

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

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

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

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

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

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

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

August 8, 2012

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Devon Energy
Hackberry 18 Federal No. 1
API # 30-015-29780 2RP-1042

Dear Mr. Bratcher,

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.

Background Information

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.

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 underlain 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.

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

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

ENVIRONMENTAL CONSULTING
ENGINEERING
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 NMOC 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

<u>Sample, Location</u>	<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

May 4, 2012

<u>Sample, Location</u>	<u>BTEX</u>	<u>Chlorides</u>	<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 Btry	<0.150	176	2750
S-26, East sidewall Btry	<0.150	96	26.7
S-27, North sidewall Btry	<0.150	48	17
S-28, West sidewall Btry	<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

<u>Sample, Location</u>	<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.

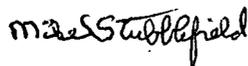
Closure

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

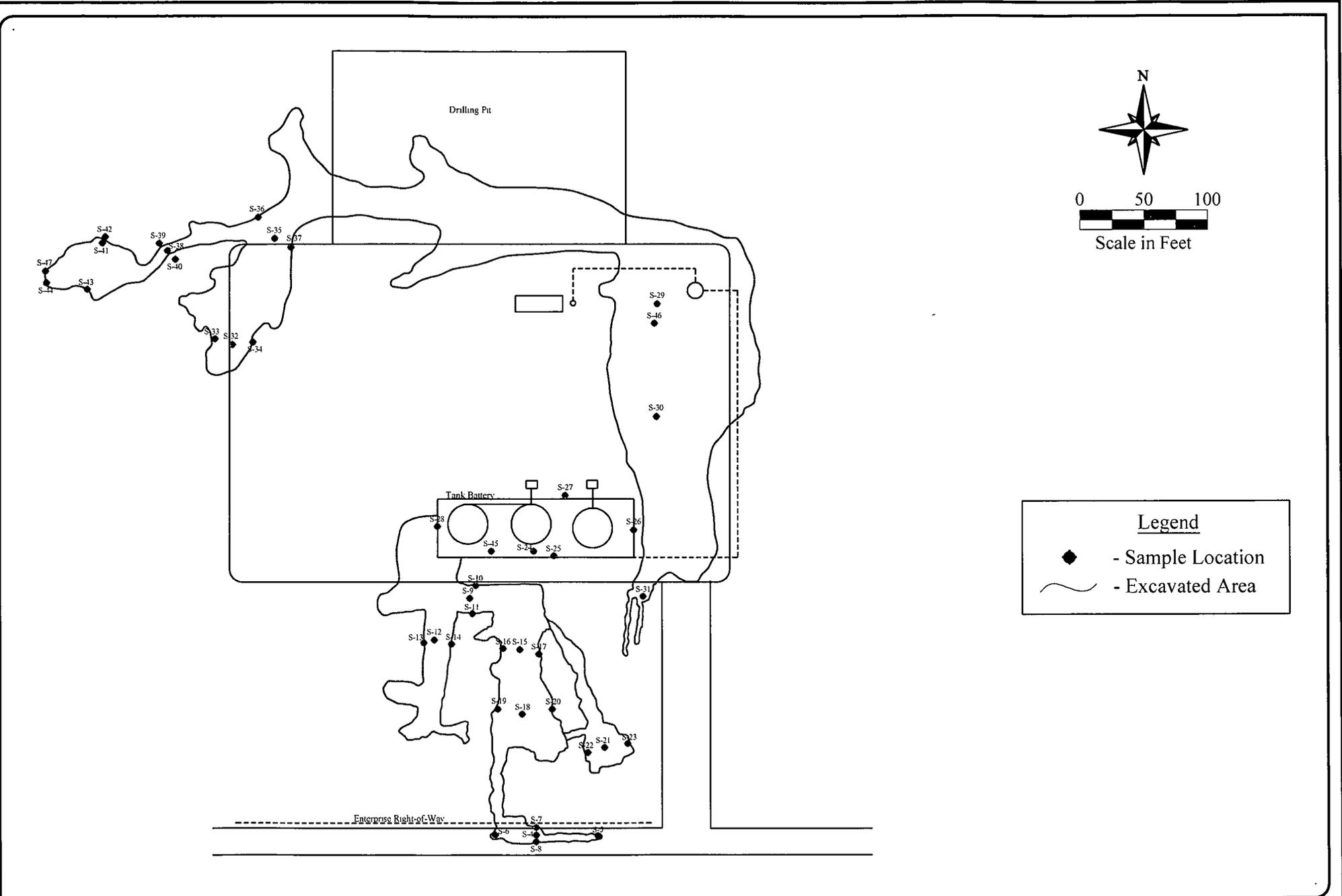


Mike Stubblefield
Project Manager



David J. Adkins
District Manager

SITE MAP



Date: 06/26/2012
 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)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00829			LE	2	4	16	19S	31E		606165	3614009*	3358	120		
													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

