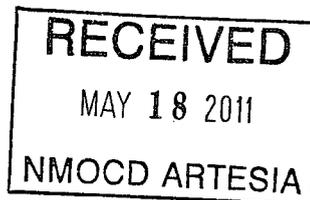




March 16, 2011



**NMOCD District 2**  
1301 West Grand Avenue  
Artesia, NM 88210

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

Attention: Mr. Mike Bratcher

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

Subject: **Soil Assessment Results and Remediation Work Plan**  
Linn Energy, LLC  
Turner B No.104 Location

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

Dear Mr. Bratcher,

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

Linn Energy, LLC has retained Talon/LPE (Talon) to perform soil assessment and remediation services for the release at the referenced Turner B No. 104 Location. Results of the completed soil assessment and our proposed remediation work plan are presented herein.

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

**Background Information**

The Turner B No. 104 location is located approximately thirty-one (31) miles East of Artesia, New Mexico. The legal location for the site is Section 20, Township 17 South and Range 31 East in Eddy County, New Mexico. The site latitude is North 32.82772 and West -103.89605.

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88241  
Phone 505.393.4261  
Fax 505.393.4658

The 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 sandstone and clay layers, providing an impermeable barrier to the migration of fluids in the area of the release. The New Mexico State Engineer Database indicates the nearest groundwater data to be in S12-T16S-R31 East. The groundwater in Section 12 is reported to be at an average depth of 288-feet below ground surface (bgs).

ARTESIA  
408 W. Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 505.746.8905

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

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
EMERGENCY RESPONSE

Toll Free: 866.742.0742  
www.talonlpe.com

## Incident Description

On September 17, 2010 the flow line valve was accidentally closed causing the well pressure to increase and to blow out the stuffing box. The well was subsequently shut in and the packing was repaired. Approximately eight (8) barrels of oil and water were released onto the location and the two-track road located south of the location. A vacuum truck and backhoe were brought to the site. Seven (7) barrels of oil and produced water were recovered. The visually impacted soil on the location was excavated and stockpiled on liner material.

The impacted area on location is estimated to be eight-feet (8') wide by ninety-feet (90') long. The affected area on the two-track road is one to two feet (1-2') wide by one hundred fifty feet (150') in length.

## Sampling Activities and Laboratory Analytical Results

On September 20, 2010 Talon personnel mobilized to the site and began assessment and sampling activities for the construction of a work plan. Grab soil samples were collected from three locations at the surface of the impacted areas. Soil sample one (S-1) was collected from the impacted area on location; soil samples two and three (S-2 and S-3) were collected from the off location flow path. All soil samples were collected using clean nitrile gloves, placed into laboratory provided glassware, iced and delivered to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed pursuant to EPA Test Methods 8021B for BTEX; test method 8015M for TPH; and SM4500Cl-B for Chlorides. The complete laboratory report is attached in Appendix II.

On September 28, 2010 Talon personnel returned to the site with a backhoe to obtain samples for vertical delineation purposes. Test pits were excavated at the locations previously sampled. Samples were obtained at depths ranging from 1-foot to nine feet (1'-9') deep. All soil samples were collected using clean nitrile gloves, placed into laboratory provided glassware, iced and delivered to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed pursuant to EPA Test Methods 8021B for BTEX; test method 8015M for TPH; and SM4500Cl-B for Chlorides. The complete laboratory report is appended hereto and summarized on the following table.

<u>Sample Location, depth (feet)</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-1, 0' bgs	78.37	20,196	13,200 mg/kg
S-1, 1'	<50	ND*	**
S-1, 3'	ND	ND	2,720
S-1, 6'	**	**	3,040

<u>Sample Location (feet)</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-2, 0' bgs	93.98	19,250	48 mg/kg
S-2, 1'	<50	27.1	ND
S-2, 3'	ND	ND	48
S-2, 6'	ND	ND	ND
S-2, 9'	**	**	32
S-3, 0'	ND	3,020	96
S-3, 3'	**	**	48

\*ND: Not Detected within laboratory method detection limits.

