

**Miro, Alena**

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**From:** Nolan, Shiver  
**Sent:** Tuesday, December 20, 2016 12:35 PM  
**To:** NMOCD Mike Bratcher (mike.bratcher@state.nm.us)  
**Cc:** Miro, Alena; Ferguson, Dina  
**Subject:** Eddy County 2RP2085 and 2RP 2846  
**Attachments:** Clean Up Completion Report 30137 09JUN2013 modDJF.pdf; Eddy County C-141 30137 (2-1-2014) 2RP-2846 December 2016.pdf; Eddy County C-141 30137 (11-12-2-13) 2RP-2085 December 2016.pdf

Mr. Bratcher,

Per your request regarding final C-141 forms for previous Enterprise Field Services pipeline releases, please find the attached documentation.

Please note, it appears as though the two below referenced releases were combined and final C-141 forms and closure report were submitted to the agency on May 27, 2014. Enterprise is resigning and re-submitting the attached reports for your records.

Please let Alena Miro know should you have any questions regarding this submittal.

Responsible Party ID	Date of Event	Line Number
2RP-2085	11/12/2013	P-ROW, 30137 Gathering Lateral
2RP-2846	2/15/2015	Pipeline ROW, 30137 Gathering Lateral

Shiver Nolan  
Sr. Compliance Administrator

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

**2RP-2085 OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company <b>Enterprise Field Services LLC</b>	Contact <b>Alena Miro</b>
<b>PO Box 4324, Houston, TX 77252</b>	Telephone No. <b>575-628-6802</b>
Facility Name <b>Pipeline ROW, 30137 Gathering Lateral</b>	Facility Type: <b>Gas Gathering Pipeline</b>
Surface Owner <b>State of New Mexico</b>	Mineral Owner <b>NA, Pipeline</b>
Lease No. <b>NA</b>	

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>H</b>	<b>13</b>	<b>19S</b>	<b>28E</b>	<b>64</b>	<b>South</b>	<b>515</b>	<b>West</b>	<b>Eddy</b>

Latitude: N 32.653821 Longitude: W -104.137249

### NATURE OF RELEASE

Type of Release <b>Natural Gas</b>	Volume of Release: <b>1.610 MMCF, 13 BBL PPL Liquids (est)</b>	Volume Recovered <b>0 MMCF, 13 BBL in soil</b>
Source of Release <b>Pipeline Leak, small hole in pipe-wall.</b>	Date and Hour of Occurrence <b>11/12/2013 15:00 MST</b>	Date and Hour of Discovery <b>11/12/2013 15:30 MST</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher, District 2</b>	
By Whom? <b>Jim Heap</b>	Date and Hour <b>11/13/2013 07:45 MST</b>	
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.\*

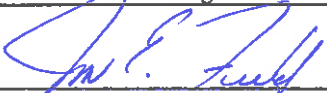

Describe Cause of Problem and Remedial Action Taken.\*

**Small hole in the pipe-wall; suspected corrosion fault. Loss volume includes blow-down loss for repair.**

Describe Area Affected and Cleanup Action Taken.\*

**The contaminated soil was removed and properly disposed. Sampling confirmed complete clean-up. Report is attached.**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Jon E. Fields</b>	Approved by District Supervisor: 	
Title: <b>Sr. Director, Environmental</b>	Approval Date: <b>4/14/2023</b>	Expiration Date:
E-mail Address: <b>snolan@eprod.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>12/20/2016</b> Phone: <b>713-381-6595</b>		

\* Attach Additional Sheets If Necessary



ENTERPRISE PRODUCTS PARTNERS L.P.  
ENTERPRISE PRODUCTS HOLDINGS LLC  
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 30, 2014

7014 0150 0001 5217 5386  
Return Receipt Requested

Mr. Mike Bratcher  
New Mexico Oil Conservation Division  
District 2 Office  
811 South First Street  
Artesia, New Mexico 88210

**RE: Form C-141 Report for Enterprise Field Services LLC  
Releases on Carlsbad Area Gathering Lines**

Mr. Bratcher

Enclosed, please find the requisite FINAL C-141 Forms and Remediation report for the unplanned releases on our 30137 Line in Eddy County of November 23, 2013 and February 14, 2014.

