

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

HOBBS OCD

Form C-141  
Revised October 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

JUL 14 2011

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

RECEIVED

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Fasken Oil and Ranch, Ltd.	Contact Jimmy Carlile	
Address 303 W. Wall St., 1800, Midland, TX 79701	Telephone No. 432-687-1777	
Facility Name Denton No. 10	Facility Type Oil Well	
Surface Owner Darr Angell	Mineral Owner	Lease No. API # 30-025-05297

LOCATION OF RELEASE

Unit Letter H	Section 11	Township 15S	Range 37E	Feet from the 1982'	North/South Line North	Feet from the 562'	East/West Line East	County Lea
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Latitude 33.0337 Longitude -103.16412

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 28 bbls	Volume Recovered 22 bbls
Source of Release Flowline	Date and Hour of Occurrence 7/5/10 8:00 am	Date and Hour of Discovery 7/5/10 9:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* External Corrosion of flowline. Section of pipe replaced		
Describe Area Affected and Cleanup Action Taken.* Excavated the 215'x115' impacted area to a depth of 4', disposed of contaminated soil to Sundance Parabo disposal, installed a 220'x115' 20 mil liner, backfilled area with new material from Angell Ranch Pit, contoured to match surrounding terrain and the area will be seeded with an approved seed mixture.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not constitute approval of the release under federal, state, or local laws and/or regulations.

Signature: Jimmy D. Carlile	APPROVED	
Printed Name: Jimmy D. Carlile		
Title: Regulatory Affairs Coordinator	Approval Date: 2/5/16	Expiration Date:
E-mail Address: jimmyc@forl.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/6/11 Phone: 432-687-1777		

\* Attach Additional Sheets If Necessary

1 RP 2503



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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

JUL 14 2010

HOBBSOCD

Form C- 41  
Revised October 10, 2003

Submit 2 Copies to appropriate  
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with Rule 116 on back  
side of form

## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <u>Fasken Oil and Ranch, Ltd.</u>	Contact <u>Jimmy D. Carlile</u>
Address <u>303 W. Wall St., Ste. 1800, Midland</u>	Telephone No. <u>432-687-1777</u>
Facility Name <u>Denton No. 10</u>	Facility Type <u>Oil Well</u>

Surface Owner <u>Darr Angell</u>	Mineral Owner	Lease No.
----------------------------------	---------------	-----------

## LOCATION OF RELEASE

30-025-05297

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	11	15S	37E	1982'	North	562'	East	Lea

API No. 30-025-05297

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

WTR 42'

## NATURE OF RELEASE

Type of Release <u>Oil and produced water</u>	Volume of Release <u>28</u>	Volume Recovered <u>22</u>
Source of Release <u>Flowline</u>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>7-5-10</u> <u>8:00 am</u>	<u>7-5-10</u> <u>9:00 am</u>

By Whom?	Date and Hour
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <u>N/A</u>

If a Watercourse was Impacted, Describe Fully.\*

N/A

Describe Cause of Problem and Remedial Action Taken.\*

External corrosion on flowline. Section of pipe replaced.

Describe Area Affected and Cleanup Action Taken.\*

215' X 115' leak occurred in area of standing rain water. Vacuum trucks picked up all water and oil. Will allow area to dry and grab soil samples to check for chloride levels.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Jimmy D. Carlile</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Jimmy D. Carlile</u>	ENVIRONMENTAL ENGINEER	
Title: <u>Regulatory Affairs Coordinator</u>	Approval Date: <u>7-14-10</u>	Expiration Date: <u>9-14-10</u>
E-mail Address: <u>jimmymc@for1.com</u>	Conditions of Approval:	
Date: <u>7-12-10</u>	<input type="checkbox"/> Attached <input checked="" type="checkbox"/> Submit Final C 141 w/ Docs by IRP# 10-7-2583	
Phone: <u>432-687-1777</u>		

\* Attach Additional Sheets If Necessary

n LWS 1019530957

p LWS 1019534610



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JUN 20 2011

FASKEN OIL AND  
RANCH, LTD.

HOBBS OCD

JUL 14 2011

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June 16, 2011

Mr. Geoffrey Leking  
NMOCD District 1  
1625 N. French Dr.  
Hobbs, NM 88240

Subject: **Remediation and Closure Report**  
Fasken Oil Ranch, Ltd.  
Denton No. 10  
API # 30-025-05297 -- 1RP-10-7-2583

Dear Mr. Leking,

Fasken Oil and Ranch, Ltd. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Denton No. 10 location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

#### Incident Date

July 5, 2010

#### Background Information

The Denton No 10 is located approximately thirty (30) miles north of Hobbs, New Mexico. The legal location for the site is Section 11, Township 15 South and Range 37 East in Lea County, New Mexico. More Specifically the latitude and longitude for the release are 33.03370 North and -103.16412 West.