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

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

Item	Origin	Purity	Germ	Dormant	Germ & Dormant	Test Date	Total PLS Pounds
Dropseed	Texas	7.76%	83.00%	10.00%	93.00%	03/12	12.00
Bluestem Woodward	Texas	11.77%	92.00%	0.00%	92.00%	04/12	18.00
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
Alkali Sacaton	New Mexico	3.72%	14.00%	83.00%	97.00%	03/12	6.00
Four Wing Saltbush	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

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Lot# M-10929

Item	Origin	Purity	Germ	Dormant	Germ & Dormant	Test Date	Total PLS Pounds
Sand Dropseed VNS	Texas	7.76%	83.00%	10.00%	93.00%	03/12	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%(TZ)	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 Saltbush VNS	New Mexico	30.09%	34.00%	26.00%	60.00%	01/12	30.00

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Woodward							
Little Bluestem	Washington	18.80%	96.00%	0.00%	96.00%(TZ)	02/12	30.00
Aldous Certified							
Coreopsis	Oregon	7.60%	95.00%	0.00%	95.00%	11/11	12.00
Plains							
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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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 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
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		Analyzed 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 (PII) 102 % 64 4-134

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	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		

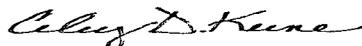
Surrogate 1-Chlorooctane 80 8 % 55 5-154

Surrogate 1-Chlorooctadecane 82 6 % 57.6-158

Cardinal Laboratories

* = Accredited Analyte

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



Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Number:	700794.025.01	Sample Received By:	Jodi Henson
Project Location:	SEC.18-T19S-R31E		

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

BTEX 8021B		mg/kg.		Analyzed 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 4-134

TPH 8015M		mg/kg		Analyzed 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		

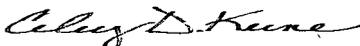
Surrogate 1-Chlorooctane 95.0 % 55.5-154

Surrogate 1-Chlorooctadecane 102 % 57 6-158

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Number:	700794.025.01	Sample Received By:	Jodi Henson
Project Location:	SEC.18-T19S-R31E		

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

BTEX 8021B		mg/kg		Analyzed 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) 103 % 64 4-134

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	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		

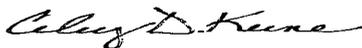
Surrogate: 1-Chlorooctane 79.7 % 55 5-154

Surrogate: 1-Chlorooctadecane 80.9 % 57 6-158

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
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		Analyzed 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 % 64 4-134

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	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		

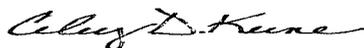
Surrogate 1-Chlorooctane 84 9 % 55 5-154

Surrogate: 1-Chlorooctadecane 86 4 % 57.6-158

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Analytical Results For:

 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
Project Number:	700794.025.01	Sample Received By:	Jodi Henson
Project Location:	SEC.18-T19S-R31E		

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

BTEX 8021B		mg/kg		Analyzed 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 % 64.4-134

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	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		

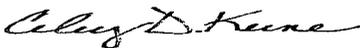
Surrogate 1-Chlorooctane 94.6 % 55.5-154

Surrogate 1-Chlorooctadecane 93.4 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

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. Keene, Lab Director/Quality Manager



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 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		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*	0.226	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 % 61.3-142
 Surrogate: Toluene-d8 97.0 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 137 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

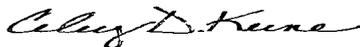
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	106	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	1690	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate: 1-Chlorooctane 148 % 55.5-154
 Surrogate: 1-Chlorooctadecane 150 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		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 92.4 % 61.3-142
 Surrogate Toluene-d8 101 % 71.3-129
 Surrogate 4-Bromofluorobenzene 98.2 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

