:56 AM	24695
Surr: DNOP	91.1	70-130	%Rec	1	4/9/2016 1:10:56 AM	24695
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/11/2016 2:16:22 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 2:16:22 PM	24697
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/11/2016 2:16:22 PM	24697
Toluene	ND	0.046	mg/Kg	1	4/11/2016 2:16:22 PM	24697
Ethylbenzene	ND	0.046	mg/Kg	1	4/11/2016 2:16:22 PM	24697
Xylenes, Total	ND	0.093	mg/Kg	1	4/11/2016 2:16:22 PM	24697
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	4/11/2016 2:16:22 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 9:20:00 AM

 Lab ID:
 1604324-007
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Chloride	170	30	mg/Kg	20	4/12/2016 12:45:03 AM	24742
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	}			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/9/2016 1:32:14 AM	24695
Surr: DNOP	88.6	70-130	%Rec	1	4/9/2016 1:32:14 AM	24695
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/11/2016 2:39:54 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 2:39:54 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	4/11/2016 2:39:54 PM	24697
Toluene	ND	0.046	mg/Kg	1	4/11/2016 2:39:54 PM	24697
Ethylbenzene	ND	0.046	mg/Kg	1	4/11/2016 2:39:54 PM	24697
Xylenes, Total	ND	0.093	mg/Kg	1	4/11/2016 2:39:54 PM	24697
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	4/11/2016 2:39:54 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 9:40:00 AM

 Lab ID:
 1604324-008
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Ç	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	61	30		mg/Kg	20	4/12/2016 1:34:42 AM	24742
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analyst	: KJH
Diesel Range Organics (DRO)	11000	970		mg/Kg	100	4/11/2016 11:34:39 AM	24695
Surr: DNOP	0	70-130	S	%Rec	100	4/11/2016 11:34:39 AM	24695
EPA METHOD 8015D: GASOLINE RANG	GE .					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/11/2016 3:03:26 PM	24697
Surr: BFB	110	80-120		%Rec	1	4/11/2016 3:03:26 PM	24697
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	4/11/2016 3:03:26 PM	24697
Toluene	ND	0.047		mg/Kg	1	4/11/2016 3:03:26 PM	24697
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2016 3:03:26 PM	24697
Xylenes, Total	ND	0.093		mg/Kg	1	4/11/2016 3:03:26 PM	24697
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	4/11/2016 3:03:26 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

**CLIENT:** Diversified Field Services, Inc Client Sample ID: Pt 7 @ 1'

 Project:
 Lee Federal
 Collection Date: 4/4/2016 9:50:00 AM

 Lab ID:
 1604324-009
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	ND	30	mg/Kg	20	4/12/2016 7:36:57 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	}			Analyst	:: KJH
Diesel Range Organics (DRO)	82	9.3	mg/Kg	1	4/11/2016 11:56:06 AM	1 24695
Surr: DNOP	79.7	70-130	%Rec	1	4/11/2016 11:56:06 AM	1 24695
EPA METHOD 8015D: GASOLINE RANG	GE .				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/11/2016 3:50:38 PM	24697
Surr: BFB	106	80-120	%Rec	1	4/11/2016 3:50:38 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	4/11/2016 3:50:38 PM	24697
Toluene	ND	0.047	mg/Kg	1	4/11/2016 3:50:38 PM	24697
Ethylbenzene	ND	0.047	mg/Kg	1	4/11/2016 3:50:38 PM	24697
Xylenes, Total	ND	0.093	mg/Kg	1	4/11/2016 3:50:38 PM	24697
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	4/11/2016 3:50:38 PM	24697

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### **Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 9 of 20 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 10:00:00 AM

 Lab ID:
 1604324-010
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/12/2016 8:14:10 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	110	99		mg/Kg	10	4/9/2016 2:36:12 AM	24695
Surr: DNOP	0	70-130	S	%Rec	10	4/9/2016 2:36:12 AM	24695
EPA METHOD 8015D: GASOLINE RANG	E					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2016 5:48:15 PM	24697
Surr: BFB	106	80-120		%Rec	1	4/11/2016 5:48:15 PM	24697
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2016 5:48:15 PM	24697
Toluene	ND	0.049		mg/Kg	1	4/11/2016 5:48:15 PM	24697
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2016 5:48:15 PM	24697
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2016 5:48:15 PM	24697
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	4/11/2016 5:48:15 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

