

RECEIVED
AUG 1 3 2012
NMOCD ARTESIA

AMARILLO 92I North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622 August 8, 2012

ARTESIA

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

408 West Texas Ave Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

Subject: Remediation and Closure Report

AUSTIN

Devon Energy

9II West Anderson Lane Suite 202 Austin, Texas 78757 Hackberry 18 Federal No. 1 API # 30-015-29780 2RP-1042

Phone 5I2.989.3428 Fax 5I2.989.3487

Dear Mr. Bratcher,

HOBBS

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Hackberry 18 Federal No. 1. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

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

#### **Background Information**

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2I33 Fax 432.522 2I80

The Hackberry 18 Federal No. 1 is located approximately nineteen (19) miles southeast of Artesia, New Mexico. The legal location for the site is Section 18, Township 19 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.654948 North and -103.906560 West.

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 Services, the soil in this area is made up of Berino loamy fine sand complex with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of loamy alluvium and eolian sands which includes silty soils under lain by clay loam and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates there is not any water well data within a 4,000 meter radius of this location. The referenced groundwater data is presented in Appendix I.

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232

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

ENVIRONMENTAL CONSULTING ENGINEERING

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

DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

#### **Incident Description**

On February 9, 2012 a lease operator discovered a release of 218 barrels of oil and an unknown amount of produced water. The release was caused by a downhole communication issue between the Hackberry 18 Federal No. 1 well and the Arcturus 18 Federal Com No. 4H well that was undergoing hydraulic fracture stimulation. The Hackberry 18 Federal No.1 well was isolated to stop the flow of mixed fluids. A vacuum truck was immediately called to the location and recovered 103 barrels of oil and 220 barrels of produced water. A fence was subsequently erected around the release area located south of the tank battery which measured approximately 200-feet long by 350-feet wide.

#### **Remedial Actions**

On April 3, 2011 Talon personnel mobilized to the site to begin excavation of the impacted areas in accordance with the approved work plan. The impacted soil within the areas of the release were excavated and transported to a NMOCD approved solid waste disposal facility, CRI, pursuant to the work plan. The excavated areas were left open until approval to backfill was obtained from the BLM.

On April 12, 2012 Talon personnel mobilized to the site to begin closure soil sampling activities on the bottom and sidewalls of the excavation per the BLM requirements. Grab soil samples were collected and submitted for laboratory analysis. The excavation was expanded and then re-sampled on April 27, 2012. The excavation was again re-sampled on May 21, 2012, based upon additional laboratory results.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

#### **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

April 24, 2012

Sample, Location	<u>BTEX</u>	<u>TPH</u>
S-4, Bottom ROW 2'	<0.150	24.3 (mg/kg)
S-5, East wall	13.31	1804
S-6, West wall	<0.150	<10
S-7, North wall	0.728	89.3
S-8, South wall	<0.150	<10

Sample, Location	<u>BTEX</u>	Chlorides	<u>TPH</u>
S-9, Bottom 1'	7.746	208	1796 mg/kg
S-10, North sidewall	< 0.150	112	31.2
S-11, South sidewall	< 0.150	<16	<10
S-12, Bottom 1'	1.671	48	2140
S-13, West sidewall	0:178	32	25.7
S-14, East sidewall	1.976	<16	22.3
S-15, Bottom 1'	0.446	80	1930
S-16, West sidewall	0.37	32	13.1
S-17, East sidewall	0.065	<16	18.5
S-18, Bottom 1'	0.397	<16	13.8
S-19, West wall	0.424	32	2860
S-20, East wall	0.090	<16	873
S-21, Bottom 1'	4.273	<16	1303.9
S-22, West wall	1.483	<16	19.9
S-23, East wall	0.57	<16	<10
S-24, Bottom 1'	13.665	240	8626
S-25, South sidewall Bttry	< 0.150	176	2750
S-26, East sidewall Bttry	< 0.150	96	26.7
S-27, North sidewall Bttry	< 0.150	48	17
S-28, West sidewall Bttry	< 0.150	80	242
S-29, Bottom HT 0.5'	< 0.150	4400	<10
S-30, Bottom Location 0.5'	< 0.150	176	23.2
S-31, Bttm off Location 0.5'	< 0.150	<16	<10
S-32, Bttm off Location 0.5'	< 0.150	128	<10
S-33, West sidewall off loc	< 0.150	80	<10
S-34, East sidewall off loc	< 0.150	<16	<10
S-35, Bttm off Location 1'	< 0.150	352	<10
S-36, South wall	< 0.150	208	<10
S-37, North wall	< 0.150	<16	<10
S-38, Bottom 1'	< 0.150	224	<10
S-39, North wall	< 0.150	<16	<10
S-40, South wall	< 0.150	<16	<10
S-41, Bottom 1'	< 0.150	80	<10
S-42, North wall	< 0.150	32	<10
S-43, South wall	< 0.150	256	<10
S-44, West wall	< 0.150	1090	<10

May 23, 2012

Sample, Location	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH</u>
S-45, Bottom 2'	< 0.150		<10
S-46, Bttm Heater Treater 0.8'		224	
S-47, West wall		<16	

#### -- Analyte Not Tested

Based on this site's ranking, the action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. Chloride cleanup levels are considered to be 1,000 mg/kg.

#### **Summary and Conclusions**

- The impacted soil from this release was excavated to a depth of 0.5-2.0 feet deep. The excavated soil was transported to a NMOCD approved solid waste disposal facility.
- On June, 2012 the BLM granted approval of the confirmation samples and the excavated areas were backfilled to grade using new material transported from a local borrow pit. The areas were contoured to match the existing terrain and seeded using a 50/50 mix of BLM No. 2 and No. 4.
- Based on the depth to groundwater and the remedial actions implemented, it is unlikely that the impacts identified from this release will pose a threat to groundwater.

