

7KJ 1487847238

September 17, 2013

HOBBS OCD

RECEIVED

AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607

Fax 806.467.0622

Mr. Geoffrey Leaking **NMOCD District 1** 1625 N. French Drive Hobbs, NM 88240

Subject:

Soil Assessment and Remediation Work Plan

Cameron Oil & Gas Inc.

Federal 6 No. 1 API # 30-025-27739

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575 746 8768 Fax 575.746.8905

Dear Mr. Leaking,

HOBBS

ARTESIA

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

Cameron Oil & Gas Inc. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Federal 6 No. 1 release. The results of our soil assessment and proposed remediation activities consist of the following:

MIDI AND 2901 State Hwv 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Incident Date

July 22, 2013

Background Information

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622

The Federal 6 No. 1 is located approximately forty-five (45) miles East of Artesia, New Mexico. The legal location for the site is Section 6, Township 18 South and Range 33 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.773663 North and -103.707825 West. A site plan is presented in Appendix I.

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands. The local surface and shallow geology is Quaternary in age and is comprised of sandy eolian deposits derived from sedimentary rock including silty soils under lain with a sandy clay loam and cemented material. The New Mexico State Engineer web site indicates the nearest ground water data to be in S8-T18S-R33E. The ground water in Section 1 is reported to be a depth of 100' below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is **0** based on the as following:

ENVIRONMENTAL CONSULTING

ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT

Depth to ground water >100' Wellhead Protection Area >1000° Distance to surface water body >1000°

Toll Free: 866.742.0742 www.talonlpe.com

GENERAL CONTRACTING

SEP 27 2013

Incident Description

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A valve on the back of a tank leaked causing a release of approximately 120 barrels (bbls) of mixed fluids. The fluid flowed from the tank battery across the location, into the pasture and continued to a distance of approximately 675-feet from the tank battery. A total of 70bbls of fluid was recovered with vacuum trucks. A site plan is presented in Appendix I

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	164	2160	8840	70500
S-1	1	6.02	1880	68.9	535
S-1	2	ND	2240	ND	11
S-1	3	ND	3160	ND	ND
S-1	6	-	1230		
S-1	8		1090	-1,443	
S-1 Refusal	10		1440		220
S-2	0	ND	32	ND	ND
S-2	1	ND	48	ND	ND
S-3	0	ND	ND	ND	ND
S-3	1	ND	ND	ND	ND
S-3	2	ND	ND	ND	ND
S-3	3	ND	ND	ND	ND
S-4	0	ND	208	ND	ND
S-4	1	ND	48	ND	ND
S-5	0	ND	ND	ND	ND
S-5	1	ND	ND	ND	ND
S-6	0	ND	ND	ND	ND
S-6	1	ND	ND	ND	ND
S-6	2	ND	ND	ND	ND
S-7	0	ND	ND	ND	ND
S-7	1	ND	ND	ND	ND
S-7	2	ND	ND	ND	ND
S-8	0	ND	ND	ND	ND
S-8	1	ND	ND	ND	ND
S-9	0	ND	ND	ND	ND
S-9	1	ND	ND	ND	106

(--) Analyte not tested

(ND) Analyte not detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) for this project is 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions

- The impacted area on location (in the vicinity of S-1) will be excavated RECEIVED of 4-feet bgs.
- The excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- A 20-mil reinforced liner will be installed in the bottom of the excavated at a depth of 4feet bgs.
- The excavated area will be backfilled with caliche and contoured to match the surrounding location..

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

Sheldon Hitchcock

Environmental Scientist

David J. Adkins District Manager





Scale: NTS

Drawn By: TJS

Cameron Oil & Gas Fed 6 #1
Cameron Oil & Gas Inc.
Eddy County, New Mexico
Figure 1 - Site Plan



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub- QQQ

na

(Y

Depth Depth Water
Distance Well Water Column

L 06131

POD Number

Code basin County 64 16 4 Sec Tws Rng

L LE 3 1 2 08 18S 33E

623241 3626167*

2504

194 100

th to Water 400 foot

Average Depth to Water:

100 feet

Minimum Depth:

h: 100 feet

Maximum Depth:

100 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 620802

Northing (Y): 3626735

Radius: 3000

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*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



August 09, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL 6 WELL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/05/13 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

HOBBS OCD

SEP 2 7 2013

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Analytical Results For:

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TALON LPE

DAVID ADKINS 408 W. TEXAS AVE. SEP 2 7 2013

ARTESIA NM, 88210

(575) 745-8905 Fax To:

RECEIVED

Received:

08/05/2013

Sampling Date: Sampling Type: 08/02/2013

Soil

Reported:

08/09/2013 FEDERAL 6 WELL #1

Sampling Condition:

Cool & Intact

Project Name: Project Number:

701683.001.01

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-1 0' (H301829-01)

BTEX 8260B	mg	/kg	Analyzed By: MS		May 25				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	24.1	5.00	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	36.9	5.00	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	103	15.0	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	164	30.0	08/07/2013	ND					

Surrogate: Dibromofluoromethane

99.2%

99.4%

61.3-142 71.3-129

Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene

121% 65.7-141

Chloride,	SM4500CI-B
-----------	------------

10	05.7	-171

Chloride, SM4500CI-B	No. of the last	mg/	kg	Analyze	d By: AP	6	1 1	A STATE OF THE STA		
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		2160	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	Art -	mg/	/kg	Analyze	d By: MS			34 F 316		S-06
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10		8840	500	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28		70500	500	08/07/2013	ND	193	96.4	200	3.30	

Surrogate: 1-Chlorooctane

678 %

65.2-140

Surrogate: 1-Chlorooctadecane

875 %

63.6-154

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keine



Analytical Results For:

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TALON LPE

SEP 27 2013

DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

RECEIVED

Received:

08/05/2013

Sampling Date: Sampling Type: 08/02/2013 Soil

Reported:

08/09/2013 FEDERAL 6 WELL #1

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Name: Project Number: Project Location:

701683.001.01

NOT GIVEN

Sample ID: S-1 1' (H301829-02)

BTEX 8260B	mg	/kg	Analyze	ed By: MS	W.	2 10 1		A STATE	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	0.608	0.050	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	1.34	0.050	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	4.07	0.150	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	6.02	0.300	08/07/2013	ND					
Surrogate: Dibromofluoromethane	97.5	% 61.3-14	2			1 7			
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	197	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP	1	13.5%			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS		No.		4 11	The same
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	68.9	50.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	535	50.0	08/07/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0			1 1/80			
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

SEP 27 2013

Fax To: (575) 745-8905

RECEIVED

Received:

08/05/2013

08/02/2013

Reported: Project Name:

RTEY 8260B

08/09/2013 FEDERAL 6 WELL #1 Sampling Date: Sampling Type:

Soil

Project Number:

701683.001.01

ma/ka

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-1 2' (H301829-03)

BTEX 8260B	mg/	kg	Analyze	ed By: MS			1 2 2 2	E STATE	The State of
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	< 0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	< 0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	< 0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/07/2013	ND					
Surrogate: Dibromofluoromethane	97.2 9	% 61.3-14.	2			da .			
Surrogate: Toluene-d8	99.9 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108 %	65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP	A. C.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	ed By: MS				100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	11.0	10.0	08/07/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	87.8 9	% 65.2-14	0		1.50		1,3		
Jan . o Sanc. 1 Chiloroctune									

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Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

SEP 27 2013

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Received: Reported: 08/05/2013 08/09/2013

Sampling Date: 08/02/2013 Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-1 3' (H301829-04)

BTEX 8260B	mg/	kg	Analyze	d By: MS				100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	< 0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/07/2013	ND					
Surrogate: Dibromofluoromethane	95.0	% 61.3-14	2				N. W. W.		
Surrogate: Toluene-d8	99.8	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104 9	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		No.	and the		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	08/08/2013	ND	432	108	400	3.77	
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	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	90.8	% 65.2-14	0	San Barrie	£ - 1		- 4	1 1381	
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

SEP 27 2013

Fax To: (575) 745-8905

RECEIVED

Received: Reported: 08/05/2013 08/09/2013 Sampling Date: 08/02/2013
Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-2 0' (H301829-05)