**CLIENT:** Diversified Field Services, Inc Client Sample ID: Pt 7 @ 3'

 Project:
 Lee Federal
 Collection Date: 4/4/2016 10:10:00 AM

 Lab ID:
 1604324-011
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>LGT</b>
Chloride	56	30	mg/Kg	20	4/12/2016 8:51:22 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	3			Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	56	9.9	mg/Kg	1	4/11/2016 12:17:42 PM	1 24695
Surr: DNOP	79.0	70-130	%Rec	1	4/11/2016 12:17:42 PM	1 24695
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/11/2016 6:11:47 PM	24697
Surr: BFB	104	80-120	%Rec	1	4/11/2016 6:11:47 PM	24697
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/11/2016 6:11:47 PM	24697
Toluene	ND	0.046	mg/Kg	1	4/11/2016 6:11:47 PM	24697
Ethylbenzene	ND	0.046	mg/Kg	1	4/11/2016 6:11:47 PM	24697
Xylenes, Total	ND	0.093	mg/Kg	1	4/11/2016 6:11:47 PM	24697
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	4/11/2016 6:11:47 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 11 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

CLIENT: Diversified Field Services, Inc

Client Sample ID: Pt 7 @ 4'

 Project:
 Lee Federal
 Collection Date: 4/4/2016 10:20:00 AM

 Lab ID:
 1604324-012
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	1100	30	mg/Kg	20	4/12/2016 9:03:47 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Analys	:: KJH
Diesel Range Organics (DRO)	77	9.7	mg/Kg	1	4/11/2016 12:39:07 PM	1 24695
Surr: DNOP	80.1	70-130	%Rec	1	4/11/2016 12:39:07 PM	1 24695
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2016 6:35:26 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 6:35:26 PM	24697
EPA METHOD 8021B: VOLATILES					Analys	:: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 6:35:26 PM	24697
Toluene	ND	0.048	mg/Kg	1	4/11/2016 6:35:26 PM	24697
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2016 6:35:26 PM	24697
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2016 6:35:26 PM	24697
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	4/11/2016 6:35:26 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 12 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 10:50:00 AM

 Lab ID:
 1604324-013
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	4/12/2016 9:16:12 PM	24751
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	3			Analyst	:: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/9/2016 3:39:56 AM	24695
Surr: DNOP	92.3	70-130	%Rec	1	4/9/2016 3:39:56 AM	24695
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2016 6:59:00 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 6:59:00 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/11/2016 6:59:00 PM	24697
Toluene	ND	0.049	mg/Kg	1	4/11/2016 6:59:00 PM	24697
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2016 6:59:00 PM	24697
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2016 6:59:00 PM	24697
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	4/11/2016 6:59:00 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 13 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

CLIENT:Diversified Field Services, IncClient Sample ID: Vertical 8 @ SurfaceProject:Lee FederalCollection Date: 4/4/2016 11:20:00 AMLab ID:1604324-014Matrix: SOILReceived Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	97	30		mg/Kg	20	4/12/2016 9:28:36 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	180	96		mg/Kg	10	4/9/2016 4:01:11 AM	24695
Surr: DNOP	0	70-130	S	%Rec	10	4/9/2016 4:01:11 AM	24695
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2016 7:22:38 PM	24697
Surr: BFB	103	80-120		%Rec	1	4/11/2016 7:22:38 PM	24697
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2016 7:22:38 PM	24697
Toluene	ND	0.048		mg/Kg	1	4/11/2016 7:22:38 PM	24697
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2016 7:22:38 PM	24697
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2016 7:22:38 PM	24697
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/11/2016 7:22:38 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 14 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 11:50:00 AM

 Lab ID:
 1604324-015
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: <b>LGT</b>
Chloride	160	30	mg/Kg	20	4/12/2016 9:41:01 PM	24751
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analys	st: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/9/2016 4:22:22 AM	24695
Surr: DNOP	93.9	70-130	%Rec	1	4/9/2016 4:22:22 AM	24695
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2016 7:46:01 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 7:46:01 PM	24697
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 7:46:01 PM	24697
Toluene	ND	0.048	mg/Kg	1	4/11/2016 7:46:01 PM	24697
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2016 7:46:01 PM	24697
Xylenes, Total	ND	0.095	mg/Kg	1	4/11/2016 7:46:01 PM	24697
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	4/11/2016 7:46:01 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 15 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2016

