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## **Remediation and Closure Report**

Cedar Canyon 22 CTB

2RP-4274

Talon Project No. 702231.002.01

### **Prepared For:**

Bridger Logistics

2009 Chenault Drive

Carrollton, Texas 75006

### **Prepared By:**

Kimberly M. Wilson

TALON/LPE

408 W. Texas Avenue

Artesia, New Mexico 88210

**August 1, 2017**

Ms. Crystal Weaver  
NMOCD District 2  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Remediation and Closure Report**  
**Cedar Canyon 22 CTB**  
**2RP-4274**

Dear Ms. Weaver,

Bridger Logistics has contracted Talon/LPE (Talon) to perform remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

### Site Information

The Cedar Canyon is located approximately sixty-two (62) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter L, Section 22, Township 24 South and Range 29 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.199583 North and -103.978197 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service (NRCS) the soil in this area is made up of Simona-Bippus complex with 0 to 5 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of Quaternary Age sedimentary deposits which are comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry.

### Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that there is no known ground water in the area. See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

## Incident Description and Initial Remedial Actions

A driver error during truck load/unload resulted in the release of approximately 12bbls of crude oil with no recovery. The release originated at the truck load outs and flowed south across the location for approximately 120-feet and into the pasture just off the side of the location. The spill was reported to the OCD. The extent of the impact is shown on the attached site plan presented in [Appendix I](#).

## Remedial Actions Taken

Talon/LPE was contracted by Bridger Logistics for the correction of this release. The remediation activities were completed per the NMOCD Rules and Regulations. The contaminated soil within the impacted area was excavated to depths ranging from 0.5-feet to 5-feet below ground surface (BGS). Confirmation soil samples were obtained from the bottom of the excavation. The impacted area in the vicinity of sample location S-1 was excavated to a depth of 1-foot BGS. The impacted area in the vicinity of sample location S-2 was excavated to a depth of 2.5-feet BGS. The impacted area in the vicinity of sample location S-3 was excavated to a depth of 0.5-feet BGS. The impacted area in the vicinity of sample location S-4 was excavated to a depth of 2-feet BGS. The impacted area in the vicinity of sample location S-5 was excavated to a depth of 5-feet deep.

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

May 17, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	<0.300	832	<10	<10
S-2	2.5'	<0.300	336	<10	<10
S-3	0.5'	<0.300	<16	<10	<10
S-4	2'	<0.300	32	<10	<10
S-5	5'	<0.300	16	<10	<10

The sample results indicate that the remaining soil is under NMOCD Recommended Remedial Action Level's (RRAL's).

A total of 126.0 tons of contaminated soil was transported to Lea Land, LLC, for disposal. Copies of Lea Land, LLC manifests are presented in [Appendix IV](#). The work area was backfilled with clean caliche which was obtained from Lea Land, LLC and then contoured to match the surrounding terrain.

## Closure


On behalf of Bridger Logistics, we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached as [Appendix V](#).

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

  
Sheldon L. Hitchcock  
Project Manager

  
David J. Adkins  
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data
- Appendix III Initial & Final C-141's
- Appendix IV Laboratory Results
- Appendix V Lea Land Manifests



# APPENDIX I

## SITE PLAN

# Oxy: Cedar Canyon 22 CTB

Bridger Group

**Legend**

-  Impacted Area
-  Sample Location



# APPENDIX II

## GROUNDWATER DATA



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# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

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

**Easting (X):** 596160

**Northing (Y):** 3562683

**Radius:** 2000

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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.

---

6/26/17 2:13 PM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



**APPENDIX III**  
**INITIAL C-141**  
**&**  
**FINAL C-141**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 27 2017

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

**RECEIVED**

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

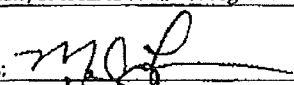
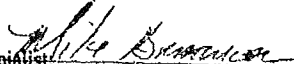
<b>PAB1718140445</b>		<b>Release Notification and Corrective Action</b>	
<b>NAB1718140592</b>		<b>OPERATOR</b>	
		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: <b>Bridger Logistics</b> <span style="float:right">318074</span>		Contact: <b>Melvin Franklin</b>	
Address: <b>2009 Chenault Dr, Carrollton, TX 75006</b>		Telephone No. <b>575-291-9018</b>	
Facility Name: <b>Oxy: Cedar Canyon 22 CTB</b>		Facility Type: <b>Tank Battery</b>	
Surface Owner: <b>Fee</b>		Mineral Owner:	API No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	22	24S	29E					Eddy