#### Closure

On behalf of Devon Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

Mike Stubblefield

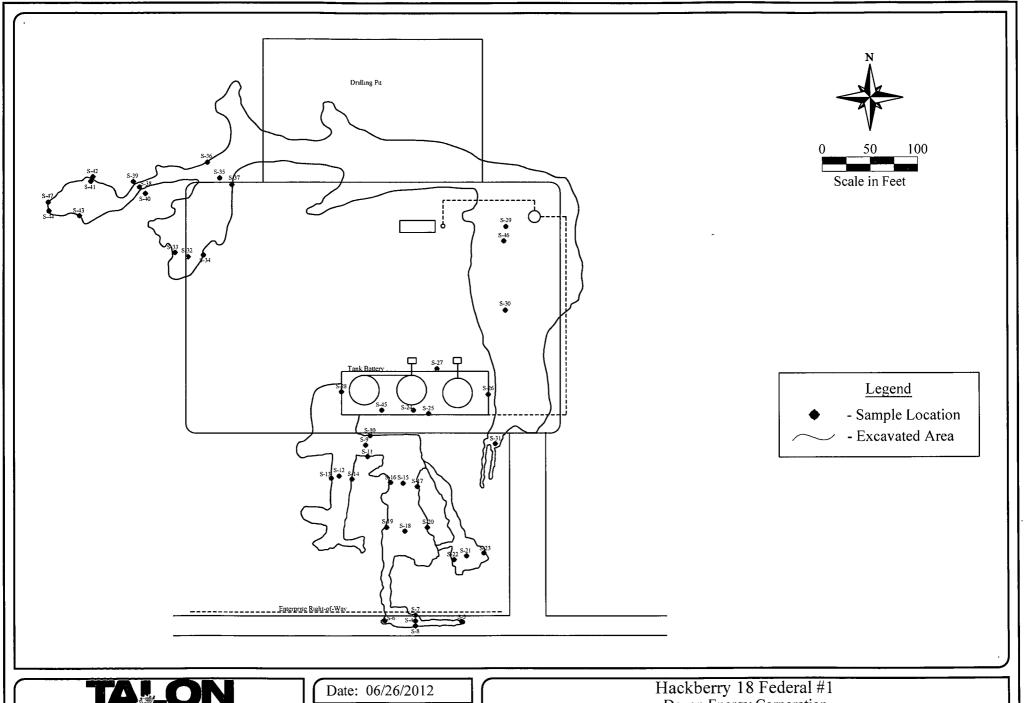
mæsstublefield

Project Manager

David J. Adkins

District Manager

#### SITE MAP



TALON LIPE

Scale: 1" = 100'

Drawn By: TJS

Hackberry 18 Federal #1
Devon Energy Corporation
Eddy County, New Mexico
Figure 1 - Site Plan

# APPENDIX I GROUNDWATER DATA SEEDING LABELS



### 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)

2 4 16 19S 31E

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Depth Depth Water Well Water Column Y Distance

**POD Number** 

CP 00829

Code Subbasin County 64 16 4 Sec Tws Rng

3614009\* 606165

120 3358

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 602851

Northing (Y): 3613465

Radius: 4000

\*UTM location was derived from PLSS - see Help

Curtis & Curtis Seed 4500 N Prince Clovis NM 88101 Phone: 575-762-4759

Talon Drilling LP

6 Acre 50% BLM #2 and 50% BLM \$4 Mix
Broadcast Rate
6 - 1 Acre Bags @ 27.70 Bulk Pounds
Job Devon Hackberry 18 Federal #1
700794025.01 0-18-195-31E

M-10929

Dropseed :	Origin Texas	Purity 7.76%	Germ 83.00%	Dormant 10 00%		Test Date 03/12	Total PLS Pounds 12 00
dward	Texas	11.77%	92.00%	0 00%	92.00%	04/12	18.00
Bluestem us Certified	Washington	18.80%	96.00%	0.00%	96 00%(TZ)	02/12	30 00
ıś	Oregon	7 60%	95 00%	0.00%	95 00%	11/11	12 00
Sacaton	New Mexico	3 72%	14 00%	83 00%	97.00%	03/12	6.00
7ing Saltbush	New Mexico	30 09%	34.00%	26.00%	60 00%	01/12	30 00

03.79% rop :ed 00 16% atter: 16.30%

There Is 6 Bags For This Mix This Bag Weighs 27.70 Bulk Pounds Use This Bag For 1 Acres

Total Bulk Pounds 166

&'Curtis Seed Prince. NM 88101 5.75-762-4759

> Talon Drilling LP 6 Acre 50% BLM #2 and 50% BLM \$4 Mix Broadcast Rate 6-1 Acre Bags @ 27 70 Bulk Pounds Jub: Devon Hackberry 18 Federal #1 0-18-195-31E

29 Germ & Test Total PLS Purity Pounds 12 00 , 1 Dormant Germ 83 00% ed 92 00% 04/12 (18 00 Texas 11.77% 18.80%), 96.00% 0 00 00 36 00 4(7 Z) 07 A 2 ; 30.00 2 ,Waihington em rtified Oregon 12 00 95 00% 0.00% 95.00% 7.60% {83.00% 3.72% ·\$7 00% 03/12 New Mexico 14 00% on 30 09% 01/12 30 00 34.00% 26 00% 60 00% Saltbush New Mexico

03 79% 00 16% r 16 30%

There Is 6 Bags For This Mix This Bag Weighs 27.70 Bulk Pounds Use This Bag For 1 Acres Total Bulk Pounds: 166

Curtis & Curtis Seed 4500 N Prince Clovis, NM 88101 Phone. 575-762-4759

> Talon Drilling LP
> 6 Acre 50% BLM #2 and 50% BLM \$4 Mix
> Broadcast Rate
> 6 -1 Acre Bags @ 27.70 Bulk Pounds
> Job Devon Hackberry 18 Federal #1 700,794,025 01 0-18-195-31E

Lot# M-10929

	·• · e	•	ŧ	. 1				
Item	Origin	Purity	Germ	Dormant	Germ & Dormant		Total PLS	
Sand Dropseed VNS,	Texas .	7 76%	\$3.00%	10 00%	93.00%	03/12	Pounds 12.00	·
Sand Bluestem Woodward	Texas	11 77%	92 00%	0.00%	92 00%	04/12	18 00	
Little Bluestem Aldous Certified	Washington	18 80%	96.00%	0.00%	96 00%(†Z)	02/12	30 00	
Coreopsis Plains	Oregon	7 60%	95 00%	0.00%	95.00%	11/11	12 00	
Alkali Sacaton VNS	New Mexico	3 72%	14 00%	83 00%	97 00%	03/12	6 00	
Four Wing Saltbitch VNS	New Mexico	30.09%	34 00%	26 00%	60 00%	01/12	30.00	

Other Crop 03 79% Weed Seed: 00.16% Inert Matter 16.30%

There Is 6 Bags For This Mix This Bag Weighs 27 70 Bulk Pounds Use This Bag For 1 Acres

Total Bulk Pounds. 166

Curtis & Curtis Seed 4500 N Prince Clovis, NM 88101 Phone 575-762-4759

> Talon Drilling LP 6 Acre 50% BLM #2 and 50% BLM \$4 Mix Broadcast Rate 6-1 Acre Bags @ 27.70 Bulk Pounds Job Devon Hackberry 18 Federal #1 700794.025 01 0-18-195-31E

Lot#: M-10929

<u>Ite</u> m	Origin	Purity	Germ	Dormant	Germ & Dormant	0.	Fotal PLS Pounds
Sand Dropseed VNS	Texas	7 76%	83.00%	10 00%	93,00%	03/12	12 00
Sand Blue∢tem Woodward	Texas	11 77%	92 00%	0 00%	92 00%	04/12	18 00
Little Bluestem Aldous Certified	Washington	18.80%	96 00%	0.00%	96 00%(TZ)	02/12	30 00
Coreopsis Plains	Oregon	7 60%	95.00%	0 00%	95 00%	11/11	12 00
Alkalı Sacaton VNS	New Mexico	3 72%	1400%	83.00%	97 00%	03/12	6 00
Four Wing Saltbush VNS	New Mexico	30.09%	34 00%	26 00%	60 00%	01/12	30 00