 Project:
 Lee Federal
 Collection Date: 4/4/2016 8:40:00 AM

 Lab ID:
 1604324-016
 Matrix: SOIL
 Received Date: 4/7/2016 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: LGT
Chloride	ND	30	mg/Kg	20	4/12/2016 9:53:25 PM	24751
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst	:: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/9/2016 4:43:40 AM	24695
Surr: DNOP	95.5	70-130	%Rec	1	4/9/2016 4:43:40 AM	24695
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2016 8:09:22 PM	24697
Surr: BFB	105	80-120	%Rec	1	4/11/2016 8:09:22 PM	24697
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2016 8:09:22 PM	24697
Toluene	ND	0.048	mg/Kg	1	4/11/2016 8:09:22 PM	24697
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2016 8:09:22 PM	24697
Xylenes, Total	ND	0.097	mg/Kg	1	4/11/2016 8:09:22 PM	24697
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	4/11/2016 8:09:22 PM	24697

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 16 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1604324** 

14-Apr-16

**Client:** Diversified Field Services, Inc

**Project:** Lee Federal

Sample ID MB-24742 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 24742 RunNo: 33467

Prep Date: 4/11/2016 Analysis Date: 4/11/2016 SeqNo: 1029376 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-24742 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 24742 RunNo: 33467

Prep Date: 4/11/2016 Analysis Date: 4/11/2016 SeqNo: 1029377 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID MB-24751 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 24751 RunNo: 33468

Prep Date: 4/12/2016 Analysis Date: 4/12/2016 SeqNo: 1029424 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-24751 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 24751 RunNo: 33468

Prep Date: 4/12/2016 Analysis Date: 4/12/2016 SeqNo: 1029425 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.2 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

C 1 HN / I D

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 17 of 20

### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

9.5

WO#: 1604324

14-Apr-16

**Client:** Diversified Field Services, Inc

**Project:** Lee Federal

Sample ID MB-24695

Surr: DNOP

Sample ID LCS-24695 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 24695 RunNo: 33385 Prep Date: 4/8/2016 Analysis Date: 4/8/2016 SeqNo: 1027558 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 50.00 O 65.8 51 103 136 Surr: DNOP 4.4 5.000 88.2 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 24695 RunNo: 33385 Analysis Date: 4/8/2016 Prep Date: 4/8/2016 SeqNo: 1027559 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

94.5

70

130

Sample ID 1604324-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Pt 5 Surface Batch ID: 24695 RunNo: 33431

10.00

Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028117 Units: mg/Kg %REC LowLimit %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val HighLimit Qual Diesel Range Organics (DRO) 69 47.48 47.84 45.4 31.2 162 Surr: DNOP 4.0 4.748 84.8 70 130

SampType: MSD Sample ID 1604324-001AMSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Pt 5 Surface Batch ID: 24695 RunNo: 33431 Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028118 Units: mg/Kg %REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) 79 10 50.15 47.84 61.7 31.2 162 12.7 31.7 Surr: DNOP 4.2 5.015 84.2 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 18 of 20

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1604324** 

14-Apr-16

Client: Diversified Field Services, Inc

**Project:** Lee Federal

Sample ID MB-24697 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 24697 RunNo: 33445

Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028431 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 80 120

Sample ID LCS-24697 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 24697 RunNo: 33445

Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028432 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 98.4
 80
 120

 Surr: BFB
 1100
 1000
 111
 80
 120

Sample ID 1604324-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Pt 5 Surface Batch ID: 24697 RunNo: 33445

Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028439 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 24
 4.8
 23.79
 0
 99.6
 59.3
 143

 Surr: BFB
 1100
 951.5
 112
 80
 120

Sample ID 1604324-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Pt 5 Surface Batch ID: 24697 RunNo: 33445

Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028440 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.9 24.30 104 59.3 143 6.51 20 Λ Surr: BFB 1100 971.8 118 80 120 0 0

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

D. Camala all Nat la Danas

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 19 of 20

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1604324

14-Apr-16

**Client:** Diversified Field Services, Inc

**Project:** Lee Federal

Sample ID MB-24697 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 24697 RunNo: 33445 Prep Date: 4/8/2016 Analysis Date: 4/11/2016 SeqNo: 1028486 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050

Ethylbenzene ND 0.050 ND Xylenes, Total 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 109 80 120