BTEX 8260B	mg	/kg	Analyze	d By: MS	9		* LONE FOR V	1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	< 0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/07/2013	ND					
Surrogate: Dibromofluoromethane	99.0	% 61.3-142		1					
Surrogate: Toluene-d8	101	% 71.3-129	1						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-141							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	200		# 19		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	3				12.77
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	

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Celey D. Keine



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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

SFP 27 2013

Fax To: (575) 745-8905

Received:

08/05/2013

RECEIVED

Reported:

08/09/2013

Sampling Date: Sampling Type: 08/02/2013 Soil

Project Name:

FEDERAL 6 WELL #1

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

701683.001.01

Project Location:

NOT GIVEN

Sample ID: S-2 1' (H301829-06)

BTEX 8260B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	96.6	% 61.3-14	2		-4,97				K.
Surrogate: Toluene-d8	101 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP		100		1.37	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS	200				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	94.8	% 65.2-14	0					10074	
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

HOBBS OCD

TALON LPE DAVID ADKINS

SEP 27 2013

408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

RECEIVED

Received:

08/05/2013

Reported:

08/09/2013

Sampling Date: Sampling Type: 08/02/2013 Soil

Project Name:

FEDERAL 6 WELL #1

Sampling Condition:

Cool & Intact

Project Number:

701683.001.01

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-3 0' (H301829-07)

BTEX 8260B	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	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-142	19						4
Surrogate: Toluene-d8	98.4	% 71.3-129							
Surrogate: 4-Bromofluorobenzene	102 9	65.7-141							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP				100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS				上以 海	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
CDO CC C40	<10.0	10.0	08/07/2013	ND	177	88.3	200	1.38	
GRO C6-C10			08/07/2013	ND	193	96.4	200	3.30	

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

SEP 27 2013

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Received: Reported: 08/05/2013 08/09/2013 FEDERAL 6 WELL #1 Sampling Date: 08/02/2013 Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-3 1' (H301829-08)

BTEX 8260B	mg/	kg	Analyze	d By: MS		100,500			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	93.9	% 61.3-14	2	14 1/16		1.	1	Ser The	
Surrogate: Toluene-d8	101 5	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102 9	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		3 3 3			146.7
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	ed By: MS	4-	Tries I	et kjert.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0		V _{k,m}	1			Par And And
Surrogate: 1-Chlorooctadecane	116	63.6-15	4						

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Received:

08/05/2013

Sampling Date:

08/02/2013

Reported:

08/09/2013

Sampling Type:

Soil

Project Name:

FEDERAL 6 WELL #1

Sampling Condition:

Cool & Intact

Project Number:

701683.001.01

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-3 2' (H301829-09)

BTEX 8260B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	94.6	% 61.3-14.	2		ey The			T. Barrie	
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						365
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		17-17-			No.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/08/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	96.3	% 65.2-14	0			et 1 1	7 7 1 2 1		
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

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Received:

08/05/2013

Sampling Date: 08/02/2013

Reported: Project Name: 08/09/2013 FEDERAL 6 WELL #1

Sampling Type: Soil

Project Number:

701683.001.01

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-3 3' (H301829-10)

BTEX 8260B	mg	/kg	Analyze	d By: MS	- 18		The second		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	2					14.0	
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP		ź.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	lay N				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	193	96.4	200	3.30	
Surrogate: 1-Chlorooctane	88.1	% 65.2-14	0	4 - 7 - 7	37		The state of the		
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						

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Received:

08/05/2013 08/09/2013

Sampling Date: Sampling Type: 08/02/2013ECEIVED

Reported:

FEDERAL 6 WELL #1

Sampling Condition:

Soil

Project Name: Project Number:

701683.001.01

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-4 0' (H301829-11)

BTEX 8260B	mg/	kg	Analyze	ed By: MS	T lead	1 1 1 1 2		- 1,144	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	97.8 9	61.3-14	2						
Surrogate: Toluene-d8	101 %	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104 %	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS	Marie L				ALVES.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

91.1% 65.2-140 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Received:

08/05/2013

Sampling Date:

08/02/2013

Reported:

08/09/2013 FEDERAL 6 WELL #1

Sampling Type: Sampling Condition:

Cool & Intact

Soil

Project Name: Project Number: Project Location:

701683.001.01 **NOT GIVEN**

Sample Received By:

Jodi Henson

Sample ID: S-4 1' (H301829-12)

BTEX 8260B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Analyzed By: MS

Surrogate: Dibromofluoromethane 98.7% 61.3-142 Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101% 65.7-141

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP
	3/3	

Chioride, SM4500CI-B	mg/k	cg	Anaiyze	а ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/k	кg	Analyze	d By: MS	8 : 8	- India			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

76.5 % 65.2-140 Surrogate: 1-Chlorooctane 93.6% 63.6-154 Surrogate: 1-Chlorooctadecane

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08/05/2013

Sampling Date: Sampling Type: 08/02/2013

Reported: Project Name: 08/09/2013 FEDERAL 6 WELL #1

Sampling Condition:

Cool & Intact

Project Number: Project Location: 701683.001.01 NOT GIVEN

Sample Received By:

Jodi Henson

Soil

Sample ID: S-5 0' (H301829-13)

BTEX 8260B

mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	< 0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	< 0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	98.0	% 61.3-14	12						
Surroguie. Dibromojtuorometiume	20.0								

Surrogate: Toluene-d8

98.7% 71.3-129

Surrogate: 4-Bromofluorobenzene

103 % 65.7-141

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP			and the same			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg	mg/kg		Analyzed By: MS		1 4 40			YVA
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

Surrogate: 1-Chlorooctane

87.6%

65.2-140

Surrogate: 1-Chlorooctadecane

109 %

63.6-154

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Received: Reported: 08/05/2013 08/09/2013

Project Name: Project Number: FEDERAL 6 WELL #1

Project Location:

701683.001.01 NOT GIVEN

Sampling Date: 08/02/2013

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: S-5 1' (H301829-14)

BTEX 8260B	mg/	kg	Analyze	d By: MS	gods .				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	95.3 9	61.3-14.	2	1					
Surrogate: Toluene-d8	101 %	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105 %	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP			150			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	Mi b			4-3-5	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	67.4 9	65.2-14	0				10 10 30 10 10		
Surrogate: 1-Chlorooctadecane	83.7 5	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Received: Reported: 08/05/2013 08/09/2013 EEDERAL 6 WELL Sampling Date: 08/02/2013
Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S-6 0' (H301829-15)

BTEX 8260B	mg/	kg	Analyze	d By: MS					3-75-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	99.2	% 61.3-14	2		y Page				
Surrogate: Toluene-d8	100 5	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104 9	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP	14 12				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	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	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	80.5	% 65.2-14	0	All and the second					
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905

Fax To:

HOBBS OCD

SEP 27 2013

Received:

08/05/2013

Sampling Date:

08/02/2015CEIVED

Reported:

08/09/2013 08/09/2013

Sampling Type:

Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NOT GIVEN

Sample ID: S-6 1' (H301829-16)

BTEX 8260B	mg/kg		Analyzed By: MS		18				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	98.2	% 61.3-14	2						
Surrogate: Toluene-d8	99.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500CI-B	mg	'kg	Analyzed By: AP						4 13
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	10				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0		1				
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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SEP 27 2013

Fax To:

: (575) 745-8905

RECEIVED

Received:

08/05/2013

Sampling Date: 08/02/2013

Reported:

08/09/2013 FEDERAL 6 WELL #1 Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-6 2' (H301829-17)

BTEX 8260B	mg/kg		Analyzed By: MS					V. Kar	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	100 9	% 61.3-14	2	Tal.				Kis W	
Surrogate: Toluene-d8	101 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103 9	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP			10			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	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	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0			file in		P. A. D.	
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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SEP 27 2013

408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905 RECEIVED

Received:

08/05/2013

Sampling Date:

08/02/2013

Reported:

08/09/2013

Sampling Type:

Project Name:

FEDERAL 6 WELL #1

Sampling Condition:

Cool & Intact

Project Number:

701683.001.01

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-7 0' (H301829-18)