Latitude 32.199583 Longitude -103.978197

**NATURE OF RELEASE**

Type of Release: <b>Crude Oil</b>	Volume of Release: <b>12bbbls</b>	Volume Recovered: <b>0bbbls</b>
Source of Release: <b>Tanker Truck</b>	Date and Hour of Occurrence: <b>6/21/17 12:00 am</b>	Date and Hour of Discovery: <b>6/21/17 12:00am</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A driver error during truck load/unload resulted in the release of approximately 12bbbls of crude oil.		
Describe Area Affected and Cleanup Action Taken.* The release originated at the truck load outs and flowed south across the location for approximately 120-feet and into the pasture just off the side of the location. Crews will excavate the impacted soil and collect confirmation sampling upon clearance of utility locates.		
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>Melvin Franklin</b>	Approved by Environmental Specialist: 	
Title: <b>Area Operations Manager</b>	Approval Date: <b>6/30/17</b>	Expiration Date: <b>NIA</b>
E-mail Address: <b>mfranklin@bridgergroup.com</b>	Conditions of Approval: <b>See attached</b>	Attached <input type="checkbox"/>
Date: <b>6/21/2017</b>	Phone: <b>575-291-9018</b>	

\* Attach Additional Sheets If Necessary

Please refer to the New Mexico Oil Conservation Division Website for updated form(s) at:  
<http://www.emnrd.state.nm.us/OCD/forms.html>  
Thank you

2RP-4274

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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: Bridger Logistics	Contact: Melvin Franklin
Address: 2009 Chenault Dr, Carrollton, TX 75006	Telephone No. 575-291-9018
Facility Name: Oxy: Cedar Canyon 22 CTB	Facility Type: Tank Battery

Surface Owner: Fee	Mineral Owner:	API No.
--------------------	----------------	---------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	22	24S	29E					Eddy

Latitude 32.199583 Longitude -103.978197

**NATURE OF RELEASE**


Type of Release: Crude Oil	Volume of Release: 12bbbls	Volume Recovered: 0bbbls
Source of Release: Tanker Truck	Date and Hour of Occurrence: 6/21/17 12:00 am	Date and Hour of Discovery: 6/21/17 12:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A driver error during truck load/unload resulted in the release of approximately 12bbbls of crude oil. The release originated at the truck load outs and flowed south across the location for approximately 120-feet and into the pasture just off the south side of the location.

Describe Area Affected and Cleanup Action Taken.\*  
Talon/LPE was contracted by Bridger Logistics for the correction of this release. The remediation activities were completed per the NMOCD Rules and Regulations. The contaminated soil within the impacted area was subsequently excavated to a depth of 0.5-feet to 5-feet and confirmation samples were obtained. The impacted area around the vicinity of S-1 was excavated to a depth of 1-foot deep and the impacted area at S-2 was excavated to a depth of 2.5-feet deep. The area around S-3 and S-5 was excavated to a depth of 0.5-foot deep. The impacted area at S-4 was excavated to a depth of 2-foot deep and the area at S-5 was excavated to a depth of 5-foot deep. The sample results indicate that the remaining soil is under NMOCD Recommended Remedial Action Level's (RRAL's). A total of 126 tons of contaminated soil was transported to Lea Land, LLC, for disposal. The work area was backfilled with clean caliche which was obtained from Lea Land, LLC and contoured to match the surrounding location.

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: Melvin Franklin	Approved by Environmental Specialist:	
Title: Area Operations Manager	Approval Date:	Expiration Date:
E-mail Address: mfranklin@bridgergroup.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/24/2017	Phone: 575-291-9018	

\* Attach Additional Sheets If Necessary

# APPENDIX IV

## LABORATORY RESULTS

June 27, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CEDAR CANYON 22

Enclosed are the results of analyses for samples received by the laboratory on 06/26/17 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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

**Analytical Results For:**

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

Received:	06/26/2017	Sampling Date:	06/26/2017
Reported:	06/27/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' (H701661-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2017	ND	2.21	111	2.00	0.417		
Toluene*	<0.050	0.050	06/27/2017	ND	2.00	100	2.00	1.29		
Ethylbenzene*	<0.050	0.050	06/27/2017	ND	2.09	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	06/27/2017	ND	6.12	102	6.00	1.46		
Total BTEX	<0.300	0.300	06/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>832</b>	16.0	06/27/2017	ND	480	120	400	10.5		

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	06/26/2017	ND	203	101	200	4.16		
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	211	106	200	5.30		

Surrogate: 1-Chlorooctane 96.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 06/26/2017  
 Reported: 06/27/2017  
 Project Name: CEDAR CANYON 22  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-2 2.5' (H701661-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2017	ND	2.21	111	2.00	0.417		
Toluene*	<0.050	0.050	06/27/2017	ND	2.00	100	2.00	1.29		
Ethylbenzene*	<0.050	0.050	06/27/2017	ND	2.09	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	06/27/2017	ND	6.12	102	6.00	1.46		
Total BTEX	<0.300	0.300	06/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/27/2017	ND	480	120	400	10.5		