\*\* Analyte not tested.

### **Summary and Conclusions**

- Groundwater depth in the project vicinity is greater than 200-feet below land surface per the New Mexico State Engineer Database.
- Analytical results indicate that BTEX and TPH exceed the Recommended Remedial Action Level (RRAL) only at land surface within the impacted area. BTEX and TPH do not exceed their RRAL's at depths greater than 1-foot deep at all three locations sampled.
- Analytical results indicate that Chlorides above background levels were detected at depth only at sample S-1, which is on the well location. This may indicate possible historic chloride impacts on location.

### **Proposed Remedial Actions**

- Linn Energy requests permission to treat the impacted areas with nitrogen fertilizer, and then aerate the treated soil utilizing tiller-blade techniques.
- Confirmation soil samples will be collected and analyzed from the treated area to determine the effectiveness of the nitrogen application in forty-five to sixty (45-60) days.

- Sampling and treatment will continue as previously described until analytical results indicate that BTEX and TPH levels have been corrected to their acceptable RRAL's.
- The chloride impacted area on location will be excavated to 4-feet below land surface. The removed soil will be transported to a NMOCD approved solid waste facility. A one foot (1') thick compacted clay barrier will be placed into the excavated area. The excavation will be backfilled to grade using clean material transported to the location.
- A final closure report for this release will be provided to the NMOCD that contains details of all remedial actions taken, laboratory reports and Form C-141.

If we can be of further assistance or provide additional information, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE



Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**  
**STATE GROUNDWATER DATA**  
**FORM C-141**

**APPENDIX II**

**LABORATORY ANALYTICAL REPORT**

**APPENDIX I**

**STATE GROUNDWATER DATA**

**FORM C-141**



# 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 03435 APPRO	PRO	LE	LE	1	1	05	16S	31E	602954	3646955*				
L 04671	PRO	LE	LE	1	1	2	12	16S	31E	610114	3645538*	340	288	52
L 04671 APPRO	PRO	LE	LE	1	1	2	12	16S	31E	610114	3645538*	340	288	52
L 10203	STK	LE	LE	4	4	2	14	16S	31E	609130	3643310*	310		
L 10206	STK	LE	LE	2	2	23	16S	31E	609045	3642204*	280			

Average Depth to Water: **288 feet**

Minimum Depth: **288 feet**

Maximum Depth: **288 feet**

**Record Count: 5**

**PLSS Search:**

Township: 16S      Range: 31E

\*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.

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 October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Linn Operating	Contact Dennis Potter
Address 13694 Lovington Hwy. Loco Hills, N.M. 88255	Telephone No. 505-206-7673
Facility Name Turner B #104	Facility Type Producing well
Surface Owner B.L.M.	Mineral Owner Fed. Gov't.
Lease No. NMLCD 29395B API # 3001526696	

**LOCATION OF RELEASE**

Unit Letter	Section 20	Township 17S	Range 31E	Feet from the	North/South Line 160' FSL	Feet from the	East/West Line 1370' FWL	County EDDY
-------------	------------	--------------	-----------	---------------	---------------------------	---------------	--------------------------	-------------

Latitude 37.8272 Longitude 103.8965

**NATURE OF RELEASE**

Type of Release OIL & WATER	Volume of Release 8 BBLs	Volume Recovered 7 BBLs
Source of Release PRODUCING WELL	Date and Hour of Occurrence 9/17/10 3:00am	Date and Hour of Discovery 9/17/10 8:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Terry Gregston	
By Whom? Dennis Potter	Date and Hour 9/17/10 9:00am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**RECEIVED**  
 DEC 27 2010  
 NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The flow line valve somehow was shut during the night causing the well to pressure up and blow out the stuffing box. Approx. 8 bbls. total fluid was released. I immediately called a vacuum truck to pick up fluids and a backhoe to pick up contaminated soil. Immediately flowing this I notified our office and called the BLM office.