Other Ct op Weed Seed: 03 79% 00 16% Inert Matter 16 30%

There Is 6 Bags For This Mix This Bag Weighs 27.70 Bulk Pounds Use This Bag For 1 Acres

Total Bulk Pounds 166

Cultus & Cultus SE ds 4810 N Print 19 Clovis NM & 101, 32 Phone \$75-762

Fal. Drilling LP
6 Acre 509: BLNa #2-and 50% BLM \$4 Mix
5 Bi badcast Rate
6 - 1 Acre Bags @ 27 70 Bulk Pounds
Job: Devon Hackberry 18 Federal #1
700794025.01
0-18-195-31E

#### . Lot# M-10929

,,					Germ &	Test T	otal PLS	
Item	Origin	Purity	Germ	Dormants.	Dormant_	Date	Pounds_	
Salid Dropseed	Texas	7.76%	83 00%	10.00%	93.00%	03/12	12 00	
Sand Binestern	Texas	11.77%	92 00%	- 0 00%	92 00%	04/12	18.00	
	Washington	18 80%	96.00%	0 00%	96 00%(TZ)	02/12	30 00	
Alichice ined	. Oregon	7 60%	9 <del>\$</del> 00%	0 00%	95 00%	11/11	12 00	
lkali Space	New Mexico	3 72%	14 00%	83.00%	97.00%	03/12	6 00	
Foul West Curbush	New Mex co	30 0995	34 00%	26.00%	60.00%	01/12	30 00	

Other Grop 03.5% Gweef Seed: 00.16% Spri Matter: 16.30%

There Is 6 Bags For This Mix This Bag Weighs 27 70 Bulk Pounds Use This Bag For 1 Acres Total Bulk Pounds: 166

Curtis & Curtis Sceds, 4500 W. Francel, Cigvis, WM 88101 (1) Phone: 575-762-4759

Taion Drilling LP
6 Acre 50% BLM #2 and 50% BLM \$4 Mix
Broadcast Rate
6 - 1 Acre Bags @ 27 70 Bulk Pounds
Job: Deyon Hackberry 18 Federal #1
700794025 01
0-18-195-31E

#### Lut# M-10929

); ·					Germ &	Test '	Total PLS
Item*	Origin -	~ Purity.	Germ	Dormant	Dormant	Date	Pounds
Sand Dropseed	Texas	7.76%	83 00%	10 00%	93.00%	03/12	12 00
VNS* Salid Bluestem Woodward	Texaș	11 77%	92.00%	0.00%	92.00%	04/12	. 18 00
Little Bluestem Aldous Certified	Washington	18.80%	96.00%	0.00%	96 00%(TZ)	02/12	30 00
Coreopsis Plains	.Oregon ^	7 60%	90,00%	0 00%	95.00%	11/11	12.00
Alkalı Sacaton VNS	New Mexico	3:72%	14.00%	<b>183 00%</b>	97.00%	03/12	6 00
Four Wing Saltbush VNS	New Mexico	30 09% (	34 00%	26.00%	60.00%	01/12	30 00 .

Other Crop: 03 79% Weed Seed: 00.16% Inert Matter: 16.30% There Is 6 Bus For This Mix Total Bu This Bag Weigns 27.70 Bulk Pounds Use This Bag For 1 Acres

Total Bulk Pounds 166

## APPENDIX II LABORATORY RESULTS



April 24, 2012

MIKE STUBBLEFIELD
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: HACKBERRY 18 FED. NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 12:34.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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. Keene

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



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

Received:

04/12/2012

Sampling Date:

04/11/2012

Reported:

04/24/2012

Soil

Sampling Type:

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-4 2' BOTTOM R-O-W (H200847-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP		4.7.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate 4-Bromofluorobenzene (PIL	102 9	% 64 4-13	4				×		
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	24.3	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate. 1-Chlorooctane	808	% 55 5-15	4	······································					
Surrogate 1-Chlorooctadecane	82 6	% 57.6-15							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE Lability 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 waved 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 ansing 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 Laboratones

Celeg D. Keine



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

Fax To:

Received:

04/12/2012

Sampling Date:

04/11/2012

Reported:

04/24/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: 700794.025.01

SEC.18-T19S-R31E

#### Sample ID: S-5 EAST WALL (H200847-02)

BTEX 8021B	mg/	kg.	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	1.47	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	3.35	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	8.49	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate 4-Bromofluorobenzene (PIL	128 %	64 4-13	4						
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	154	10.0	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	1650	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate 1-Chlorooctane	95.0	% 55.5-15	4			•			
Surrogate 1-Chlorooctadecane	102 9	% 57 6-15	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and PLEASE NOTE Labority afful belinges California industry and united sections of the company of the control of th 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 Laboratones.

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



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

Received: Reported: 04/12/2012

04/24/2012

HACKBERRY 18 FED. NO. 1

Project Number:

Project Name:

700794.025.01

Project Location:

SEC.18-T19S-R31E

Sampling Date:

04/11/2012

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

#### Sample ID: S-6 WEST WALL (H200847-03)

BTEX 8021B	mg/	'kg	Analyze	d By: AP			<u>-</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate. 4-Bromofluorobenzene (PIL	103 9	% 64 4-13	4						
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate 1-Chlorooctane	79 7	% 55 5-15	:4		,				
Surrogate. 1-Chlorooctadecane	80 9	% 57 6-15	8						

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 clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved 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 clent, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to 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 Liboratories.

Celey D. Keine



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

Received:

04/12/2012

Sampling Date:

04/11/2012

Reported:

04/24/2012

Sampling Type:

Soil

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-7 NORTH WALL (H200847-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	0.159	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	0.152	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	0.417	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate 4-Bromofluorobenzene (PIL	106 9	% 64 4-13	4						
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	89.3	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate 1-Chlorooctane	84 9	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	86 4	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/12/2012

Sampling Date:

04/11/2012

Reported:

04/24/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact Jodi Henson

Project Number:

700794.025.01

Project Location:

SEC.18-T19S-R31E

Sample Received By:

#### Sample ID: S-8 SOUTH WALL (H200847-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	< 0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate 4-Bromofluorobenzene (PIL	102 9	64.4-13	4						
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate. 1-Chlorooctane	94 6	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	93.4	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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#### **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

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Celey D. Keine



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

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

Company Name	Talon/LPE								H	B	ľĿ	LTO						ANA	LYS	S RI	EQUE	ST			
Project Manage	m mike Stubble field				-			P.C	), #:													1			
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City:	Acteria State: NM	Zip	: {	38:	210			Att	n:								1		1		1			!	
Phone #:	595-441.7254 Fax#:							-	dres	s:		<u>.</u>										1	İ	1	
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Project Name:	Hackberry 18 Fed. No. 1					, 	_	Sta			z	ip:													
Project Locatio	n: sec 18-4195-R31F							Pho	one i	<b>#</b> :						İ	1	Ì	1	l			ĺ		
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



May 04, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 18 FED. NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 04/30/12 11:32.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited 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.