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	06/26/2017	ND	203	101	200	4.16		
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	211	106	200	5.30		

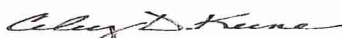
Surrogate: 1-Chlorooctane 96.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 06/26/2017  
 Reported: 06/27/2017  
 Project Name: CEDAR CANYON 22  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S-3 0.5' (H701661-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2017	ND	2.21	111	2.00	0.417		
Toluene*	<0.050	0.050	06/27/2017	ND	2.00	100	2.00	1.29		
Ethylbenzene*	<0.050	0.050	06/27/2017	ND	2.09	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	06/27/2017	ND	6.12	102	6.00	1.46		
Total BTEX	<0.300	0.300	06/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2017	ND	480	120	400	10.5		

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	06/26/2017	ND	203	101	200	4.16		
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	211	106	200	5.30		

Surrogate: 1-Chlorooctane 99.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 100 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	06/26/2017	Sampling Date:	06/26/2017
Reported:	06/27/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-4 2' (H701661-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2017	ND	2.21	111	2.00	0.417	
Toluene*	<0.050	0.050	06/27/2017	ND	2.00	100	2.00	1.29	
Ethylbenzene*	<0.050	0.050	06/27/2017	ND	2.09	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	06/27/2017	ND	6.12	102	6.00	1.46	
Total BTEX	<0.300	0.300	06/27/2017	ND					

*Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/27/2017	ND	480	120	400	10.5	

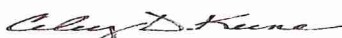
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2017	ND	203	101	200	4.16	
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	211	106	200	5.30	

*Surrogate: 1-Chlorooctane 98.1 % 28.3-164*
*Surrogate: 1-Chlorooctadecane 93.8 % 34.7-157*

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/26/2017	Sampling Date:	06/26/2017
Reported:	06/27/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: S-5 5' (H701661-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2017	ND	2.21	111	2.00	0.417		
Toluene*	<0.050	0.050	06/27/2017	ND	2.00	100	2.00	1.29		
Ethylbenzene*	<0.050	0.050	06/27/2017	ND	2.09	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	06/27/2017	ND	6.12	102	6.00	1.46		
Total BTEX	<0.300	0.300	06/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2017	ND	480	120	400	10.5		

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	06/26/2017	ND	203	101	200	4.16		
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	211	106	200	5.30		

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- 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



---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**BILL TO**

**ANALYSIS REQUEST**

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Talon/LPE  
Project Manager: S. HITCHCOCK

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: Project Owner: Bridger

Project Name: Cedar Canyon 22

Project Location:

Sampler Name: S. HITCHCOCK

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides
Handwritten	5-1 1'	G	1	/	/	/	/	/	/	/	/	/	6/24/17	11:30	/	/	/
	5-2 2.5'	G	1	/	/	/	/	/	/	/	/	/		11:00	/	/	/
	5-3 0.5'	G	1	/	/	/	/	/	/	/	/	/		12:06	/	/	/
	5-4 2'	G	1	/	/	/	/	/	/	/	/	/		12:10	/	/	/
	5-5 6'	G	1	/	/	/	/	/	/	/	/	/		12:30	/	/	/

PLEASE NOTE: Liability and Damages. Cardinal's facility 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 applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received By: [Signature]  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

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

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other: 34#

Sample Condition  
 Yes  No  
 Intact  No

REMARKS:  
RUSH

**APPENDIX V**  
**DISPOSAL MANIFESTS**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Gemini*

### NON-HAZARDOUS WASTE MANIFEST

NO **118617**

1. PAGE    OF   

2. TRAILER NO. # **321**

<b>G E N E R A T O R</b>	3. COMPANY NAME <b>Talon LPE / Bridger</b>	4. ADDRESS <b>2901 S. State Highway 349</b>	5. PICK-UP DATE <b>6/28/2017</b>
	PHONE NO. <b>(575) 441-4835</b>	CITY STATE ZIP <b>Artesia NM 88220</b>	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. <del>Non-Regulated, Non-Hazardous Waste</del>					
b.					
c.					
d. <b>WT: 39460 35560 35,480</b>					

12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>CEDAR LAKE # 22</b>	13. WASTE PROFILE NO.
---	-----------------------

**PO 70223100201 TC 110,500**

14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>		
NAME <b>Kim Slaughter</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

**15. GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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<b>16. TRANSPORTER (1)</b> NAME: <b>TALON, LPE</b> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <b>DAVID ADKINS</b> <b>(575) 441-4835</b> EMERGENCY PHONE:	<b>17. TRANSPORTER (2)</b> NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
---	--