This is sent pursuant to 29 (19.15.29) NMAC and as follow-up to verbal notifications made to your office by phone. All remediation activities are complete.

If you have any questions or need more information, please contact Jim Heap by phone at 432-686-5404, by email at [jheap@eprod.com](mailto:jheap@eprod.com) or Jon Fields, Director-Field Environmental at 713-318-6684.

Yours truly,



Ivan W. Zirbes  
Sr. Director, Environmental

/sjn

cc: Anthony Vigil, Management Analyst, ROW & Water Resources Division, PO Box 1148, Santa Fe, New Mexico 87504  
Mr. Ian Dolly, NM-SLO, 602 N. Canal St., Carlsbad, NM 88220



May 27, 2014

Mr. Mike Bratcher  
**NMOCD District 2**

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

**Subject: Remedial Activities and Closure Report**  
 Enterprise Field Services, LLC  
 30137 Lateral Carlsbad Gathering Field

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

Dear Mr. Bratcher

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

Enterprise Field Services, LLC (Enterprise) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial activities and closure request are submitted herein.

### Background Information

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

The Enterprise 30137 Line Leak is located approximately seventeen (17) miles north of Carlsbad, New Mexico. The legal location for this site is Unit Letter M, Section 13, Township 19 South, Range 28 East. More specifically the latitude and longitude for the release are 32.65382 North and -104.13724 West. A site plan is presented in [Appendix I](#).

**OKLAHOMA CITY**  
 7700 North Hudson Avenue  
 Suite 10  
 Oklahoma City, Oklahoma 73116  
 Phone 405.486.7030  
 Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the of the Tonuco loamy fine sand with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of the upland plains and piedmont areas, and calcic soils and eolian cover sediments of the High Plains region. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 150-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See [Appendix II](#) for the referenced groundwater data.

**SAN ANTONIO**  
 13111 Lookout Way  
 San Antonio, Texas 78233  
 Phone 210.265.8025  
 Fax 210.568.2191

The ranking for this site is 0 based on the 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](http://www.talonlpe.com)

## Incident Description

There were two releases within the same vicinity and time frame on this line. Both of the releases were remediated simultaneously and therefore this report encompasses the remedial activities of both releases.

The first release was discovered on November 12, 2013 by Enterprise personnel. Pipeline fluids flowed from the release point east for approximately 257-feet. An 18 by 40-foot section of the pipeline was exposed in order to repair the leak. Talon mobilized personnel to conduct soil sampling within the trench and along the flow path. Upon receipt of analytical data from this sampling event, a remediation work plan was drafted and subsequently approved by the NMOCD. The laboratory results from the above referenced sampling events are summarized in the table below.

On February 1, 2014 another leak was reported approximately 400-feet East of the first release. After a discussion with the NMOCD it was decided that a separate work plan for this release would not be necessary and that the impacted soil would be remediated in conjunction with the first release.

## Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	6.5	ND	3.07	ND	96.4	702
S-2	6.5	ND	ND	144	ND	ND
S-3	6.5	ND	ND	32	ND	ND
S-4	6.5	ND	0.741	64	ND	56.3
S-5	6.5	ND	98.8	192	676	662
S-6	0	0.890	44.4	ND	715	18200
S-7	0	ND	20.3	ND	233	9260
S-8	0	ND	ND	ND	ND	27
S-5	7	0.101	ND	--	ND	ND
S-6	2	0.220	1.63	--	22.2	504
S-7	2	0.429	1.06	--	10	186
S-9	20	7.24	212	--	1130	1260
BH-1	25	0.136	41.1	--	863	1220
BH-1	35	0.393	36	--	622	627
BH-1	45	ND	0.475	--	ND	105
BH-1	50	ND	ND	--	ND	118

--) Analyte Not Tested

(ND) Analyte Not Detected

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

## Remedial Actions

### December 3, 2013

- Talon mobilized personnel to conduct a site assessment and perform soil sampling activities at the location.
- Grab soil samples were collected at eight sample locations within the impacted area. (See [Appendix I for site plan of sample locations.](#))
- All of the soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. A data table summarizing the results can be seen above. (See [Appendix III for complete laboratory results.](#))

### February 1, 2014

- A second release from this line occurred approximately 400-feet east of the release that occurred on December 3, 2013.
- It was decided that both releases would be remediated simultaneously due to their proximity.