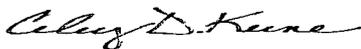
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	31.2	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate 1-Chlorooctane 128 % 55.5-154
 Surrogate 1-Chlorooctadecane 131 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-11 SOUTHSIDE WALL (H200980-03)

BTX 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*	<0.050	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 % 61.3-142

Surrogate. Toluene-d8 101 % 71.3-129

Surrogate. 4-Bromofluorobenzene 93.8 % 65.7-141

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	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	<10.0	10.0	05/02/2012	ND	208	104	200	8.14		

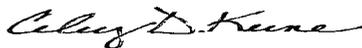
Surrogate. 1-Chlorooctane 141 % 55.5-154

Surrogate. 1-Chlorooctadecane 145 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-12 BOTTOM 1' BGS (H200980-04)

BTEX 8260B		mg/kg		Analyzed 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 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	2140	10.0	05/02/2012	ND	208	104	200	8.14			

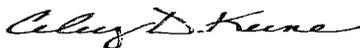
Surrogate: 1-Chlorooctane 134 % 55.5-154

Surrogate: 1-Chlorooctadecane 167 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-13 WESTSIDE WALL (H200980-05)

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*	0.178	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 % 61.3-142
 Surrogate: Toluene-d8 100 % 71.3-129
 Surrogate 4-Bromofluorobenzene 98.2 % 65.7-141

Chloride, SM4500Cl-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		

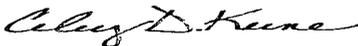
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	25.7	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate: 1-Chlorooctane 117 % 55.5-154
 Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-14 EASTSIDE WALL (H200980-06)

BTEX 8260B		mg/kg		Analyzed 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% 61.3-142
 Surrogate: Toluene-d8 99.1% 71.3-129
 Surrogate: 4-Bromofluorobenzene 99.3% 65.7-141

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		

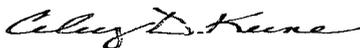
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	22.3	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate: 1-Chlorooctane 136% 55.5-154
 Surrogate: 1-Chlorooctadecane 141% 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-15 BOTTOM 1' BGS (H200980-07)

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*	0.190	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 % 61.3-142
 Surrogate Toluene-d8 98.4 % 71.3-129
 Surrogate 4-Bromofluorobenzene 97.6 % 65.7-141

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		

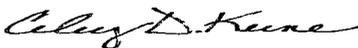
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	1930	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate 1-Chlorooctane 122 % 55.5-154
 Surrogate 1-Chlorooctadecane 153 % 57.6-158

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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:	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-16 WESTSIDE WALL (H200980-08)

BTEX 8260B		mg/kg		Analyzed 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 % 61.3-142
 Surrogate Toluene-d8 99.6 % 71.3-129
 Surrogate 4-Bromofluorobenzene 93.3 % 65.7-141

Chloride, SM4500Cl-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		

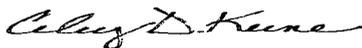
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	13.1	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate 1-Chlorooctane 128 % 55.5-154
 Surrogate 1-Chlorooctadecane 123 % 57.6-158

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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-17 EASTSIDE WALL (H200980-09)

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*	0.065	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 % 61.3-142

Surrogate: Toluene-d8 99.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.0 % 65.7-141

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	05/02/2012	ND	184	92.2	200	6.24	
DRO >C10-C28	18.5	10.0	05/02/2012	ND	208	104	200	8.14	

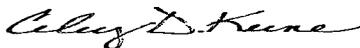
Surrogate: 1-Chlorooctane 135 % 55.5-154

Surrogate: 1-Chlorooctadecane 138 % 57.6-158

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Analytical Results For:

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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:	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-18 BOTTOM 1' BGS (H200980-10)

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*	0.143	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 % 61.3-142
 Surrogate: Toluene-d8 97.7 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 94.6 % 65.7-141

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		

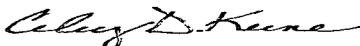
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/02/2012	ND	184	92.2	200	6.24		
DRO >C10-C28	13.8	10.0	05/02/2012	ND	208	104	200	8.14		

Surrogate: 1-Chlorooctane 142 % 55.5-154
 Surrogate 1-Chlorooctadecane 139 % 57.6-158

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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:	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		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 3-142