Describe Area Affected and Cleanup Action Taken.\*

affected area was the location and a small amount had run off the pad. The fluid was picked up and the contaminated soil was also picked up and placed onto some plastic. Talon LPE was called to come out to get soil samples and they were sent to cardinal labs. Further soil remediation will be determined after tests results are received.

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**

*Dennis J. Potter*  
Signature:

Approved by District Supervisor:

Printed Name: Dennis J. Potter

Title: Production Specialist / Asst. Production Foreman

Approval Date:

Expiration Date:

E-mail Address: dpotter@linnenergy.com

Conditions of Approval:

Attached

**APPENDIX II**

**LABORATORY ANALYTICAL REPORT**

September 27, 2010

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

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/20/10 15:28.

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:	09/20/2010	Sampling Date:	09/20/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

**Sample ID: S - 1 (H020889-01)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.325</b>	0.250	09/20/2010	ND	1.02	102	1.00	3.57		
<b>Toluene*</b>	<b>6.55</b>	0.250	09/20/2010	ND	1.12	112	1.00	4.42		
<b>Ethylbenzene*</b>	<b>20.4</b>	0.250	09/20/2010	ND	1.13	113	1.00	2.83		
<b>Total Xylenes*</b>	<b>51.1</b>	0.750	09/20/2010	ND	3.36	112	3.00	3.77		

Surrogate: 4-Bromofluorobenzene (PIL) 91.1 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>13200</b>	16.0	09/21/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>696</b>	100	09/25/2010	ND	168	83.9	200	6.68		
<b>DRO &gt;C10-C28</b>	<b>19500</b>	100	09/25/2010	ND	191	95.6	200	8.79		

Surrogate: 1-Chlorooctane 14.8 % 70-130

Surrogate: 1-Chlorooctadecane 15.7 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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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: 09/20/2010  
Reported: 09/27/2010  
Project Name: TURNER B #104  
Project Number: NONE GIVEN  
Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/20/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 2 (H020889-02)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.250	0.250	09/20/2010	ND	1.02	102	1.00	3.57		
Toluene*	4.28	0.250	09/20/2010	ND	1.12	112	1.00	4.42		
Ethylbenzene*	25.3	0.250	09/20/2010	ND	1.13	113	1.00	2.83		
Total Xylenes*	64.4	0.750	09/20/2010	ND	3.36	112	3.00	3.77		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 80-120

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	09/21/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1450	100	09/25/2010	ND	168	83.9	200	6.68			
DRO >C10-C28	17800	100	09/25/2010	ND	191	95.6	200	8.79			

Surrogate: 1-Chlorooctane 21.1 % 70-130

Surrogate: 1-Chlorooctadecane 14.4 % 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: 09/20/2010  
Reported: 09/27/2010  
Project Name: TURNER B #104  
Project Number: NONE GIVEN  
Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/20/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 3 (H020889-03)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	09/20/2010	ND	1.02	102	1.00	3.57		
Toluene*	<0.025	0.025	09/20/2010	ND	1.12	112	1.00	4.42		
Ethylbenzene*	<0.025	0.025	09/20/2010	ND	1.13	113	1.00	2.83		
Total Xylenes*	<0.075	0.075	09/20/2010	ND	3.36	112	3.00	3.77		

Surrogate: 4-Bromofluorobenzene (PIL) 97.8 % 80-120

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	09/21/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/25/2010	ND	168	83.9	200	6.68		
DRO >C10-C28	3020	10.0	09/25/2010	ND	191	95.6	200	8.79		