### April 2, 2014

- Talon mobilized personnel and equipment to the site to begin excavating the impacted soil.

### April 2, 2014 through April 6, 2014

- Excavation of the impacted area continued.

### April 7, 2014

- Excavation activities were completed.
- The trench surrounding the initial release point was excavated to a depth of 7-feet bgs and extended to the east (towards sample location S-5). (See [Appendix I for site plan of sample locations.](#))
- The flow path from the initial release point was excavated to a depth of 2-feet bgs. As shown on the site plan.
- Confirmation soil samples were taken in the trench and the flow path.
- The impacted soil surrounding the second release was excavated to a depth of 20-feet bgs.

- A soil sample was taken at the bottom of the 20-foot excavation (S-9).

#### **April 9, 2014**

- Upon receipt of analytical results from the above mentioned sampling event it was decided that the trench and flow path from the first release was fully remediated. It was also decided that the trench surrounding the second release would have to be further delineated.
- Due to its depth the excavation would have to be backfilled and further delineation would have to be accomplished with a drill rig.

#### **April 17, 2014**

- The excavations were backfilled and contoured to match the surrounding terrain.

#### **May 1, 2014**

- A bore hole was drilled to vertically delineate the second release (BH-1).
- The bore hole (BH-1) was drilled in the same location as the sample location S-9.
- As show in the above laboratory results table the samples obtained from the second release were found to be below RRAL's at 25-feet bgs.
- Based on the remedial work that was performed and the analytical results from the vertical delineation soil boring, NMOCD gave permission to close the site.

#### **Summary and Conclusions**

- Ground water in the project vicinity is approximately 150-feet bgs according to the New Mexico Office of the State Engineer
- The trench surrounding the first release was excavated to a depth of 7-feet deep and extended to the east to correct high BTEX numbers at S-5.
- The flow path from the initial release point was excavated to a depth of 2-feet bgs and confirmation samples were taken at sample locations S-6 and S-7.
- The impacted area surrounding the second release was excavated to a depth of 20-feet bgs. No further excavation was possible at those depths with the equipment on site therefore it was decided that the best course of action would be to backfill the excavation and to further delineate the site using an air rotary drill rig.

- Laboratory results from the delineation with the drilling rig showed the soil at 25-feet bgs to be below NMOCD RRAL's.
- Based on the remedial actions that were performed and the analytical results obtained from the soil boring, NMOCD granted permission to close the site.

### Closure

On behalf of Enterprise Field Services, LLC we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

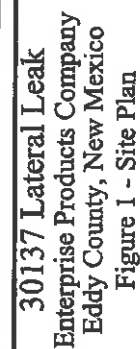
Respectfully submitted,  
TALON/LPE

  
Sheldon Hitchcock  
Project Manager

  
David J. Adkins  
District Manager



## **SITE PLAN**



Date: 06/09/2014

**Scale: 1" = 30'**

Drawn By: TJS



**GROUNDWATER DATA  
INITIAL C-141  
AND  
FINAL C-141**



# 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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00646</a>			ED	1	1	4	07	19S	29E	583155	3615551	2274	199	150	49
<a href="#">CP 00361</a>			ED		1	3	09	19S	28E	576195	3615347*	4758	365	265	100
<a href="#">CP 00361 EXPL</a>			ED	3	1	3	09	19S	28E	576094	3615246*	4854	365	265	100

Average Depth to Water: 226 feet

Minimum Depth: 150 feet

Maximum Depth: 265 feet

**Record Count: 3**

**Basin/County Search:**

**County:** Eddy

**UTMNAD83 Radius Search (In meters):**

**Easting (X):** 580943

**Northing (Y):** 3615024

**Radius:** 5000

\*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.