Surrogate: Toluene-d8 98.5 % 71 3-129

Surrogate: 4-Bromofluorobenzene 98.6 % 65 7-141

Chloride, SM4500Cl-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			

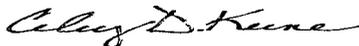
Surrogate: 1-Chlorooctane 168 % 55.5-154

Surrogate: 1-Chlorooctadecane 153 % 57.6-158

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Analytical Results For:

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 408 W. TEXAS AVE.
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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
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 % 61.3-142

Surrogate. Toluene-d8 100 % 71.3-129

Surrogate. 4-Bromofluorobenzene 98.6 % 65.7-141

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	873	10.0	05/03/2012	ND	216	108	200	2.53		

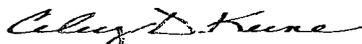
Surrogate. 1-Chlorooctane 95.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.6 % 57.6-158

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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-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% 61.3-142

Surrogate. Toluene-d8 95.7% 71.3-129

Surrogate. 4-Bromofluorobenzene 118% 65.7-141

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% 55.5-154

Surrogate. 1-Chlorooctadecane 105% 57.6-158

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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-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 % 61.3-142
 Surrogate: Toluene-d8 98.6 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 97.9 % 65.7-141

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		

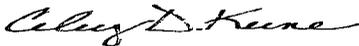
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	19.9	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate: 1-Chlorooctane 82.4 % 55.5-154
 Surrogate: 1-Chlorooctadecane 75.1 % 57.6-158

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Analytical Results For:

 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-23 EASTWALL (H200980-15)

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 % 61.3-142

Surrogate: Toluene-d8 98.5 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.9 % 65.7-141

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	<10.0	10.0	05/03/2012	ND	216	108	200	2.53		

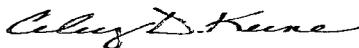
Surrogate: 1-Chlorooctane 80.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 82.3 % 57.6-158

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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-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 3-142
 Surrogate. Toluene-d8 101 % 71 3-129
 Surrogate 4-Bromofluorobenzene 115 % 65 7-141

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		

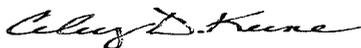
TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	216	10.0	05/03/2012	ND	204	102	200	4.85			
DRO >C10-C28	8410	10.0	05/03/2012	ND	216	108	200	2.53			

Surrogate 1-Chlorooctane 128 % 55.5-154
 Surrogate. 1-Chlorooctadecane 252 % 57.6-158

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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-25 SOUTHSIDE WALL BATT. (H200980-17)

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*	<0.050	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 87.8% 61.3-142

Surrogate: Toluene-d8 98.0% 71.3-129

Surrogate: 4-Bromofluorobenzene 98.4% 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	2750	10.0	05/03/2012	ND	216	108	200	2.53	

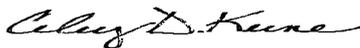
Surrogate: 1-Chlorooctane 86.7% 55.5-154

Surrogate: 1-Chlorooctadecane 129% 57.6-158

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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-26 EASTSIDE WALL BATT. (H200980-18)

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*	<0.050	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 % 61.3-142
 Surrogate: Toluene-d8 99.2 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 92.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	26.7	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate: 1-Chlorooctane 80.9 % 55.5-154
 Surrogate: 1-Chlorooctadecane 82.3 % 57.6-158

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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
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		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 87.2 % 61.3-142

Surrogate. Toluene-d8 97.9 % 71.3-129

Surrogate. 4-Bromofluorobenzene 91.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	17.0	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate. 1-Chlorooctane 83.7 % 55.5-154

Surrogate 1-Chlorooctadecane 86.9 % 57.6-158

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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-28 WESTSIDE WALL BATT. (H200980-20)

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*	<0.050	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		

<i>Surrogate Dibromofluoromethane</i>	87.7 %	61.3-142
<i>Surrogate Toluene-d8</i>	98.3 %	71.3-129
<i>Surrogate 4-Bromofluorobenzene</i>	90.5 %	65.7-141

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		

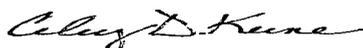
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	242	10.0	05/03/2012	ND	216	108	200	2.53		

<i>Surrogate 1-Chlorooctane</i>	78.9 %	55.5-154
<i>Surrogate 1-Chlorooctadecane</i>	81.8 %	57.6-158