Celeg D. Keene

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



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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-9 BOTTOM 1' BGS (H200980-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND ,	1.05	105	1.00	8.37	
Toluene*	0.226	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	1.87	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	5.65	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	95.3	% 61 3-14	2						
Surrogate: Toluene-d8	97 0	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	137	% 65.7-14	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/02/2012	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	106	10.0	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	1690	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	148	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	150	% 57 6-15	8						

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\*=Accredited Analyte

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Celey D. Keine



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-10 NORTHSIDE WALL (H200980-02)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	92 4	% 61.3-14	22						
Surrogate. Toluene-d8	101	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	98.2	% 65 7-14	11						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	31.2	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	128	% 55 5-15	i4						
Surrogate 1-Chlorooctadecane	131	% 57.6-15	18						

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\*=Accredited Analyte

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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: 700794.025.01

SEC.18-T19S-R31E

Sample ID: S-11 SOUTHSIDE WALL (H200980-03)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	90 4	% 61.3-14	2			· · · · · · · · · · · · · · · · · · ·			
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate 4-Bromofluorobenzene	93 8	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	<10.0	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	141	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	145	% 57 6-15	8						

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\*=Accredited Analyte

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Celey D. Keine



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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type: Sampling Condition:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1 700794.025.01

Sample Received By:

Jodi Henson

Project Number: Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-12 BOTTOM 1' BGS (H200980-04)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.089	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.663	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.196	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.723	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	90 4	% 61 3-14	2						
Surrogate. Toluene-d8	101	% 71 3-12	9						
Surrogate: 4-Bromofluorobenzene	100	% 65 7-14	1						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	2140	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate: 1-Chlorooctane	134	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	167	% 57 6-15	8						

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\*=Accredited Analyte

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Celey D. Keine



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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number: Project Location: 700794.025.01

SEC.18-T19S-R31E

Sample Received By:

Jodi Henson

#### Sample ID: S-13 WESTSIDE WALL (H200980-05)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.178	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	89 4	% 61.3-14	2						
Surrogate: Toluene-d8	100 9	% 71.3-12	9						
Surrogate 4-Bromofluorobenzene	98 2	% 65 7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	25.7	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate: 1-Chlorooctane	117 5	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	115	% 57.6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Soil

05/04/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-14 EASTSIDE WALL (H200980-06)

BTEX 8260B	mg	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.163	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.937	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.204	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.672	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate: Dibromofluoromethane	88 9	% 61.3-14	2						
Surrogate: Toluene-d8	99 1	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99 3	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	22.3	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	136	% 55 5-15	4						
Surrogate, 1-Chlorooctadecane	141	% 57 6-15	0						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

HACKBERRY 18 FED. NO. 1 700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-15 BOTTOM 1' BGS (H200980-07)

BTEX 8260B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.190	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.077	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.179	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	86 5	% 61 3-14	2						
Surrogate. Toluene-d8	98 4	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	97 6	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	1930	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	122 :	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	<i>i53</i> :	% 57 6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Soil

05/04/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-16 WESTSIDE WALL (H200980-08)

BTEX 8260B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.058	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.260	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.052	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	87 6	% 61.3-14	2						
Surrogate Toluene-d8	99 6	% 71 3-12	9						
Surrogate. 4-Bromofluorobenzene	93 3	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	13.1	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	128	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	123	% 57 6-15	8						

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Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1 700794.025.01

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

SEC.18-T19S-R31E

Sample ID: S-17 EASTSIDE WALL (H200980-09)

BTEX 8260B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.065	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate: Dibromofluoromethane	87 4	% 61 3-14	2						
Surrogate: Toluene-d8	99.4	% 71 3-12	9						
Surrogate. 4-Bromofluorobenzene	93 0	% 65 7-14	I						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	18.5	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate: 1-Chlorooctane	135	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	138	% 57.6-15	8						

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Received:

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Sampling Date:

04/27/2012

Reported:

Sampling Type:

05/04/2012

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

700794.025.01

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-18 BOTTOM 1' BGS (H200980-10)

BTEX 8260B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.143	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.060	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.194	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	87 3	% 61.3-14	2						
Surrogate: Toluene-d8	97 7	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	94.6	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	13.8	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate. 1-Chlorooctane	142	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	139	% 57 6-15	8						

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Received:

04/30/2012

05/04/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-19 WESTWALL (H200980-11)

BTEX 8260B	mg/kg		Analyze	Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.121	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.072	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.231	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate: Dibromofluoromethane	89.1 % 61 3-14		2						
Surrogate: Toluene-d8	98 5 9	% 71 3-12	9						
Surrogate: 4-Bromofluorobenzene	98 6 9	% 65 7-14	1						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	2860	10.0	05/02/2012	ND	208	104	200	8.14	
Surrogate, 1-Chlorooctane	168 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	153 %	% 57.6-15	8						

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Received:

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Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

Sample ID: S-20 EASTWALL (H200980-12)

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.090	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	86.7	% 61 3-14	2						
Surrogate. Toluene-d8	100	% 71 3-12	9						
Surrogate. 4-Bromofluorobenzene	98 6	% 65.7-14	1						
Chloride, SM4500CI-8	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						<del>.</del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	873	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	95 0	% 55.5-15	·4						
Surrogate: 1-Chlorooctadecane	99 6	% 57 6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

DTEV COCOD

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Name: Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

Sample ID: S-21 BOTTOM 1' BGS (H200980-13)

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.311	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.882	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	3.08	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	89 1	% 61 3-14	2						
Surrogate. Toluene-d8	95 7	% 71 3-12	9						
Surrogate. 4-Bromofluorobenzene	118	% 65 7-14	I						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	43.9	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	1260	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	96 1	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	105	% 57 6-15	8						

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

ر . دمنا

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

Sample ID: S-22 WESTWALL (H200980-14)

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.108	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.550	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.268	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.557	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	89 0	% 61.3-14	2						harden-0000
Surrogate: Toluene-d8	98.6	% 71 3-12	9						
Surrogate, 4-Bromofluorobenzene	97 9	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	, ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	19.9	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	82.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	75.1	% 57.6-15	8						

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MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

04/30/2012

Reported: 05/04/2012

Project Name: HACKBERRY 18 FED. NO. 1

Project Number: 700794.025.01
Project Location: SEC.18-T19S-R31E

Sampling Date: 04/27/2012 Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

#### Sample ID: S-23 EASTWALL (H200980-15)

Received:

BTEV 9260B

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	0.196	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	0.093	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	0.281	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate: Dibromofluoromethane	87.2 % 61.3-14		2						
Surrogate: Toluene-d8	98.5	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	93 9	% 65 7-14	1						
Chloride, SM4500CI-B	mg,	kg	Analyzed By: HM					1 II .	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	80 7	% 55 5-15	4			·			
Surrogate. 1-Chlorooctadecane	82 3	% 57.6-15	8						