<b>18. TRANSPORTER (1):</b> Acknowledgment of receipt of material PRINTED/TYPED NAME <b>Alvaro Rojas</b> SIGNATURE <i>Alvaro Rojas</i> DATE <b>6/28/2017</b>	<b>19. TRANSPORTER (2):</b> Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
--	---

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---------------	---	------------------------

PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	--------------

**21. DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>Monica Sotiveros</i>	CELL NO.	DATE <b>6/28/2017</b>	TIME <b>7:10</b>
---	----------	--------------------------	---------------------

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Gemini*

### NON-HAZARDOUS WASTE MANIFEST

NO **118618**

1. PAGE     OF    

2. TRAILER NO. # **3116**

<b>G</b>	3. COMPANY NAME <b>Talon LPE / Bridger</b>	4. ADDRESS <b>2801 S. State Highway 348</b>	5. PICK-UP DATE <b>6/26/2017</b>	
	PHONE NO. <b>(575) 441-4835</b>	CITY STATE ZIP <b>Artesia NM 88220</b>	6. TNRCC I.D. NO.	

E	N	E	R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
				a.	No.	Type		
				<b>Non-Regulated, Non-Hazardous Waste</b>				
				b.				
				c.				
				d. <b>WT:</b>				
				<b>38,380 35,280 34,280</b>				

12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>CEDAR LAKE #22</b>	13. WASTE PROFILE NO.
<b>PO: 7022.31002.01 TOTAL 107940</b>	

14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>		
NAME <b>Tim Slaughter</b>	PHONE <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

**15. GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

<b>T</b>	<b>R</b>	<b>A</b>	<b>N</b>	<b>S</b>	<b>P</b>	<b>O</b>	<b>R</b>	<b>T</b>	<b>E</b>	<b>R</b>	<b>S</b>
16. <b>TRANSPORTER (1)</b>						17. <b>TRANSPORTER (2)</b>					
NAME: <b>TALON, LPE</b>						NAME:					
TEXAS I.D. NO. <b>DAVID ADKINS</b>						TEXAS I.D. NO.					
IN CASE OF EMERGENCY CONTACT: <b>(575) 441-4835</b>						IN CASE OF EMERGENCY CONTACT:					
EMERGENCY PHONE:						EMERGENCY PHONE:					

18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material	19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material
PRINTED/TYPED NAME <b>Jesus C. Rodriguez</b>	PRINTED/TYPED NAME _____
SIGNATURE <b>Jesus C. R.</b>	SIGNATURE _____
DATE <b>6/26/2017</b>	DATE _____

D F I A S P I O L S I A T L Y	ADDRESS: <b>Lea Land, LLC</b> <b>Mile Marker 64, U.S. Hwy 62/180,</b> <b>30 Miles East of Carlsbad, NM</b>	PHONE: <b>575-887-4048</b>
-------------------------------	---	-------------------------------

PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	--------------

**21. DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <b>Daniel Ontiveros</b>	CELL NO.	DATE <b>6/26/2017</b>	TIME <b>715</b>
---	----------	--------------------------	--------------------

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

G

### NON-HAZARDOUS WASTE MANIFEST

NO **118630**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. **321**

<b>G E N E R A T O R</b>	3. COMPANY NAME <b>Talon LPE / Bridger</b>	4. ADDRESS <b>2901 S. State Highway 349</b>	5. PICK-UP DATE <del>8/25/2017</del> <b>6/27/17</b>
	PHONE NO. <b>(575) 441-4835</b>	CITY STATE ZIP <b>Artesia NM 88220</b>	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. <b>Non-Regulated, Non Hazardous Waste</b>					
b.					
c.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>CEDAR LAKE # 22, po. 70.2231.002.01</b>	13. WASTE PROFILE NO.
---	-----------------------

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME <b>Kin Slaughter</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

**15. GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

<b>16. TRANSPORTER (1)</b> NAME: <u>TALON LPE</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <b>DAVID ADKINS</b> EMERGENCY PHONE: <b>(575) 441-4835</b>	<b>17. TRANSPORTER (2)</b> NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
---	--

<b>18. TRANSPORTER (1): Acknowledgment of receipt of material</b> PRINTED/TYPED NAME <u>Alvaro Bernal</u> SIGNATURE <u>[Signature]</u> DATE <b>6/27/17</b>	<b>19. TRANSPORTER (2): Acknowledgment of receipt of material</b> PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
--	---

DISPOSAL SITE NAME <b>Lea Land, LLC</b>	ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>	PHONE: <b>575-887-4048</b>
--	---	-------------------------------

PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	--------------

<b>21. DISPOSAL FACILITY'S CERTIFICATION:</b> I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
AUTHORIZED SIGNATURE <u>[Signature]</u>	CELL NO.	DATE <b>6/27/17</b>	TIME <b>7:10</b>