This site lies on undulating plains and low hills consisting of wind worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils underlain by sand stone and caliche layers. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S11-T15S-R37E. The ground water in Section 11 is reported to be at an average depth of 42' below ground surface (bgs). The referenced groundwater data and initial C-141 is presented in Appendix I.

The ranking for this site is 20 based on the as following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

#### 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

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www.talonlpe.com



## **Incident Description**

On July 5, 2010, a corroded flow line located east of the Denton No. 10 location leaked. The flow line was subsequently taken out of service and repaired. Twenty-eight (28) barrels of produced water and hydrocarbons were released. A vacuum truck was called out and twenty-two (22) barrels of mixed fluids were recovered. The impacted area is approximately two hundred fifteen feet (215') long by one hundred fifteen feet (115') wide.

## **Actions Taken**

On March 1, 2011 Talon personnel mobilized to the site to begin site assessment activities and excavation. The affected soil within the flow path of the release was removed to an average depth of 4-feet deep. A total of 3,988 cubic yards of impacted soil was excavated and transported to a NMOCD approved solid waste disposal facility, Sundance Parabo. The excavated area was left open until approval for installing a 20 mil and backfilling of site was obtained from NMOCD.

On March 8, 2011 Talon personnel mobilized to the site to begin soil sampling activities. Soil samples collected from impacted area were comprised of composite side-wall samples of the excavation.

Soils samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics pursuant to EPA Method 8021B; Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M; and Total Chlorides via Method SM4500Cl-B.

## **Analytical Results**

Analytical results detailed on the attached laboratory report dated and March 11, 2011, Appendix II is summarized below.

<u>Sample</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides</u>
S-1	<50	248	2,240 mg/kg
S-2	<50	136	144
S-3	<50	<50	672
S-4	<50	<50	3,680

For this site's ranking, New Mexico Oil Conservation District Recommended Remedial Action Levels (RRALs) for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg.

### **Closure**

On March 21, 2011 Talon personnel returned to the site to begin installing a composite 20 millimeter liner two hundred twenty-five feet (225') long by one hundred twenty feet (120') wide over the excavated area. The edges of the liner was keyed a minimum of three 3-feet deep into a trench excavated at the boundaries of the impacted area. Additional liner material was utilized to cover the west side-wall and utility line per NMOCD stipulation.

The excavated area was subsequently backfilled to grade using new material transported from the Angell Ranch pit and placed over the top of the 20 millimeter liner in a 3-foot soil lift. The soil lift will be contoured to match the surrounding terrain and will be seeded using the recommended seed mixture for the area.

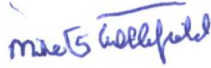
### **Conclusions and Recommendations**

- Ground water in the project vicinity is approximately 42-feet below land surface per the New Mexico State Engineer Database.
- A total of 3988 cubic yards of impacted soil were excavated and properly disposed of.
- A 27,000 square feet of 20 mil liner was installed. It is unlikely that the impacts identified from this release will now pose a threat to groundwater.
- Based upon the results of the sampling and analytical program, all chemical parameters tested for below the final depth of excavation are below their respective RRALs.
- Therefore, on behalf of Fasken Oil and Ranch, Ltd., we respectfully request that no further actions be required and that closure with respect to this release and that site closure be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE

A handwritten signature in blue ink, appearing to read "Mike Stubblefield".

Mike Stubblefield  
Project Manager

A handwritten signature in blue ink, appearing to read "David J. Adkins".

David J. Adkins  
District Manager





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 01117	PRO	LE		3	4	2	11	15S	37E	671314	3656419*	120	50	70
L 01117 APPRO	PRO	LE		3	4	2	11	15S	37E	671314	3656419*	120	50	70
L 01182 APPRO	DOM	LE		1	1	1	11	15S	37E	670096	3657007*	110	35	75
L 01283 APPRO	PRO	LE		3	2	11	15S	37E	671012	3656515*	120	40	80	
L 01321 APPRO	PRO	LE		4	2	11	15S	37E	671415	3656520*	120	32	88	
L 01322 APPRO	PRO	LE		2	1	1	11	15S	37E	670296	3657007*	120		
L 01323 APPRO	PRO	LE		4	2	11	15S	37E	671415	3656520*	120	32	88	
L 01324 APPRO	PRO	LE		1	2	11	15S	37E	671004	3656917*	120	32	88	
L 01430 APPRO	PRO	LE		2	1	11	15S	37E	670601	3656913*	120	33	87	
L 02317	PRO	LE		1	1	11	15S	37E	670197	3656908*	110	65	45	
L 02317 APPRO	PRO	LE		1	1	11	15S	37E	670197	3656908*	110	65	45	
L 02391 APPRO	STK	LE		3	3	3	11	15S	37E	670118	3655599*	80	37	43
L 07610	PRO	LE		3	2	11	15S	37E	671012	3656515*	100			
L 07665	PRO	LE		4	4	4	11	15S	37E	671529	3655614*	136	40	96