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Fax To:

(575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Soil

05/04/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: 700794.025.01

SEC.18-T19S-R31E

#### Sample ID: S-24 BOTTOM 1' BGS BATT. (H200980-16)

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.185	0.100	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	3.62	0.100	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	2.96	0.100	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	6.90	0.300	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate. Dibromofluoromethane	91.6	% 61 3-14	2						
Surrogate. Toluene-d8	101	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	115	% 65 7-14	I						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/02/2012	ND	400	100	400	0.00	
ТРН 8015М	mg	/kg	Analyze	Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	216	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	8410	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate 1-Chlorooctane	128	% 55.5-15	i4						
Surrogate. 1-Chlorooctadecane	252	% 57.6-15	8						

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Received:

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Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number: Project Location:

700794.025.01

SEC.18-T19S-R31E

Sample Received By:

Jodi Henson

#### Sample ID: S-25 SOUTHSIDE WALL BATT. (H200980-17)

BTEX 8260B	mg/	/kg	Analyze	Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	878	% 61.3-14	2						
Surrogate. Toluene-d8	98 0	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98 4	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	2750	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	86 7	% 55 5-15	4	· · · · · ·					
Surrogate: 1-Chlorooctadecane	129	% 57 6-15	8						

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Received:

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Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-26 EASTSIDE WALL BATT. (H200980-18)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	< 0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	90 0	% 61.3-14	2						
Surrogate: Toluene-d8	99 2	% 71 3-12	9						
Surrogate: 4-Bromofluorobenzene	92 7	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	26.7	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	80 9	% 55 5-15	:4						
Surrogate. 1-Chlorooctadecane	82.3	% 57 6-15	8						

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04/27/2012

Reported:

05/04/2012

Sampling Type:

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

### Sample ID: S-27 NORTHSIDE WALL BATT. (H200980-19)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	87 2 :	% 61.3-14	2						
Surrogate. Toluene-d8	979	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	91.6	% 65 7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			7117-7		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	17.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	83 7 :	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	869	% 57 6-15	8						

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04/27/2012

Reported:

05/04/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

### Sample ID: S-28 WESTSIDE WALL BATT. (H200980-20)

BTEX 8260B	mg,	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2012	ND	1.05	105	1.00	8.37	
Toluene*	<0.050	0.050	05/03/2012	ND	1.00	100	1.00	5.54	
Ethylbenzene*	<0.050	0.050	05/03/2012	ND	0.989	98.9	1.00	6.32	
Total Xylenes*	<0.150	0.150	05/03/2012	ND	2.99	99.8	3.00	7.09	
Surrogate Dibromofluoromethane	87 7	% 61.3-14	2						
Surrogate Toluene-d8	98 3	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	90 5	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	242	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	78 9	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	818	% 57 6-15	8						

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Sampling Date:

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Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

### Sample ID: S-29 BTTM .5' BGS HT (H200980-21)

BTEX 8260B	mg/kg		Analyze	Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate. Dibromofluoromethane	90.6	% 61 3-14	2						
Surrogate. Toluene-d8	97.8	% 71 3-12	9						
Surrogate. 4-Bromofluorobenzene	898	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	85.4	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	82.9	% 57.6-15	8						

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Received:

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Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

700794.025.01

Project Location: SEC.18-T19S-R31E

#### Sample ID: S-30 BTTM .5' BGS LOC. (H200980-22)

BTEX 8260B	mg/kg		Analyze	Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate: Dibromofluoromethâne	87 7	% 61 3-14	2					,	1713
Surrogate: Toluene-d8	95 6	% 71 3-12	9						
Surrogate: 4-Bromofluorobenzene	88 7	% 65 7-14	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	23.2	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	85 9	% 55 5-15	:4						
Surrogate. 1-Chlorooctadecane	83 8	% 57 6-15	8						

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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

Cool & Intact

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number: Project Location: 700794.025.01

SEC.18-T19S-R31E

Sample Received By:

Jodi Henson

### Sample ID: S-31 BTTM .5' BGS OFF LOC. (H200980-23)

BTEX 8260B	mg,	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	< 0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	< 0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	87 8	% 61 3-14	2						
Surrogate. Toluene-d8	97 5	% 71.3-12	9						
Surrogate 4-Bromofluorobenzene	93 4	% 65 7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	80 8	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	77 4	% 57 6-15	8						

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Fax To:

(575) 745-8905

Analyzed By CMC

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

DTEV ORCOD

05/04/2012

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

### Sample ID: S-32 BTTM .5' BGS OFF LOC. (H200980-24)

TEX 8260B	mg/	mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	87.8	% 61.3-14	12						
Surrogate. Toluene-d8	98.3	% 71.3-12	29						
Surrogate. 4-Bromofluorobenzene	908	% 65 7-14	11						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	87 5	% 55 5-15	54						
Surrogate. 1-Chlorooctadecane	88 7 :	% 57 6-15	58						
<u> </u>									

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

#### Sample ID: S-33 WESTSIDE WALL OFF LOC. (H200980-25)

BTEX 8260B	mg/	kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	88 4	% 61 3-14	2						
Surrogate: Toluene-d8	97.7	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	90 5	% 65 7-14	1						
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	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	89 6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	93 1	% 57 6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number: Project Location: 700794.025.01 SEC.18-T19S-R31E

Sample Received By:

Jodi Henson

### Sample ID: S-34 EASTSIDE WALL OFF LOC. (H200980-26)

BTEX 8260B	mg/	kg	Analyze	Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate: Dibromofluoromethane	88 2	% 61 3-14	2						*****
Surrogate. Toluene-d8	98 3	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	914	% 65 7-14	1						
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	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200 ·	2.53	
Surrogate. 1-Chlorooctane	90 0	% 55 5-15	4					<del></del>	
Surrogate. 1-Chlorooctadecane	96 3	% 57 6-15	8						

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Fax To:

(575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Sampling Condition:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-35 BTTM 1'BGS OFF LOC. (H200980-27)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate: Dibromofluoromethane	89 5	% 61 3-14	2						
Surrogate: Toluene-d8	97 6	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	91 3	% 65 7-14	1						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	83 9	% 55 5-15	:4						
Surrogate 1-Chlorooctadecane	82 4	% 57 6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

700794.025.01

Project Location: SEC.18-T19S-R31E

# Sample ID: S-36 SOUTH WALL (H200980-28)

BTEX 8260B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate: Dibromofluoromethane	87.2	% 61.3-14	2						
Surrogate: Toluene-d8	986	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	923	% 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	208	16.0	05/02/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate. 1-Chlorooctane	95 8	% 55 5-15	·4						
Surrogate. 1-Chlorooctadecane	95.7	% 57 6-15	8						

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Received:

04/30/2012

05/04/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Project Location:

SEC.18-T19S-R31E

Jodi Henson

# Sample ID: S-37 NORTH WALL (H200980-29)

Analyte	mg,	/kg	Analyze	d By: CMS			. <u></u>		
Analyte			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	87 5	% 61.3-14	2						
Surrogate. Toluene-d8	99 0	% 71.3-12	9						
Surrogate. 4-Bromofluorobenzene	•		1						
Chloride, SM4500Cl-B			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate: 1-Chlorooctane	85 5	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	83 8	% 57.6-15	8						

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(575) 745-8905 Fax To:

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Soil

05/04/2012

Sampling Type:

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-38 BOTTOM 1' BGS (H200980-30)

BTEX 8260B	mg	kg	Analyze	d By: CMS					
Analyte	Analyte Result Reporting Lin < 0.050 0.050		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate. Dibromofluoromethane	86 9	% 61.3-14	2						
Surrogate. Toluene-d8	96.3	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	uorobenzene 90.0 % , 65 7-14								
Chloride, SM4500Cl-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	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	NĐ	216	108	200	2.53	
Surrogate: 1-Chlorooctane	83 7	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	84 9	% 57.6-15	8						

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Soil

05/04/2012

Sampling Type:

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

### Sample ID: S-39 NORTH WALL (H200980-31)

Analyte	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ИÐ	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	89 3	% 61.3-14	2						
Surrogate. Toluene-d8	97.9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	90.6	% 65 7-14	1						
Chloride, SM4500CI-B	,		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/03/2012	ND	204	102	200	4.85	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53	
Surrogate 1-Chlorooctane	89.7	% 55 5-15	·····						
Surrogate 1-Chlorooctadecane	93 3	% 57 6-15	8						

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

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Project Name:

DTEV 0360D

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-40 SOUTH WALL (H200980-32)

BTEX 8260B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	91.5	% 61 3-14	'2						
Surrogate: Toluene-d8	99.8	% 71 3-12	9						
arrogate. 4-Bromofluorobenzene 94 3 % 65.7-14 nloride, SM4500Cl-B mg/kg		11							
		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2012	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	05/03/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	
Surrogate 1-Chlorooctane	78 6	% 55.5-15	54						
Surrogate: 1-Chlorooctadecane	82 2	% 57 6-15	58						

Ameliand Divi CMC

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

DTEV 9260D

Cool & Intact

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

700794.025.01

Project Location:

SEC.18-T19S-R31E

Sample ID: S-41 BOTTOM 1' BGS (H200980-33)

Result < 0.050	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0
	0.050				75 (1665) 617	Truc Value QC	KFD	Qualifier
		05/04/2012	ND	1.17	117	1.00	1.09	
		05/04/2012	ND	1.12	112	1.00	2.31	
<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
rrogate Dibromofluoromethane 877% 61.3-14		2	•					
98 4 % 71 3-1.		9						
rrogate: 4-Bromofluorobenzene 89 8 % 65.7-1-		1						
oride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	05/02/2012	ND	400	100	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/03/2012	ND	192	96.2	200	1.55	
<10.0	10.0	05/03/2012	ND	213	106	200	3.82	
80 8	% 55.5-15	4						
83 9	% 57 6-15	8						
	<0.050 <0.150  87 7 98 4 89 8 mg/ Result 80.0 mg/ Result <10.0 <10.0	<0.050 0.050 <0.150 0.150  87 7 % 61.3-14 98 4 % 71 3-12 89 8 % 65.7-14 mg/kg  Result Reporting Limit 80.0 16.0 mg/kg  Result Reporting Limit <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyand By: CMS

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

Received: Reported: 04/30/2012

05/04/2012

HACKBERRY 18 FED. NO. 1

Project Name: Project Number:

700794.025.01

Project Location:

SEC.18-T19S-R31E

Sampling Date:

04/27/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

# Sample ID: S-42 NORTHWALL (H200980-34)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	86 4	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71 3-12	9						
Surrogate, 4-Bromofluorobenzene	omofluorobenzene 92 7 % 65 7-1		1						
Chloride, SM4500Cl-B	M4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2012	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	05/03/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	
Surrogate: 1-Chlorooctane	70 6	% 55 5-15	:4						
Surrogate 1-Chlorooctadecane	67 8	% 57 6-15	8						

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Fax To: (575) 745-8905

Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

05/04/2012

Sampling Type:

Soil

Reported.

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Name: Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-43 SOUTHWALL (H200980-35)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result Reporting Limit <0.050 0.050		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	88 4	% 61.3-14	2						
Surrogate. Toluene-d8	95 6	% 71.3-12	9						
rrogate. 4-Bromofluorobenzene 89 0 % 65 7-14		1							
Chloride, SM4500CI-B			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/02/2012	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	05/03/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	
Surrogate. 1-Chlorooctane	84 7	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	89 1	% 57 6-15	8				,		

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Received:

04/30/2012

Sampling Date:

04/27/2012

Reported:

Sampling Type:

Soil

05/04/2012

Project Name:

HACKBERRY 18 FED. NO. 1

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

Project Number:

700794.025.01

Project Location:

SEC.18-T19S-R31E

Sample ID: S-44 WESTWALL (H200980-36)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte Result Reporting Limit enzene* <0.050 0.050		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2012	ND	1.17	117	1.00	1.09	
Toluene*	<0.050	0.050	05/04/2012	ND	1.12	112	1.00	2.31	
Ethylbenzene*	<0.050	0.050	05/04/2012	ND	1.07	107	1.00	5.78	
Total Xylenes*	<0.150	0.150	05/04/2012	ND	3.22	107	3.00	6.72	
Surrogate Dibromofluoromethane	89.3	% 61 3-14	2			,			
Surrogate. Toluene-d8	99.1	% 71.3-12	9						
urrogate· 4-Bromofluorobenzene 93 0 % 65 7-14		1							
nloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/02/2012	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	05/03/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	
Surrogate: 1-Chlorooctane	83 3	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	88 9	% 57 6-15	:8						

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#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