Surrogate: 1-Chlorooctane 88.3 % 70-130

Surrogate: 1-Chlorooctadecane 89.8 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>Talon/LPE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <b>Mike Stubblefield</b>		P.O. #:																						
Address: <b>408 W. Texas Ave.</b>		Company: <b>LINN OPER.</b>																						
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>		Attn: <b>ALBERT VALERO</b>																						
Phone #: <b>505-441-7254</b> Fax #: <b>505-746-8768</b>		Address: <b>P.O. 13870</b>																						
Project #: _____ Project Owner: <b>LINN Oper.</b>		City: <b>Odessa</b>																						
Project Name: <b>Turner B #104</b>		State: <b>Tx.</b> Zip: <b>79748</b>																						
Project Location: <b>UTN sec. 17-71s-31e</b>		Phone #: <b>432-366-1972</b>																						
Sampler Name: <b>Mike Stubblefield</b>		Fax #:																						
FOR LAB USE ONLY				MATRIX			PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	TPH 8015M	BTEX 8021	TOTAL CHLORIDES							
<b>A20889-1</b>	<b>S-1</b>	<b>G</b>				✓					✓		<b>9/20/2010</b>	<b>2:20P</b>	✓	✓	✓							
<b>-2</b>	<b>S-2</b>	<b>G</b>				✓					✓		<b>9/20/2010</b>	<b>2:25P</b>	✓	✓	✓							
<b>3</b>	<b>S-3</b>	<b>G</b>				✓					✓		<b>9/20/2010</b>	<b>2:30P</b>	✓	✓	✓							

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 the client for the 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 30 days after completion of the appropriate service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <b>9/20/2010</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #:
<b>Mike Stubblefield</b>	Time: <b>3:28 PM</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:	<b>Albi Hanson</b>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	Cool - Intact	(Initials)	
	<b>50</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CH</b>	

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

#26

October 05, 2010

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

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/29/10 11:00.

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: 09/29/2010  
 Reported: 10/05/2010  
 Project Name: TURNER B #104  
 Project Number: 700813.002.01  
 Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/28/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 001 5 - 1 1' BGS (H020943-01)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00			
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00			
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00			
<b>Total Xylenes*</b>	<b>0.098</b>	<b>0.075</b>	<b>09/30/2010</b>	<b>ND</b>	<b>6.20</b>	<b>103</b>	<b>6.00</b>			

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 80.2 % 70-130

Surrogate: 1-Chlorooctadecane 83.1 % 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: 09/29/2010  
 Reported: 10/05/2010  
 Project Name: TURNER B #104  
 Project Number: 700813.002.01  
 Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/28/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 002 5 - 1 3' BGS (H020943-02)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00			
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00			
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00			
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00			

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 80-120

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	09/30/2010	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 87.0 % 70-130

Surrogate: 1-Chlorooctadecane 91.0 % 70-130

**Sample ID: 003 5 - 1 6' BGS (H020943-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	09/30/2010	ND	400	100	400	7.69		

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:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

**Sample ID: 004 5 - 2 1' BGS (H020943-04)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00			
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00			
Ethylbenzene*	<b>0.172</b>	0.025	09/30/2010	ND	2.05	102	2.00			
Total Xylenes*	<b>0.395</b>	0.075	09/30/2010	ND	6.20	103	6.00			

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
<b>DRO &gt;C10-C28</b>	<b>27.1</b>	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 86.1 % 70-130

Surrogate: 1-Chlorooctadecane 86.7 % 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: 09/29/2010  
 Reported: 10/05/2010  
 Project Name: TURNER B #104  
 Project Number: 700813.002.01  
 Project Location: UT N SEC. 17-37S-31E

 Sampling Date: 09/28/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 005 5 - 2 3' BGS (H020943-05)**

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00		
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00		
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00		
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00		

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1	

Surrogate: 1-Chlorooctane 91.4 % 70-130

Surrogate: 1-Chlorooctadecane 93.7 % 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:	09/29/2010	Sampling Date:	09/28/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	TURNER B #104	Sampling Condition:	Cool & Intact
Project Number:	700813.002.01	Sample Received By:	Jodi Henson
Project Location:	UT N SEC. 17-37S-31E		

**Sample ID: 006 5 - 2 6' BGS (H020943-06)**

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	09/30/2010	ND	1.74	87.2	2.00			
Toluene*	<0.025	0.025	09/30/2010	ND	2.00	99.8	2.00			
Ethylbenzene*	<0.025	0.025	09/30/2010	ND	2.05	102	2.00			
Total Xylenes*	<0.075	0.075	09/30/2010	ND	6.20	103	6.00			

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 80.7 % 70-130

Surrogate: 1-Chlorooctadecane 82.1 % 70-130

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### Notes and Definitions

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

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Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



October 12, 2010

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 09/29/10 11:00.