Sample ID LCS-24697	Samp	Type: <b>LC</b>	s	Tes								
Client ID: LCSS	Batc	h ID: <b>24</b>	697	F	RunNo: 3	3445						
Prep Date: 4/8/2016	Analysis [	Date: 4/	11/2016	S	SeqNo: 1	028487	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.92	0.025	1.000	0	91.7	75.3	123					
Toluene	0.89	0.050	1.000	0	89.1	80	124					
Ethylbenzene	0.88	0.050	1.000	0	87.7	82.8	121					
Xylenes, Total	2.6	0.10	3.000	0	87.1	83.9	122					
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120					

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 20 of 20

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

RoptNo: 1 Client Name: **DIVERSIFIED FIELD SE** Work Order Number: 1604324 9/07/16 Received by/date: ane Show Logged By: Anne Thorne 4/7/2016 9:20:00 AM 4/8/2016 Completed By: **Anne Thorne** 01/08/16 Reviewed By: Chain of Custody No 🗆 Not Present 🗹 1. Custody seals intact on sample bottles? No 🗀 Yes 🗸 Not Present  $\square$ 2. Is Chain of Custody complete? 3. How was the sample delivered? **Courier** Log In NA 🗌 No 🗌 Yes 🗸 4. Was an attempt made to cool the samples? No 🗆 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? No 🗌 Yes 🗸 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No NA 🗌 Yes 🗌 No 🗸 9. Was preservative added to bottles? Yes 🗌 No 🔲 No VOA Vials 10. VOA vials have zero headspace? Yes  $\square$ No 🗹 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗔 Yes 🗸 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗹 No 🗆 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗸 14. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🔽 Yes 🗌 No 🗌 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax Regarding: **Client Instructions:** Perst add sumple PTSE4' to LOC/AT D41081K 17. Additional remarks: 18. Cooler Information Temp °C | Condition | Seal Intact | Seal No | Seal Date Signed By Cooler No 4.1 Good Yes

			stody Record	Turn-Around <sup>-</sup>	Time: 5 day	Far		9		HA	MLL	EI	NV	TR	20	NN	1E	NT	AL	
ent:	Dive	sified	Envisionmental	☑ Standard	□ Rush		. <u>-</u> -	a tr											RY	<b>F</b>
	77.145.15	-31131-14	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Project Name	•	-					.w.ha									
ailing	Address	: 2nc	W Snyder St	Lee 1	Federal	ļ		490	11 Ha	wkins	NE -	- Alb	uque	erqu	e, NN	M 87	109			
$\overline{\mathcal{H}}$	obbs.	NM	882410	Project #:	- CO-CLOCI			Te	1. 505	5-345-	3975	F	ax :	505-	345-	4107	7			
		<del>5</del> )631-		T # 94							ļ	Analy	/sis	Req	uest					
	r Fax#:			Project Manager:				(yl	30				O₄)					ļ		
	⊃ackage:	<del> </del>	□ Level 4 (Full Validation)	Bruce Baker				BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)		SIMS)		,PO <sub>4</sub> ,S(	2 PCB's						
credi	tation			Sampler: C	hers Flo	ores	TMB's (8021)	표	_	=			S S	8082				-		2
NEL	AP	□ Othe	er	On Ice:	n Ice: ☑ Yes □ No					418	or 82	<u>w</u>	ဝို			8				or N)
EDD	(Type)	·		Sample Temp	perature: 4.		<u> Бтех</u> )+ мтве	置	9) (	g g	9 6	Metals	ð	icide	<u> </u>	ا جَ			ŀ	\) si
)ate	Time	Matrix	Sample Request ID	Container Type and #	Container Type and # Preservative HEAL No: 1064324					TPH (Method 418.1) FDB (Method 504.1)	PAH's (8310	RCRA 8 M	Anions (F.C.)NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y
1/16	080	50:1	0+5 surlace	402 glass	ice	col	X		X			<u> </u>	X							Ш
\	9810	l #	5 15 61		1	702			11			<u> </u>			i					
7	0820		pT5 @2'		\	703														
$\top$	0830		pt 5 cm3			-004												$\perp$		
$\top$	0900		ot 6 6) Surface			705										F 1 .				Ш
<del>/                                    </del>	0910		pt 6 @ Surface			706														
	0920	1 1	pt 6 002'			-07														
	0040	1 1	pt 7 @ sus face			-208														
	0950	1 1	ot 7001'			-009					·	<u> </u>								
$\downarrow$	1000	1 3	DT 7 602'			010											Ш			
$\top$	1010		OT 7 603'			7011							Ш		<u> </u>					
1	1020		pr 7 004'		-	-012	-		1				1							
ite.	Time:	Relinquish	ned by:	Received by:		Date Time 4/6/16 1000	Ren e.m	narks	+o'	Mal Mh				edf	. is	com				
م) الو <sub>pte:</sub> /	Time:	Relinquish		Received by:	Date Time	<b>'^</b>			מויו נוויו	urzt. Hers	on a on a					5				
1/6	1900	Mp	Ju	Sellet 04/07/16 093						C+1	ores	න /	<u> </u>	<u>- Qr</u>	<u>, j</u>	<u>50Ke</u>		_	he co	ep.i.
**	If necessary	, samples sub	omitted to Hall Environmental may be sui	contracted to other a	ccredited laborator	ies. This serves as notice of this	s possil	bility. 🖟	Any su	b-contrac	ted data	a will b	e clear	rly not	ated or	n the a	nalytica	al report	٤.	