12/17/13 12:48 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

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

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

Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

Name of Company <b>Enterprise Field Services LLC 1000347</b>		Contact <b>Jim Heap</b>	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
PO Box 4324, Houston, TX 77252		Telephone No. 432-686-5404	
Facility Name <b>Pipeline ROW, 30137 Gathering Lateral</b>		Facility Type: <b>Gas Gathering Pipeline</b>	
Surface Owner <b>Multiple Producers</b>	Mineral Owner <b>NA</b>	Lease No. <b>NA</b>	

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23	19S	28E					Eddy

Latitude: N 32.653821 Longitude: W-104.137249

## NATURE OF RELEASE

Type of Release <b>Natural Gas</b>	Volume of Release: <b>1.610MMCF</b>	Volume Recovered <b>0</b>
Source of Release <b>Pipeline Leak, small hole in pipe-wall.</b>	Date and Hour of Occurrence <b>11/12/2013 15:00 MST</b>	Date and Hour of Discovery <b>11/12/2013 15:30 MST</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher, District 2</b>	
By Whom? <b>Jim Heap</b>	Date and Hour <b>11/13/2013 07:45 MST</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

RECEIVED

NOV 20 2013

JH OCD

If a Watercourse was Impacted, Describe Fully.\*

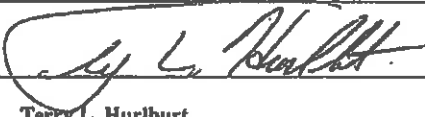

Describe Cause of Problem and Remedial Action Taken.\*

**Small hole in the pipe-wall; suspected corrosion fault. Loss volume includes blow-down loss for repair.**

Describe Area Affected and Cleanup Action Taken.\*

**The line was isolated and prepped for repairs.**

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: 	OIL CONSERVATION DIVISION	
Printed Name: <b>Terry L. Hurlburt</b>	Approved by District Supervisor: <b>Signed By</b> 	
Title: <b>Group Sr. Vice President</b>	Approval Date: <b>NOV 26 2013</b>	Expiration Date:
E-mail Address: <b>snolan@eprod.com</b>	Conditions of Approval: Remediation per OCD Rule & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NO LATER THAN:</b>	Attached <input type="checkbox"/>
Date: <b>11-19-2013</b> Phone: <b>713-381-6595</b>	<b>December 26, 2013</b>	<b>2RP- 2085</b>

\* Attach Additional Sheets If Necessary

FJMW1333131175

IJMW1333132860

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <i>Enterprise Field Services LLC</i>	Contact <i>Jim Heap</i>
<i>PO Box 4324, Houston, TX 77252</i>	Telephone No. <i>432-686-5404</i>
Facility Name <i>Pipeline ROW, 30137 Gathering Lateral</i>	Facility Type: <i>Gas Gathering Pipeline</i>
Surface Owner <i>Multiple Producers, BLM</i>	Mineral Owner <i>NA</i>
Lease No. <i>NA</i>	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<i>13</i>	<i>19S</i>	<i>28E</i>					<i>Eddy</i>

Latitude: *N 32.653805* Longitude: *W -104.136000*

#### NATURE OF RELEASE

Type of Release <i>Natural Gas</i>	Volume of Release: <i>1.345 MMCF</i>	Volume Recovered <i>0</i>
Source of Release <i>Pipeline Leak, small hole in pipe-wall.</i>	Date and Hour of Occurrence <i>02/01/2014 @ 17:00 MST (start)</i>	Date and Hour of Discovery <i>02/14/2014 @ 16:50 MST</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Mike Bratcher, District 2</i>	
By Whom? <i>Jim Heap</i>	Date and Hour <i>02/15/2014 @ 08:00 MST</i>	
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.\*

Describe Cause of Problem and Remedial Action Taken.\*

*Small hole in the pipe-wall; suspected corrosion fault.*

Describe Area Affected and Cleanup Action Taken.\*

*The line was isolated and prepared for repairs.*

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.

#### OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:	
Printed Name: <i>Jon E. Fields</i>	Approval Date:	Expiration Date:
Title: <i>Director, Field Environmental</i>	Conditions of Approval:	
E-mail Address: <i>jefields@eprod.com</i>	Attached <input type="checkbox"/>	
Date: <i>713-381-6684</i>		

\* Attach Additional Sheets If Necessary

## LABORATORY RESULTS

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

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December 16, 2013

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: 30137 LATERAL LEAK

Enclosed are the results of analyses for samples received by the laboratory on 12/05/13 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-1 6.5' (H302950-01)**