Average Depth to Water: **42 feet**

Minimum Depth: **32 feet**

Maximum Depth: **65 feet**

**Record Count: 14**

**PLSS Search:**

**Section(s): 11**

**Township: 15S**

**Range: 37E**

**HOBBS OCD**

**JUL 14 2011**

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\*UTM location was derived from PLSS - see Help

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

March 11, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

**HOBBS OCD****JUL 14 2011****RECEIVED**

RE: FASKEN OIL / DENTON #10

Enclosed are the results of analyses for samples received by the laboratory on 03/08/11 15:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 03/08/2011  
Reported: 03/11/2011  
Project Name: FASKEN OIL / DENTON #10  
Project Number: 701014.023.01  
Project Location: LOVINGTON, NM SEC11-T15S-R34E

Sampling Date: 03/08/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Aaron Berry

**Sample ID: S-1 NORTHSIDE WALL (H100449-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2011	ND	1.86	92.8	2.00	7.67	
Toluene*	<0.050	0.050	03/09/2011	ND	2.02	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	03/09/2011	ND	2.28	114	2.00	0.196	
Total Xylenes*	<0.150	0.150	03/09/2011	ND	6.75	113	6.00	0.0111	

Surrogate: 4-Bromofluorobenzene (PIL) 91.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	03/09/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2011	ND	170	85.2	200	0.285	
DRO >C10-C28	248	10.0	03/09/2011	ND	173	86.4	200	3.27	

Surrogate: 1-Chlorooctane 116 % 70-130

Surrogate: 1-Chlorooctadecane 102 % 70-130

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: 03/08/2011  
 Reported: 03/11/2011  
 Project Name: FASKEN OIL / DENTON #10  
 Project Number: 701014.023.01  
 Project Location: LOVINGTON, NM SEC11-T15S-R34E

 Sampling Date: 03/08/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Aaron Berry

**Sample ID: S-2 EASTSIDE WALL (H100449-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2011	ND	1.86	92.8	2.00	7.67	
Toluene*	<0.050	0.050	03/09/2011	ND	2.02	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	03/09/2011	ND	2.28	114	2.00	0.196	
Total Xylenes*	<0.150	0.150	03/09/2011	ND	6.75	113	6.00	0.0111	

Surrogate: 4-Bromofluorobenzene (PIL) 88.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/09/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2011	ND	170	85.2	200	0.285	
DRO >C10-C28	136	10.0	03/09/2011	ND	173	86.4	200	3.27	

Surrogate: 1-Chlorooctane 114 % 70-130

Surrogate: 1-Chlorooctadecane 103 % 70-130

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: 03/08/2011  
Reported: 03/11/2011  
Project Name: FASKEN OIL / DENTON #10  
Project Number: 701014.023.01  
Project Location: LOVINGTON, NM SEC11-T15S-R34E

Sampling Date: 03/08/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Aaron Berry

**Sample ID: S-3 SOUTHSIDE WALL (H100449-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2011	ND	1.86	92.8	2.00	7.67	
Toluene*	<0.050	0.050	03/09/2011	ND	2.02	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	03/09/2011	ND	2.28	114	2.00	0.196	
Total Xylenes*	<0.150	0.150	03/09/2011	ND	6.75	113	6.00	0.0111	

Surrogate: 4-Bromofluorobenzene (PIL) 99.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	03/09/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2011	ND	170	85.2	200	0.285	
DRO >C10-C28	44.2	10.0	03/09/2011	ND	173	86.4	200	3.27	

Surrogate: 1-Chlorooctane 128 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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: 03/08/2011  
 Reported: 03/11/2011  
 Project Name: FASKEN OIL / DENTON #10  
 Project Number: 701014.023.01  
 Project Location: LOVINGTON, NM SEC11-T15S-R34E

Sampling Date: 03/08/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Aaron Berry

**Sample ID: S-4 WESTSIDE WALL (H100449-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2011	ND	1.86	92.8	2.00	7.67	
Toluene*	<0.050	0.050	03/09/2011	ND	2.02	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	03/09/2011	ND	2.28	114	2.00	0.196	
Total Xylenes*	<0.150	0.150	03/09/2011	ND	6.75	113	6.00	0.0111	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	03/09/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2011	ND	170	85.2	200	0.285	
DRO >C10-C28	45.7	10.0	03/10/2011	ND	173	86.4	200	3.27	

Surrogate: 1-Chlorooctane 124 % 70-130

Surrogate: 1-Chlorooctadecane 117 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

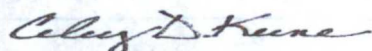
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476**

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

\* Sample just taken & immediately brought in on ice.