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 ARTESIA NM, 88210
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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-29 BTTM .5' BGS HT (H200980-21)

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 90.6 % 61 3-142
 Surrogate. Toluene-d8 97.8 % 71 3-129
 Surrogate. 4-Bromofluorobenzene 89.8 % 65 7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

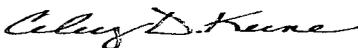
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate. 1-Chlorooctane 85.4 % 55 5-154
 Surrogate. 1-Chlorooctadecane 82.9 % 57.6-158

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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-30 BTM .5' BGS LOC. (H200980-22)

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 87.7% 61.3-142

Surrogate: Toluene-d8 95.6% 71.3-129

Surrogate: 4-Bromofluorobenzene 88.7% 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	23.2	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate: 1-Chlorooctane 85.9% 55.5-154

Surrogate: 1-Chlorooctadecane 83.8% 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-31 BTTM .5' BGS OFF LOC. (H200980-23)

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	87.8 %	61.3-142
Surrogate Toluene-d8	97.5 %	71.3-129
Surrogate 4-Bromofluorobenzene	93.4 %	65.7-141

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	432	108	400	3.77		

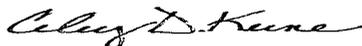
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate 1-Chlorooctane	80.8 %	55.5-154
Surrogate 1-Chlorooctadecane	77.4 %	57.6-158

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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
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 BTM .5' BGS OFF LOC. (H200980-24)

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		

<i>Surrogate Dibromofluoromethane</i>	87.8 %	61.3-142
<i>Surrogate. Toluene-d8</i>	98.3 %	71.3-129
<i>Surrogate. 4-Bromofluorobenzene</i>	90.8 %	65.7-141

Chloride, SM4500Cl-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		

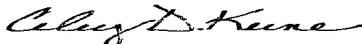
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53		

<i>Surrogate: 1-Chlorooctane</i>	87.5 %	55.5-154
<i>Surrogate. 1-Chlorooctadecane</i>	88.7 %	57.6-158

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Analytical Results For:

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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 % 61.3-142
 Surrogate: Toluene-d8 97.7 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 90.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

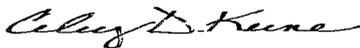
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	204	102	200	4.85		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	216	108	200	2.53		

Surrogate: 1-Chlorooctane 89.6 % 55.5-154
 Surrogate: 1-Chlorooctadecane 93.1 % 57.6-158

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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-34 EASTSIDE WALL OFF LOC. (H200980-26)
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 88.2 % 61.3-142

Surrogate. Toluene-d8 98.3 % 71.3-129

Surrogate. 4-Bromofluorobenzene 91.4 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed 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

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	

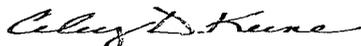
Surrogate. 1-Chlorooctane 90.0 % 55.5-154

Surrogate. 1-Chlorooctadecane 96.3 % 57.6-158

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 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-35 BTM 1'BGS OFF LOC. (H200980-27)

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 89.5% 61.3-142

Surrogate: Toluene-d8 97.6% 71.3-129

Surrogate: 4-Bromofluorobenzene 91.3% 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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		

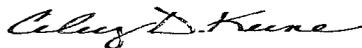
Surrogate: 1-Chlorooctane 83.9% 55.5-154

Surrogate 1-Chlorooctadecane 82.4% 57.6-158

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Analytical Results For:

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 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-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 % 61.3-142

Surrogate: Toluene-d8 98.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 92.3 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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		

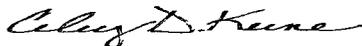
Surrogate: 1-Chlorooctane 95.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 95.7 % 57.6-158

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 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-37 NORTH WALL (H200980-29)
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 87.5 % 61.3-142

Surrogate: Toluene-d8 99.0 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.1 % 65.7-141

Chloride, SM4500Cl-B
mg/kg
Analyzed 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
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	

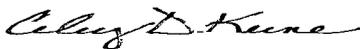
Surrogate: 1-Chlorooctane 85.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 83.8 % 57.6-158

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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-38 BOTTOM 1' BGS (H200980-30)
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 86.9 % 61.3-142

Surrogate. Toluene-d8 96.3 % 71.3-129

Surrogate 4-Bromofluorobenzene 90.0 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed 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