BTX 8021B		mg/kg		Analyzed By: CK		S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	0.340	0.100	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	0.448	0.100	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	2.28	0.300	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTX	3.07	0.600	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 164 % 89.4-126

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	12/13/2013	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	96.4	10.0	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	702	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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\* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-2 6.5' (H302950-02)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTX	<0.300	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/13/2013	ND	432	108	400	3.64	
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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	<10.0	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/05/2013  
Reported: 12/16/2013  
Project Name: 30137 LATERAL LEAK  
Project Number: 700348.154.01  
Project Location: NONE GIVEN

Sampling Date: 12/03/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-3 6.5' (H302950-03)**

BTEx 8021B

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEx	<0.300	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 125 % 89.4-126

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	12/13/2013	ND	432	108	400	3.64	

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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	<10.0	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-4 6.5' (H302950-04)**

BTEX 8021B		mg/kg		Analyzed By: CK		S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	0.092	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	0.107	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	0.542	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEX	0.741	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/13/2013	ND	432	108	400	3.64	
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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	56.3	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/05/2013  
Reported: 12/16/2013  
Project Name: 30137 LATERAL LEAK  
Project Number: 700348.154.01  
Project Location: NONE GIVEN

Sampling Date: 12/03/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-5 6.5' (H302950-05)**

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	15.9	1.00	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	14.1	1.00	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	68.8	3.00	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTX	98.8	6.00	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 154 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/09/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: ckc					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	676	10.0	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	662	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 137 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-6 0' (H302950-06)**

BTEX 80218		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.890	0.500	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	14.1	0.500	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	5.04	0.500	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	24.4	1.50	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEX	44.4	3.00	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 156 % 89.4-126

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	12/09/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	715	100	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	18200	100	12/06/2013	ND	190	95.1	200	12.5	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	715	100	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	18200	100	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 186 % 65.2-140

Surrogate: 1-Chlorooctadecane 233 % 63.6-154

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**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-7 0' (H302950-07)**

BTEX 8021B		mg/kg		Analyzed By: CK		S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	3.12	0.200	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	1.88	0.200	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	15.3	0.600	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEX	20.3	1.20	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 187 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP		S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ck		S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	233	50.0	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	9260	50.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 262 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-8 0' (H302950-08)**

BTEX 8021B		mg/kg		Analyzed By: CK		S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEX	<0.300	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

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	12/13/2013	ND	400	100	400	3.92	

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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	27.0	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 99.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

~~CHAIN-OF-CUSTODY AND ANALYSIS REQUEST~~

ANALYSIS REQUEST																																																																																																																																								
<b>Company Name:</b> Talon/LPE <b>P.O. #:</b> <b>Project Manager:</b> S. Hitchcock <b>Address:</b> 408 W. Texas Ave. <b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 88210 <b>Phone #:</b> 575-746-8768 <b>Fax #:</b> 575-746-8905 <b>Project #:</b> 700348.154.01 <b>Project Owner:</b> Enterprise <b>Project Name:</b> 30137 Lateral Leak <b>Project Location:</b> <b>Sampler Name:</b> S. Hitchcock																																																																																																																																								
FOR LAB USE ONLY																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th colspan="4">MATRIX</th> <th colspan="2">PRESERV</th> <th colspan="2">SAMPLING</th> <th rowspan="2">TPH</th> <th rowspan="2">BTX</th> <th rowspan="2">Chlorides</th> </tr> <tr> <th># CONTAINERS</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER :</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S-16.5'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>2</td> <td>S-26.5'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>3</td> <td>S-36.5'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>4</td> <td>S-46.5'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>5</td> <td>S-56.5'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>6</td> <td>S-60'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>7</td> <td>S-70'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>8</td> <td>S-80'</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </tbody> </table>										Lab I.D.	Sample I.D.	MATRIX				PRESERV		SAMPLING		TPH	BTX	Chlorides	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	1	S-16.5'	X									X	X	2	S-26.5'	X									X	X	3	S-36.5'	X									X	X	4	S-46.5'	X									X	X	5	S-56.5'	X									X	X	6	S-60'	X									X	X	7	S-70'	X									X	X	8	S-80'	X									X	X
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<b>REMARKS:</b> Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Adm Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Adm Fax #: _____																																																																																																																																								

PLEASE NOTE: Liability and Damages. Sample results are based on analysis of samples submitted by client for the purpose of testing only. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Certified within 30 days after completion of the applicable services. In no event shall Consultant be liable for incidental or consequential damages, including without limitation, loss of time or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or relating to the performance of services hereunder for Client, regardless of whether such claim is based upon contract, tort or otherwise.

**Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326.**



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April 09, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: 30137 LATERAL LEAK

Enclosed are the results of analyses for samples received by the laboratory on 04/08/14 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-5 7' (H401062-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.101	0.050	04/09/2014	ND	2.19	109	2.00	4.47	
Toluene*	0.157	0.050	04/09/2014	ND	2.09	105	2.00	3.09	
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75	
Total BTX	<0.300	0.300	04/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 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	04/09/2014	ND	203	101	200	3.60	
DRO >C10-C28	<10.0	10.0	04/09/2014	ND	219	109	200	6.96	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-6 2' (H401062-02)**

BTX 8021B		mg/kg		Analyzed By: MS		S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.220	0.050	04/09/2014	ND	2.19	109	2.00	4.47	
Toluene*	0.368	0.050	04/09/2014	ND	2.09	105	2.00	3.09	
Ethylbenzene*	0.140	0.050	04/09/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	0.899	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75	
Total BTEX	1.63	0.300	04/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 136 % 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	22.2	10.0	04/09/2014	ND	203	101	200	3.60	
DRO >C10-C28	504	10.0	04/09/2014	ND	219	109	200	6.96	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-7 2' (H401062-03)**

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.429	0.050	04/09/2014	ND	2.19	109	2.00	4.47	
Toluene*	0.582	0.050	04/09/2014	ND	2.09	105	2.00	3.09	
Ethylbenzene*	0.052	0.050	04/09/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75	
Total BTX	1.06	0.300	04/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 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	04/09/2014	ND	203	101	200	3.60	
DRO >C10-C28	186	10.0	04/09/2014	ND	219	109	200	6.96	

Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	30137 LATERAL LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.154.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-9 20' (H401062-04)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.24	0.500	04/09/2014	ND	2.19	109	2.00	4.47	
Toluene*	64.8	0.500	04/09/2014	ND	2.09	105	2.00	3.09	
Ethylbenzene*	25.0	0.500	04/09/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	115	1.50	04/09/2014	ND	5.81	96.8	6.00	3.75	
Total BTEX	212	3.00	04/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 138 % 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	1130	10.0	04/09/2014	ND	203	101	200	3.60	
DRO >C10-C28	1260	10.0	04/09/2014	ND	219	109	200	6.96	

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
*	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

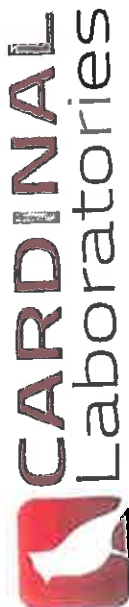
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Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

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

BILL TO		ANALYSIS REQUEST									
Company Name: Talon/LPE		P.O. #:		Company: Talon/LPE							
Project Manager: S. Hitchcock		Address: 408 W. Texas Ave.		Attn:							
City: Artesia		State: NM Zip: 88210		Address:							
Phone #: 575-746-8768		Fax #: 575-746-8905		City:							
Project #:		Project Owner: Enterprise		State:							
Project Name: 30137		Zip:		Phone #:							
Project Location:		Fax #:									
Sampler Name: S. Hitchcock											
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING					
Lab I.D.		# CONTAINERS		(G)RAB OR (C)OMP.		GROUNDWATER		WASTEWATER		SOIL	
Sample I.D.		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:	
		DATE		TIME							
1 5-57		4/7/14		4:19						TPH	
2 5-62				4:23						BTEX	
3 5-72				4:26							
4 5-92d				4:30							

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Relinquished By: Sheldon Harrison Date: 4/8/14 Received By: Joel Jensen

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) 5:20 Sample Condition: Intact Checked By: JA

Sampler - UPS - Bus - Other: \_\_\_\_\_

REMARKS: Rush

Phone Number: ☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

May 06, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: 30137 LATERAL LEAK

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 10:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Accreditation applies to public drinking water matrices.