1-4

Company Name	roject Manager: Mike Stubblefield						min	¥ŧ	2 4	BI	ŒŒ	10							ANA	LYS	S RE	QUE	ST			
Project Manage	T: Mike Stubblefield						F	.O. f	#:										į							
Address:	408 WHIT TOKES Ave.						c	omp	pan	y: 1	do	1/4	7								l					
City:	Actation State: NM	Zip:	8	8210	?		Α	ttn:				1								ı		1	İ			
Phone #:	575-441.7254 Fax#:						Α	ddre	ess	:													ĺ			
Project #:	700794.075.01 Project Owne	r:Deu	on ,	Enca	sy e	Grp.	o	ity:									1									
Project Name:	Hackberry 18 Frderal No.	1		7	7	7	s	tate	:		Zip	<b>o</b> :														
Project Locatio	n: sec. 18 - 419C-R31E						P	hon	e #:	:											1					
Sampler Name:	me stallfield						F	ax#	:										1							
FOR LAB USE ONLY	7		П		MA	RIX		PR	RESI	ERV.		SAMPI	LING				ب ا		1							
Lab I.D. 남2009왕0	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL	OTHER:		DATE		TIME	BOISM TPH	80218 BTEX				-						
-1	5.9 bottom 1 brs		П		1				1			27/201	2 10	9:23A	2	$\angle$										
7	5-10 Northeide wall		Ш	$\bot$	Ш			L	1		4/2	7/20/2	70	:25 A		/		1_				<u> </u>				
3	5.11 South side wall	Ш	Ш		Ш	_	┵	┸	Щ	$\perp$	4/3	יזסקרי	2 10:	'27 A				1_	<u> </u>	<u> </u>	ļ	<u> </u>			$\Box$	
4	2-15 Polline 1, ple	$\sqcup$	11		Ш	$\perp$	4	1_	Ц.	$\perp$		<u> </u>	1		4	_		1_	—	<u> </u>		<u> </u>				
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9,	5-14 Easteide mall 5-15 bottom 1' bet 5-16 Westeids woll	₩	H	_	-  -	_	+	╀	#	- 1	1/3	2/200	t lo:	£39 A		/	4	_		-	ļ	<del> </del>		$\vdash \vdash \mid$		
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$\frac{b}{a}$	5-16 Weitade wall	╂╌╂╴	╢	+	+	+		<del> </del>	╫	$\vdash\vdash$				:451			<del>                                     </del>	┈	+	-	<del> </del>	<del>                                     </del>				
in	6-13 Easterds wall 6-18 bottom 1 bes	╁┼	╫	+	+	$\dashv$	-	╁	H	$\vdash$	_	<u> </u>				$-\!\!\!/$		╀	+-	+	<del> </del>				$\longrightarrow$	
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rzemiyulanda D	7: Date:	Rece	214(	eg By	<b>/</b> •	- 11								none Kes		O Va		NO	Addi		IF;					

Relinquished By:	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'i Phone #:	
	4/30/2012	rod: N	٠ .	Fax Result:	☐ Yes	□ No	Add'i Fax #:	
masspilliel	Time: 32	Well see	won	REMARKS:				
Relinquished By:	Date:	Received By:						
İ	Time:							
0.11	L							•
Delivered By: (Circle One)		Sample Condition	T. 775					• • • •
Sampler - UPS - Bus - Other	-ند	O G Cool Intact  O G Yes Yes  No No	(Intribits)					



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

2.4

Company Name: Talos / LPE	BILLTO	ANALYSIS REQUEST
Project Manager: かんの / LPE	P.O. #:	
Address: 408 West Total Puc.	Company: Talon / LPE	
City: Ret cria State: d, M Zip: 88710	Attn:	
Phone #: (28.441.7214 Fax #:	Address:	
Project #: "\$00 ?94/.#25°.01 Project Owner:	City:	<u>.</u> ]
Project Name: Hackberry 18 Fel. No. 1	State: Zip:	
Project Location: Sec. 18 - 7195 - R31E	Phone #:	
Sampler Name: Mich Switcheld	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
#CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		3 BTET
Lab I.D. Sample I.D.	ا اسانیا ا	
	BAS SOO BAS	
#1009990 (G) Rab Or (C) ON TAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACIDIBASE: OTHER: OTHER: AMIL BAND ALDINGE	8002 B 1612   cl
11 5-17 Weg wall G 1 /	9 7 7 10:50 A	
12 520 Restaurall 6 1	1/25/2012 10:52 A	
13 5.21 potton 1' bss 5	4/27/2012 W:54 A	
14 r. 22 WIT WILL G	1 4/29/2019 W:SE A	
15 5:23 Easton 11 a /	/ 4/27/2017 10:59 A	
	1/2/2012 15:01 R	
10 5:24 bottom 1 bas bastery G	1 1/20/2017 11:03 A	
18 5-26 Eastside wall battery G	1 1/27/2012 11:02 A	
19 5:27 North cide wall battery a	11:11 A 1/20/2012 11:11 A	
205.78 Weitself wall battery G	4/27/2012 11:14 A	
PLEASE NOTE: Liability and Damages. Cordinal's liability and client's exclusive rightedy for any claim arising whether based in con- analyses. All claims including those for negligence and any other cause whatsoover shall be deemed walved unless made in writing service. In no event shall Cordinal be liable for incidental or consequential damages, including without limitation, business interruption.	and received by Cordinal within 30 days after completion of	the applicable
affiliates or successors atising out of or related to the performance of services hereunder by Cardinal, regardless of whether such of	im is based upon any of the above stated reasons or others.	ńsa.
	Phone Ro Fax Resu	ilt: 🗆 Yes 🗅 No Add'l Fax#:
Relinquished By:    Time 32   Column	ALUDOK FAX RESLA	S:
Relinquished By: Date: Regelved By:		
Time:		
Delivered By: (Circle One) Sample Con		
Sampler - UPS - Bus - Other:	(as Autitus)	



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

3-4

Company Name	ect Manager: Mille Fruklu Kield										B/I	ULTO		9				ANA	LYS	S RI	EQUE	ST			
Project Manage	or: Mille Grushlefield							Р.	0.#	<b>;</b>															
Address:	408 WOLT TOTAL AVE.							Co	mp	any	:1.	Los/LP	Ę												
City:	Arteria State: N.M.	Zip	: 8	82	10			Ati								l	1	1	1			ł			
Phone #:	(25-441-2214 Fax#:							Ad	ldre	ss:							•		1						
Project #:	100794.\$25.01 Project Owne	r;						Cit	tv:					1			1			1					
Project Name:	Hackberry 18 Fel. No. 1							1	ate:			Zip:		1		ĺ	1		ĺ		1			i /	
	n: 566. 18-7195 · 831E			_				-	one	#:			·····	1			1				1				
Sampler Name:									x #:					]			1	]		}					
FOR LAB USE ONLY	7,000	Т			NI.	TRI	(			EŞĒI	RV.	SAMPL	ING	1		🧓	:		1						
Tap I.D. Sample I.D. # CONTAINERS GROUNDWATER WASTEWATER SOIL								OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BUTO TAH	1318 81208	1									
21	5.79 hollow is 655 Hader Terroles	S	1			不						40/2012	11:39A				1								
83	5:30 bottom 5' bec Location	<	I									4/37/2in				/									
23	5.30 bottom 5' bes Location	9		77	/					/		4/20/ron	11:47 A		$\angle$					ļ		<u> </u>			
24	5.72 bottom . 5 668 Off Location	a	Ш	Ц	_/	1_					_	wast cety	11:53 A			/	ļ	ļ		↓	<u> </u>	ļ			
25	5.37 Westeid wall off Location	۲	Ш		_/_	1_							11:550						_j	<u> </u>	<del> </del>		<b> </b>		
26	6-34 Eastside wall off Location	ه	Ш	Ц	_/	1		Ш	Ш			4/20/202					<u> </u>	ļ	<u> </u>	<del> </del>	—	<u> </u>			
37	5.35 bottom 1 bys off location	a	Ш		_/	1	_					2100/12/14			/	1/	<u> </u>	┦—	-	ļ			<b>  </b>		
	S. St. Jour Jan J. S. S. S. S. S. S. S. S. S. S. S. S. S.	5_	Ш		_/	]_	_					2105/05/2	15:526		/_,		<u> </u>	<u> </u>	-	ļ	—		$\vdash$		
29	5-39 North wall	4	Ш	4	_/	_				4	_	אסק רצ אף			/_			ļ	ļ	_	ļ'	<b> </b>	<del>  </del>		
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analyses. All claims includi	ng those for negligence and any other cause whatsoover shall be desirable for incidental or consequental damages, including	teemed	walve	d unle	ss made	la writir	g and	recei	ved by	Cardi	inal wi	thin 30 days afte	r completion of th	na applicab	te										
affihates or successors orisi	ng out of or related to the performance of services hereunder by C													e		_									
Relinquished B	y: Date: 4/30/70/2	Re	çeiv	ed	Ву:.						Phone Res		□ Ye		No No		Phone Fax #:								
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Relinquished B	y: Date:	R	ceiv	ed	<u>ノ</u> ∃y:	-/	-	<u></u>		-	0 1														