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	

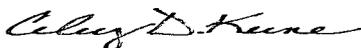
Surrogate: 1-Chlorooctane 83.7 % 55.5-154

Surrogate 1-Chlorooctadecane 84.9 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-39 NORTH WALL (H200980-31)

BTX 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 89.3 % 61.3-142

Surrogate. Toluene-d8 97.9 % 71.3-129

Surrogate: 4-Bromofluorobenzene 90.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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		

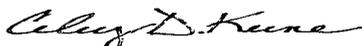
Surrogate 1-Chlorooctane 89.7 % 55.5-154

Surrogate 1-Chlorooctadecane 93.3 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-40 SOUTH WALL (H200980-32)
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 91.5 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 94.3 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed 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

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	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	

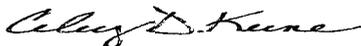
Surrogate 1-Chlorooctane 78.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 82.2 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-41 BOTTOM 1' BGS (H200980-33)

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 87.7 % 61.3-142
 Surrogate Toluene-d8 98.4 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 89.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

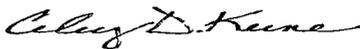
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	192	96.2	200	1.55		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82		

Surrogate. 1-Chlorooctane 80.8 % 55.5-154
 Surrogate. 1-Chlorooctadecane 83.9 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-42 NORTHWALL (H200980-34)

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 86.4 % 61.3-142
 Surrogate: Toluene-d8 100 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 92.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

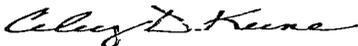
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	192	96.2	200	1.55		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82		

Surrogate 1-Chlorooctane 70.6 % 55.5-154
 Surrogate 1-Chlorooctadecane 67.8 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-43 SOUTHWALL (H200980-35)

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% 61.3-142
 Surrogate Toluene-d8 95.6% 71.3-129
 Surrogate 4-Bromofluorobenzene 89.0% 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

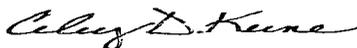
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2012	ND	192	96.2	200	1.55		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82		

Surrogate 1-Chlorooctane 84.7% 55.5-154
 Surrogate 1-Chlorooctadecane 89.1% 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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-44 WESTWALL (H200980-36)

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 89.3 % 61.3-142

Surrogate. Toluene-d8 99.1 % 71.3-129

Surrogate 4-Bromofluorobenzene 93.0 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	192	96.2	200	1.55		
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82		

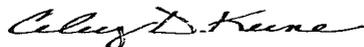
Surrogate: 1-Chlorooctane 83.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 88.9 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

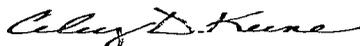
Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1-4

Company Name: Talon/IFE		BILL TO		ANALYSIS REQUEST																							
Project Manager: Mike Stutloff		P.O. #:																									
Address: 408 West Texas Ave.		Company: Talon/IFE																									
City: Alameda State: NM Zip: 88210		Attn:																									
Phone #: 505-441-7254 Fax #:		Address:																									
Project #: 200794.025.01 Project Owner: Duron Energy Corp.		City:																									
Project Name: Hackberry 18 Federal No. 1		State: Zip:																									
Project Location: sec. 18 - 419C-R3LE		Phone #:																									
Sampler Name: Mike Stutloff		Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	8015 M TPH	8021 B STEY	Total chlorides										
H220480																											
-1	5-9 bottom 1' bps												4/27/2012	10:23 A	/	/	/										
2	5-10 Northside wall												4/27/2012	10:25 A	/	/	/										
3	5-11 Southside wall												4/27/2012	10:27 A	/	/	/										
4	5-12 bottom 1' bps												4/27/2012	10:32 A	/	/	/										
5	5-13 Westside wall												4/27/2012	10:35 A	/	/	/										
6	5-14 Eastside wall												4/27/2012	10:39 A	/	/	/										
7	5-15 bottom 1' bps												4/27/2012	10:41 A	/	/	/										
8	5-16 Westside wall												4/27/2012	10:45 A	/	/	/										
9	5-17 Eastside wall												4/27/2012	10:46 A	/	/	/										
10	5-18 bottom 1' bps												4/27/2012	10:48 A	/	/	/										

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Relinquished By: Mike Stutloff	Date: 4/30/2012	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 11:32		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	JH		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2.4