BTEX 8260B	mg/	/kg	Analyze	ed By: MS		2 3			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	97.0	% 61.3-14	2			Mary St.			
Surrogate: Toluene-d8	100	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500CI-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	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	75.9	% 65.2-14	0	* W 1983	20,00	1			
Surrogate: 1-Chlorooctadecane	89.1	% 63.6-15	4						

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Fax To: (575) 745-8905 RECEIVED

Received:

08/05/2013

Sampling Date: Sampling Type: 08/02/2013

Reported: Project Name: 08/09/2013 FEDERAL 6 WELL #1

Sampling Condition: Sample Received By: Soil Cool & Intact

Project Number:

701683.001.01

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-7 1' (H301829-19)

BTEX 8260B	mg	/kg	Analyze	ed By: MS					247
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	96.7	% 61.3-14	2	WAY.	J. 4.5				
Surrogate: Toluene-d8	99.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP	16, 4		W. 16		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS	No.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	89.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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Analytical Results For:

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TALON LPE

SEP 27 2013

DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905 Fax To:

RECEIVED

Received:

08/05/2013

Sampling Date: 08/02/2013

Reported:

08/09/2013 FEDERAL 6 WELL #1

Sampling Type: Soil

Project Name: Project Number: 701683.001.01

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: S-7 2' (H301829-20)

BTEX 8260B	mg/	kg	Analyze	d By: MS		100			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	98.5	% 61.3-14	2						
Surrogate: Toluene-d8	101 9	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103 9	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		E Buch			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	Lat.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	84.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	4						

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1OBBS OCD

Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

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SEP 27 2013

Fax To: (5

Гах

(575) 745-8905

Received:

08/05/2013 08/09/2013 Sampling Date: 08/02/2013

Reported: Project Name:

RTEY 9260B

FEDERAL 6 WELL #1

ma/ka

Sampling Type: Soil Sampling Condition: Coo

Project Number:

701683.001.01

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-8 0' (H301829-21)

BTEX 8260B	mg/	kg	Analyze	d By: MS		The state of			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	95.2	% 61.3-142	?	- F	ų.		CALL TO		
Surrogate: Toluene-d8	100 9	71.3-129)						
Surrogate: 4-Bromofluorobenzene	103 9	65.7-14							
Chloride, SM4500CI-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	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS			1.101		N. Park
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	93.1	% 65.2-140)			10 TO			
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	1						

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SEP 2 7 2013

408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

RECEIVED

Received:

08/05/2013

Sampling Date: 08/02/2013

Reported:

08/09/2013 FEDERAL 6 WELL #1

Sampling Type: Soil

Project Name: Project Number: FEDERAL 6 WELL #1 701683.001.01

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location:

NOT GIVEN

97.5 %

63.6-154

Sample ID: S-8 1' (H301829-22)

BTEX 8260B	mg,	kg	Analyze	d By: MS					TO YOUR
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	97.7	% 61.3-14	2	L					
Surrogate: Toluene-d8	99.1	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500CI-B	mg	kg	Analyze	d By: AP	9			6-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	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	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



HOBBS OCD

Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

SEP 2 7 2013

Fax To: (575) 745-8905

RECEIVED

Jodi Henson

Received: Reported: 08/05/2013 08/09/2013 Sampling Date: 08/02/2013
Sampling Type: Soil

Project Name:

FEDERAL 6 WELL #1

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By:

Project Number:

701683.001.01

86.3 %

63.6-154

Project Location: NOT GIVEN

Sample ID: S-9 0' (H301829-23)

BTEX 8260B	mg	/kg	Analyze	d By: MS			THE WILLIAM	100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	96.1	% 61.3-14.	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		and the second			18
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS		32-31			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

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Surrogate: 1-Chlorooctadecane



HOBBS OCD

Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

SEP 2 7 2013

RECEIVED

Received:

08/05/2013

08/02/2013

Reported:

08/09/2013

Sampling Date: Sampling Type: Soil

Sample Received By:

Project Name:

FEDERAL 6 WELL #1

Sampling Condition:

Project Number:

701683.001.01

Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-9 1' (H301829-24)