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



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

**Analytical Results For:**

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

Received: 05/02/2014  
 Reported: 05/06/2014  
 Project Name: 30137 LATERAL LEAK  
 Project Number: 700348.154.01  
 Project Location: S23-T29S-R28E

Sampling Date: 05/01/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: BH-1 25' (H401340-01)**

BTEX 8260B		mg/kg	Analyzed By: ms				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.136	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	5.32	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	4.80	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	30.8	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	41.1	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 92.1 % 61.3-142

Surrogate: Toluene-d8 117 % 71.3-129

Surrogate: 4-Bromofluorobenzene 210 % 65.7-141

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	863	10.0	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	1220	10.0	05/05/2014	ND	225	112	200	5.17	

Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/02/2014  
 Reported: 05/06/2014  
 Project Name: 30137 LATERAL LEAK  
 Project Number: 700348.154.01  
 Project Location: S23-T29S-R28E

Sampling Date: 05/01/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: BH-1 35' (H401340-02)**

BTEX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.393	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	7.16	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	4.05	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	24.4	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	36.0	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 99.1 % 61.3-142

Surrogate: Toluene-d8 122 % 71.3-129

Surrogate: 4-Bromofluorobenzene 260 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	622	10.0	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	627	10.0	05/05/2014	ND	225	112	200	5.17	

Surrogate: 1-Chlorooctane 132 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/02/2014  
Reported: 05/06/2014  
Project Name: 30137 LATERAL LEAK  
Project Number: 700348.154.01  
Project Location: S23-T29S-R28E

Sampling Date: 05/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: BH-1 45' (H401340-03)**

BTEX 8260B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	0.132	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	0.293	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	0.475	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 98.7 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 116 % 65.7-141

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	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	105	10.0	05/05/2014	ND	225	112	200	5.17	

Surrogate: 1-Chlorooctane 99.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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**Analytical Results For:**

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

Received: 05/02/2014  
Reported: 05/06/2014  
Project Name: 30137 LATERAL LEAK  
Project Number: 700348.154.01  
Project Location: S23-T29S-R28E

Sampling Date: 05/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: BH-1 50' (H401340-04)**

BTEX 8260B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2014	ND	2.17	108	2.00	3.34	
Toluene*	<0.050	0.050	05/06/2014	ND	2.16	108	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/06/2014	ND	2.11	106	2.00	0.152	
Total Xylenes*	<0.150	0.150	05/06/2014	ND	6.44	107	6.00	0.679	
Total BTEX	<0.300	0.300	05/06/2014	ND					

Surrogate: Dibromofluoromethane 95.1 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

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	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	118	10.0	05/05/2014	ND	225	112	200	5.17	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*            Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 7 of 7



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO		ANALYSIS REQUEST									
Company Name: Talon/LPE		P.O. #:		Company: Talon/LPE							
Project Manager: S. Hitchcock		Attn:		Address:							
Address: 408 W. Texas Ave.		State: NM Zip: 88210		City:							
Phone #: 575-746-8768 Fax #: 575-746-8905		Project Owner: Enterprise		State:		Zip:					
Project #: 700348.154.01		Project Name: 30137 Lateral Leak		Phone #:							
Project Location: S23-T29S-R28E		Fax #:									
Sampler Name: S. Hitchcock											
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH	BTEX			
H401340	01 BH-1 25	GROUNDWATER	OTHER: SLUDGE	OTHER: ICE / COOL	5/1/14						
02 BH-1 35		GROUNDWATER	OTHER: SLUDGE	OTHER: ICE / COOL	5/1/14						
03 BH-1 45		GROUNDWATER	OTHER: SLUDGE	OTHER: ICE / COOL	5/1/14						
04 BH-1 50		GROUNDWATER	OTHER: SLUDGE	OTHER: ICE / COOL	5/1/14						

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Relinquished By: Shelly Norton Date: 5/1/14 Time: 10:07

Received By: Cheryl Keene Date: 5/1/14 Time: 10:07

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) \_\_\_\_\_

Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition: Cool ☒ Yes ☐ No Initials: CPH

Checked By: \_\_\_\_\_

REMARKS: Rush

Phone Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_  
Fax Result: ☐ Yes ☐ No Add'l Fax #: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 206662

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206662
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/14/2023