Company Name: <u>Tabor/LPE</u>		BILLET		ANALYSIS REQUEST																
Project Manager: <u>Mike Stubblefield</u>		P.O. #:																		
Address: <u>408 West Tallas Ave.</u>		Company: <u>Tabor/LPE</u>																		
City: <u>Altoona</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																		
Phone #: <u>505-441-7214</u> Fax #:		Address:																		
Project #: <u>100794.025.01</u> Project Owner:		City:																		
Project Name: <u>Wastewater 18 Fil. No. 1</u>		State: Zip:																		
Project Location: <u>Sec. 18-7195-R31E</u>		Phone #:																		
Sampler Name: <u>Mike Stubblefield</u>		Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	805 P TPH	8021 B BTEX	Total chlorides			
<u>H2009FEO</u>																				
	<u>11 S-19 West wall</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>10:50 A</u>	/	/	/			
	<u>12 S-20 East wall</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>10:52 A</u>	/	/	/			
	<u>13 S-21 bottom 1' bag</u>	<u>G</u>	<u>2</u>			/				/			<u>4/27/2012</u>	<u>10:54 A</u>	/	/	/			
	<u>14 S-22 West wall</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>10:55 A</u>	/	/	/			
	<u>15 S-23 East wall</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>10:59 A</u>	/	/	/			
	<u>16 S-24 bottom 1' bag battery</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>11:01 A</u>	/	/	/			
	<u>17 S-25 Southside wall battery</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>11:03 A</u>	/	/	/			
	<u>18 S-26 Eastside wall battery</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>11:07 A</u>	/	/	/			
	<u>19 S-27 Northside wall battery</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>11:11 A</u>	/	/	/			
	<u>20 S-28 Westside wall battery</u>	<u>G</u>	<u>1</u>			/				/			<u>4/27/2012</u>	<u>11:14 A</u>	/	/	/			

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Relinquished By: <u>Mike Stubblefield</u>		Date: <u>4/30/2012</u>	Received By: <u>Godi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <u>11:32</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other: <u>-0.52</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>Godi Benson</u>	

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

4/27/12



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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-45 BOTTOM 2' BGS BATT (H201139-01)

BTEX 8021B		mg/kg		Analyzed 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 (PID) 112 % 89 4-126

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	05/22/2012	ND	186	92.9	200	4.00		
DRO >C10-C28	<10.0	10.0	05/22/2012	ND	187	93.6	200	6.08		

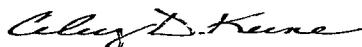
Surrogate 1-Chlorooctane 83.1 % 65.2-140
Surrogate 1-Chlorooctadecane 89.2 % 63 6-154
Sample ID: S-46 BOTTOM 8" BGS HEATER TREAT (H201139-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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, SM4500Cl-B	mg/kg	Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>		BILL TO		ANALYSIS REQUEST												
Project Manager: <u>Mike Stubblefield</u>		P.O. #:														
Address: <u>408 West Total Ave.</u>		Company: <u>Talon/LPE</u>														
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:														
Phone #: <u>575-441-2254</u> Fax #:		Address:														
Project #: <u>700294.025.01</u> Project Owner: <u>Devon Energy Corp.</u>		City:														
Project Name: <u>Hackberry 18 Federal No. 1</u>		State: Zip:														
Project Location: <u>sec. 18 - T19S - R71E</u>		Phone #:														
Sampler Name: <u>Mike Stubblefield</u>		Fax #:														
FOR LAB USE ONLY		GRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		80157 TRN	80210 QTEX	Total Cations
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			
<u>H201139</u>																
<u>1</u>	<u>S-45 bottom 2' bgs battery</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>5/21/2012</u>	<u>11:43A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>2</u>	<u>S-46 bottom 8' bgs Heater Treater</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>5/21/2012</u>	<u>11:48A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>3</u>	<u>S-47 Westwell</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>5/21/2012</u>	<u>11:55A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>5/21/2012</u>	Received By: <u>Saul Mojica</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>12:55PM</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>Saul Mojica</u>	Date: <u>5/21/12</u>	Received By: <u>Cheryl</u>	REMARKS: <u>* Sample id changed to 8" as per Kimberly. 7/6/12</u>	
	Time: <u>4:20P</u>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus <input checked="" type="radio"/> Other: <input type="radio"/>	<u>2.5°C</u> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<u>cdy</u>		

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

H26

FINAL C-141