BTEX 8260B	mg	kg	Analyze	d By: MS		1 1 7 7 8			Problem.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					
Surrogate: Dibromofluoromethane	95.4	% 61.3-14	2		Sto 1				
Surrogate: Toluene-d8	98.6	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	120	% 65.7-14	1						
Chloride, SM4500CI-B	mg	kg	Analyze	d By: AP		V 20		Lahetta	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	416	104	400	0.00	
TPH 8015M	mg	kg	Analyze	d By: MS			N. Librert		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	106	10.0	08/08/2013	ND	180	90.2	200	2.38	
Surrogate: 1-Chlorooctane	70.2	% 65.2-14	0		17 12 17 1	Carlo Ti			
Surrogate: 1-Chlorooctadecane	85.2	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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.

Celey D. Keene



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Notes and Definitions

SEP 2 7 2013

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.

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ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine



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SEP 2 7 2013

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Project Manager: D. Alkins	F	P.O.#:		COLUMN	O KECOESI	
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	State: NM Zip: 88.2 , O A	Atin:				anthonica de la constantia del constantia de la constantia de la constantia della constantia della constanti
46-8768	06	Address:				
10.100	33	City:				CLAUPIN C
bas	#1	State: Zip:				ACRECIAN
-		Phone #:				
Sampler Name: Robbie De 105/21	70	Fax #:				manu
	MATRIX	PRESERV, SAMPLING		4		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	TPH BTEX	Chloride		
1 1		8/2/3				
7 5- 1	6	トリー	139			
3 5-12	6-1-1		1 24:			
1 5-1 V	9		1 1			
55-20	7		1	1		
7 6-3 0'	9	7 7 2	202	1		
85-31	611	1	1 30			
95-32	6	1/1/2	107			
PLEASE NOTE: Liability and Currages. Cardinal's Rability and client's exclusive remody for any dains asking whether based in contract or lort, shall be limited to the amount poid by the client for the	any dains arising whether based in contract or	lort, shall be limited to the amount paid by the	the client for the			
analyses. At claims including those for negligence and any other cause whatsoever shall be deemed wahed unless made in willing and realyed by Cardinal which 30 days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential demages, including vallent inhusiation, business interruptions, loss of use, or loss of prefits incurred by client, its autoinflaires, affiliates or successors arbitrary of or related to the performance of services hereunder by Cardinal, respirites of whether such claim is based upon any of the above stated masons or otherwise.	 deemed waived unless made in writing and re ng without limitation, business interruptions, loss Cardinal, recardless of whether such claim is b 	ig and received by Cardinal within 30 days after completion of the ay tons, loss of use, or loss of profits incurred by client, its subsidiaries, daim is based upon any of the above stated rassons or otherwise.	npiellon of the applicable Its subsidiaries, or otherwise.			
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Sampler - UPS - Bus - Other:	520 Page 18					

† Cardinal cannot accept verbal changes. Please fax written changes to 505,393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



HOBBS OCD

SEP 27 2013

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RECEIVED

Project Manager: D. Adkins Company Name: Talon/LPE Phone #: 575-746-8768 city: Artesia Project Name: (a weren oil & but Sampler Name: Robbie De 105/21 Project Location: Project #: 70 6 83,00 0 Address: 408 W. Texas FOR LAB USE ONLY Lab I.D 20 5-12 0 7 3 14-5 5-70 6-50 house or provides the following of purposes the provides the performance of purposes the performance of 5-60 3-5 K 5-40 (575) 393-2326 FAX (575) 393-2476 5-62 5-6 Sample I.D AVE. Time: [2,2] Project Owner: Lamoron Old Fax #: 575-746-8906 State: N M Zip: 88.210 Frderal 6 Will #1 Received By: # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL er such claim is based upon any of the above stated re OIL SLUDGE City: State: Attr: OTHER: P.O. #: Fax #: Phone #: Address: Company: Talon/LPE ACID/BASE: 811170 ICE / COOL OTHER: Zip: DATE SAMPLING 21,14 2;35 2:25 2;22 2:38 2:19 TPH ☐ Yes BTEX O No Chloride Add'l Phone i ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