			istody Record	Turn-Around	S day	Tural				НΔ		FI	NV	TR	10	NN	1EN	ITAI	L
ent:	Divers	ilied t	Environmental	Standard	l □ Rusi			Mark Co.										ΓOR	
				Project Nam	e:					ww	w.hal	lenv	ironi	nent	ial.cc	om			
ailing	Address	206	W Snyder St.	Lee F	ederal			490	1 Hav	/kins l	NE -	Alb	uqu	erqu	e, Ni	M 87	109		
	Hobbs	, NM	88240	Project #:	- <b>-</b>			Tel	. 505-	345-3	975	F	ax	505-	345-	4107	7		
ione :	#: (57		31-4661	7#94							Α	naly	/sis	Req	uest				
nail o	r Fax#: \	Flores	ediversi fred fsi.co	ow <b>∕</b> Project Mana	ager:			nly)	<u>Q</u>				0₄)						
	Package:		□ Level 4 (Full Validation)				's (8021)	TPH (Gas only)	RO / MRO)		SIMS)		,PO <sub>4</sub> ,S(	PCB's					
credi	tation			Sampler: CV	سين	~e5	TMB	표	민 (	-   <del>-</del>		ľ	NO2	308,					9
NEL		□ Othe	er	On Ice:	⊻ Yes	□ No	_ +	+	(GRO / [	504.1)	r 82	S	03,1	} / S		8			o l
EDD	(Type)_	1		Sample Ten	perature: <i>4</i>			盟	<u>ン</u> して	g		letal	( <del>5</del> )	cide	Æ	ا جُ			λ) s
)ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	RTEX)+ MTBE	BTEX + MT	(TPH)8015B (C	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F(C)NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
4/200	1050	So:	vedical 7001	Hoz. glass	ice	-013	X		χ			`	X						
<del>/</del>	1120	j	8@surjac	e		7014			)				Ţ						
1	1150	1	1 7 9 1			015							1						
*		1	PT5 041	<b>-</b>		-016	1			<del>                                     </del>									
<u> </u>	125/10	-4-	1			- Ore	+	-											
		-2-	04/08/16						11-	+			H						
		1	PERST.		<del>                                     </del>								H						
<u></u>			-						++-	<u> </u>			H	<u> </u>			-		
+	· ·						+		++	+	<b>-</b>		╁		$\vdash \vdash$	$\vdash \vdash$		+	
+									+	<del> </del>	<del> </del>	_	╁		$\vdash$	$\vdash$		+	
+	<del>                                     </del>	-			<del>                                     </del>		+		+	+	╂		╂		$\vdash$			+	
$\not$					<u> </u>						-		4			$\vdash$		_	
/	Timo	Relinguish	and hut	Received by:		Date Time	Pon	oorko	<u> </u>		<u> </u>	Ļ		<u> </u>		100			
<sub>1</sub> te: <u> </u> 2016	Time:	Chan	The	SIL		4/6/16 100	- GW	Novil	40	wb.	whov	ऽ@ `क्ष	dîU	Levs:	·tie	A K	1.00%	^	
ite:	Time:	Relinquish	get by:	Received by:		Date Time			w,	oarr	ersov love	30							
6/12	1900	Sh	oth	Sol 1	let o	4/07/16 0920		L	አ <b>√</b> ሃ <i>ψ</i>	. ba	Lev					<u>). (0</u>			
•	f necessary,	samples s	mitted to Hall Environmental may be su	bcontracted to other:	accredited laborator	ries. This serves as notice of th	is possit	oility. A	ny sub-	ontracte	ed data	will be	e clear	ly nota	ated or	the ar	nalytical i	eport.	