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: 09/29/2010  
 Reported: 10/12/2010  
 Project Name: TURNER B #104  
 Project Number: 700813.002.01  
 Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/28/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 004 5 - 2 1' BGS (H020943-04)**

Chloride, SM4500CI-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	10/12/2010	ND	432	108	400	3.77		

**Sample ID: 005 5 - 2 3' BGS (H020943-05)**

Chloride, SM4500CI-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	10/12/2010	ND	432	108	400	3.77		

**Sample ID: 006 5 - 2 6' BGS (H020943-06)**

Chloride, SM4500CI-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	10/12/2010	ND	432	108	400	3.77		

**Sample ID: 007 5 - 2 9' BGS (H020943-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/12/2010	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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <u>Talon / CPE</u>		ANALYSIS REQUEST	
Project Manager: <u>MIKE STUBBLEFIELD</u>		P.O. #:	
Address: <u>408 W. TERRA AVE</u>		Company: <u>Linn Operator</u>	
City: <u>Artista</u>	State: <u>NM</u> Zip: <u>88210</u>	Attn: <u>Albert Velero</u>	
Phone #: <u>575-746-8769</u>	Fax #: <u>575-746-8905</u>	Address: <u>P.O. 13820</u>	
Project #: <u>200813, 002.01</u>	Project Owner: <u>Linn</u>	City: <u>O</u>	
Project Name: <u>Turner B #104</u>	State: _____ Zip: _____		
Project Location: <u>See ^</u>	Phone #: _____		
Sampler Name: <u>MIKE STUBBLEFIELD</u>	Fax #: _____		

Lab I.D.	Sample I.D.	FOR LAB USE ONLY	GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING		TPH 8015	BTEX-804P	Total Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE				TIME
H209431	001 S-1 1' bgs		G			✓				✓			9/28/2010	9:55A	✓	✓	
2	002 S-1 3' bgs		G			✓				✓			9/28/2010	9:59A	✓	✓	✓
3	003 S-1 6' bgs		G			✓				✓			9/28/2010	9:09A			✓
4	004 S-2 1' bgs		G			✓				✓			9/28/2010	9:25A	✓	✓	✓
5	005 S-2 3' bgs		G			✓				✓			9/28/2010	9:30A	✓	✓	✓
6	006 S-2 6' bgs		G			✓				✓			9/28/2010	9:37A	✓	✓	✓
7	007 S-2 9' bgs		G			✓				✓			9/28/2010	9:50A	hold	cl	✓
	008 S-3 1' bgs		G			✓				✓			9/28/2010	10:05A	✓	✓	
	009 S-3 3' bgs		G			✓				✓			9/28/2010	10:06A	✓	✓	
	010 S-3 6' bgs		G			✓				✓			9/28/2010	10:21A	✓	✓	

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>9/29/2010</u>	Time: <u>11:00 AM</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <u>9/29/10</u>	Time: <u>11:00</u>	Received By: <u>Jodi Benson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	REMARKS: <u>Hold #7 for results.</u> <u>Chloride #4-7 added as per Mike 10/10/10 ch.</u>		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<u>JH</u>			

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

#26

October 18, 2010

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

RE: TURNER B #104

Enclosed are the results of analyses for samples received by the laboratory on 10/15/10 15:00.

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Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

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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: 10/15/2010  
 Reported: 10/18/2010  
 Project Name: TURNER B #104  
 Project Number: 700813.002.01  
 Project Location: UT N SEC. 17-37S-31E

Sampling Date: 09/28/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 009 5 - 3 3' BGS (H021078-01)**

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	10/16/2010	ND	416	104	400	0.00		

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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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