(Circle One)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-383-2076

Laboratories &

SEP 2 7 2013

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101 East Mariand, Hobbs, NM 88240

(575) 393 Company Name: Tq1Oh	Tglon/LPE	476	Висто		11		ANALYSIS	REQUEST	
Address: 4 0 8	W. Texas Ave.		Company: Talon/L	397					and the standards
Chy: Artesia		State: N N Zip: 88-210	Attn:			_			Colore M.
Phone #: 575-7	46-8768	Fax # 575-746-8906	Address:						4549.349
Project #: 70	0 6 83,00 0 Project Ow	Project Owner Cameron of G	City:				-		h fortiladityes
3	oil & bas	FEderal & Well # I	State: Zip:						
Project Location:			Phone #:		_	-	,		
Sampler Name: R	obbie Derosier		Fax #:		į Ši	_			
FOR LAB USE ONLY			PRESERV, SAMPLING	NG		ey			Taxable 1
Lab I.D.	Sample I.D.	RAB OR (C)O ONTAINERS DUNDWATER STEWATER L	HER: D/BASE: /COOL HER:	PH	TEX	ulorid			
6	-8 or		1 8/2/13	2:51	1	1			
5 46	78-	6 1 /	1 8/2/13	2:56	1	7			
05	0 6-9	6	1 8/2/13	-	1	1			
84	9-91	9	CARA	21.58					
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† Cardinal cannot accept verbal changes. Please fax written changes to 595-393-2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



August 26, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL 6 WELL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/21/13 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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SEP 27 2013

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

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Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

HOBBS OCD

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

SFP 27 2013

(575) 745-8905 Fax To: RECEIVED

Received: Reported: 08/21/2013 08/26/2013 Sampling Date: 08/20/2013

Project Name:

FEDERAL 6 WELL #1

Sampling Type: Soil Sampling Condition: Cool & Intact

Project Number:

701683.001.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-1 6' (H301996-01)

Chloride, SM4500CI-B

Analyzed By: AP

Analyte

Result Reporting Limit 1230 16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 08/26/2013

Analyzed

Method Blank ND

% Recovery

True Value QC

Qualifier

Chloride

400

100

400

RPD

7.69

RPD

7.69

RPD

7.69

Sample ID: S-1 8' (H301996-02)

Analyte

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery

True Value QC

Chloride

Chloride

Result 1090

Result

1440

16.0 08/26/2013 ND

400

100

400

Qualifier

Sample ID: S-1 10' REFUSAL (H301996-03)

Chloride, SM4500CI-B

Analyzed By: AP

Analyzed 08/26/2013 Method Blank ND

BS 400 % Recovery

100

True Value QC

400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

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SEP 27 2013

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ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Laboratories

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SEP 2 7 2013

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ompany Name: Talon // PE		B)///70	ANALYSIS REQUEST	ST
7		P.O. #:		
W. Texa		Company: Talon/LPE		
State: NM	0/288 :diz	Attn:		
46-8768	Fax #: 575-746-8905:	Address:		•
0.0	Project Owner: (Ameron OEL	City:		
me: Federal 6#	•	State: Zip:		
		Phone #:		
sampler Name: 5 holden Hitchcock				
	MATRIX	ESERV SAMPLING	-	
Lab I.D. Sample I.D.	B OR (C)OMP. ITAINERS UNDWATER EWATER	R: BASE: COOL R:	hlorid	
4301976	# CON	OTHER ACID/B ICE / CO OTHER DATE TIME	<i>C.</i>	
1 5-16		1 8-20-13 3		
15-1	5	_		
3 5-110' refusal	611	~		
and client's ex other cause w	any claim arising whether based in control desmed waived unless made in writing at g without limitation, business interruptions of whother such claim	et or tort, shall be limited to the amount paid by the client for II to received by Cardinal within 30 days after compaision of the loss of tase, or loss of profits incurred by client, its subsidiaria is based to tase, or loss of the above statud research of the control in the control of	ve applicable ss,	
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telinquished By:	Received By:	, Ware		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Infact Cool Mes Tes	CHECKED BY:		

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