Sample Condition
Cool Intact
Ves Ves
No No

Delivered By: (Circle One)

Sampler - UPS - Bus - Other



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

4.4.

Project Manager: Mills Stubble Rold									BILL TO					ANALYSIS REQUEST														
Project Manage	T: Mille Stubble field								P.O. #:							Г												
Address:	408 WOST TOTAL	Buc.							Company: Talos/LPE								1			l								
City:	Ritcia	State: N, M	Zip:	88	/5	0			Attn:							l					}							
Phone #:	175-441-7214	Fax #:							Address:									J				ĺ						
Project #: 100?94.425.01 Project Owner:								City:					•		1	ı			İ			İ						
Project Name: Hackberry 18 Fel. No. 1							Sta	te:		Z	ip:											1						
Project Location: 18. 7195 · R31K							Phone #:														1							
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33	5-41 bottom 1 bgs		9	Щ.	7				$\Box$		/				12:43 P			]_					<u> </u>		↓			
39	5-41 hottem 1 bgs 5-42 North mall 5-43 South mall 5-44 West pall		a	4	_	/	$\sqcup$		_	_	4				13:46	$\angle$			1	_				<u> </u>	ـــــــ			
35	5.43 South wall		9	41	_	/	_			4	4				1:02/	4	/	_		—l			-	<u> </u>				
36	5:44 West pall		<b>4</b>	4	_	$\bot\!$				4	4	14	1/20/20	n	1:07 8	/	_	12	4	_		<u> </u>		ļ	<del> </del>	ļ	$\vdash$	
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service. In no event shall C	ng those for negligence and any other cous ordinal be liable for incidental or conseque	ntal damages, including v	nthout II	mitotic	n, bus	iness in	terrupti	ons, lo	ss of	use, o	r loss o	of profits	ts incurred	by cli	ient, its subsidia:	ics,	ole											
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Relinquished By: \ Date: Received By:													- 1															

Sample Condition
Cool Intact
Yes Yes
No No

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other



July 02, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 18 FED. NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 05/21/12 16:20.

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 <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)

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



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/21/2012

Sampling Date:

05/21/2012

Reported:

07/02/2012

Sampling Type:

Soil

HACKBERRY 18 FED. NO. 1

Cool & Intact

Project Name: Project Number:

Sampling Condition: Sample Received By:

Project Location:

700794.025.01

SEC.18-T19S-R31E

Jodi Henson

# Sample ID: S-45 BOTTOM 2' BGS BATT (H201139-01)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2012	ND	1.89	94.6	2.00	17.6	
Toluene*	<0.050	0.050	05/22/2012	ND	1.99	99.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	05/22/2012	ND	2.00	99.8	2.00	16.9	
Total Xylenes*	<0.150	0.150	05/22/2012	ND	6.21	103	6.00	15.9	
Surrogate 4-Bromofluorobenzene (PIL	112 9	% 89 4-12	6						
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	05/22/2012	ND	186	92.9	200	4.00	
DRO >C10-C28	<10.0	10.0	05/22/2012	ND	187	93.6	200	6.08	
Surrogate: 1-Chlorooctane	83.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.2	% 63 6-15	1						

# Sample ID: S-46 BOTTOM 8" BGS HEATER TREAT (H201139-02)

Chloride, SM4500Cl-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	05/22/2012	ND	432	108	400	3.77	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remerty for any claim ansing, 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 warved 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. Keine



TALON LPE

MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

05/21/2012

Sampling Date:

05/21/2012

Reported:

07/02/2012

Sampling Type:

Soil

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.025.01

Sample Received By:

Jodi Henson

Project Location:

SEC.18-T19S-R31E

# Sample ID: S-47 WEST WALL (H201139-03)

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	05/22/2012	ND	432	108	400	3.77	

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 that, (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 cheri, it is report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **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 ansing, 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 claims whatsoever shall be deemed waved 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 Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This proproduced except in full with written approval of Cardinal Laboratoms.

Celey D. Keine



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

							麒	1	₽8.	LL TO	a (1.1%)		ANALYSIS REQUEST											
Project Manage	" mike Grobblefiel	d						P.C	O. #:															
Address:	408 West Total Auc.							Company: Talog/LPE														1		
City:	Rederia	State: MM	Zip	: 88	210	· • • • • • • • • • • • • • • • • • • •		Attn:													<b>l</b> 1	1		1
Phone #: 575-441-7254 Fax #:						Address:																. 1		
Project #: 100794.025.01 Project Owner: Devan Energy Grp.					City:					1									ı					
Project Name:	Hackberry 18 Fractal	No. 1				7		State: Zip:														İ		
Project Locatio	n: sec. 18! T195.R3	15						Ph	one	#:												l		
Sampler Name:	mile (State fall							Fa	x #:													ļ	1	
FOR LAB USE ONLY	, , , , , , , , , , , , , , , , , , ,					MATI	RIX	_	PRE	SER	SAMPL	NG								ļ			- 1	
Lab I.D.	Sample I.D	•	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ID/BASE:	ICE / COOL			BOISM TPK	8021B BTET	Total Chlorides									
H201139				#_	8			12	욁			TIME	80	ŏo	7					<u> </u>				
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Relinquished B	y:	Date: 12012	Re	ceiv	ed B	y:						Phone Re Fax Resul	t:	☐ Ye	<u> </u>	No No	Add'l I	ay #						
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Délivered By: (Circle One)  Sample Condition  Sampler - UPS - Bus Other:  Sampler - UPS - Bus Other:  Sampler - UPS - Bus Other:						s		C	L,															

# FINAL C-141