



December 15, 2015

Mrs. Amanda Trujillo Davis

COG Operating, LLC

1401 Commerce Drive

Carlsbad, NM 88220

AMARILLO

921 North Bivins

Amarillo, Texas 79107

Phone 806.467.0607

Fax 806.467.0622

ARTESIA

408 West Texas Ave.

Artesia, New Mexico 88210

Phone 575.746.8768

Fax 575.748.8905

Subject: **Remedial Activities and Closure Report**

Gibson Energy, LLC

COG-SRO St. Com #043H

30-015-41141 (2RP-3350)

Dear Mrs. Trujillo Davis

HOBBS

318 East Taylor Street

Hobbs, New Mexico 88241

Phone 505.393.4261

Fax 505.393.4658

Gibson Energy, LLC (Gibson) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the Concho Resources SRO St. Com #043H. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

MIDLAND

2901 State Highway 349

Midland, Texas 79706

Phone 432.522.2133

Fax 432.522.2180

Background Information

The SRO St. Com #043H is located approximately thirty-three (33) miles south of Carlsbad, New Mexico. The legal location for this site is Unit Letter D, Section 17, Township 26 South and Range 28 East. More specifically the latitude and longitude for this site are 32.0492096 North and -104.1149597 West. A site plan is presented in [Appendix I](#).

OKLAHOMA CITY

430 West Wilshire, 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 Reagan-Upton association with 0 to 9 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of the Rustler Formation siltstone, gypsum, sandstone and dolomite. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 120-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. [Appendix II](#).

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

Incident Description

Human error caused an oil hauling truck to overfill resulting in a release of approximately 9bbls of crude oil. All of the oil was contained to the SRO #43 location and measured approximately 50 by 60 feet. A vacuum truck was utilized to recover approximately 5bbls of standing fluid. An organic oil sorbent was utilized to further stabilize the surface of the impacted area to protect against movement should a precipitation event occur in the area.

Talon mobilized personnel to conduct a site assessment and soil sampling within the impacted area utilizing a backhoe. Grab soil samples were taken to a depth of 3-feet bgs within the impacted area and surface samples were taken to horizontally delineate the area. Field titration of the soil samples for total chlorides was carried out to guide the sampling process.

Laboratory Results

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

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO/DRO
S-1	0	20.7	416	112	5850
S-1	1	0.63	28.1	816	856
S-1	2	0.09	1.19	64	ND
S-1	3	ND	ND	ND	ND
S-2	0	3.49	149	1520	8300
S-2	1	247	1820	672	35700
S-2	2	0.95	7.97	ND	17.3
S-2	3	0.08	ND	ND	ND
S-3	0	26.7	383	272	9350
S-3	1	0.09	ND	256	16.9
S-3	2	0.05	ND	32	10.4
S-3	3	ND	ND	96	ND
S-4	0	ND	ND	416	33.1
S-5	0	ND	ND	832	229
S-6	0	ND	ND	336	245
S-7	0	ND	ND	1010	320

(ND) Analyte Not Detected

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

Remedial Actions Taken

- In accordance with the approved work plan, the impacted area in the vicinity of sample locations S-1 and S-3 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-feet bgs.
- The impacted area inside of the LACT Unit fence was hand-excavated to a depth of 2-feet bgs.
- All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with caliche and contoured to match the surrounding location.


Closure

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

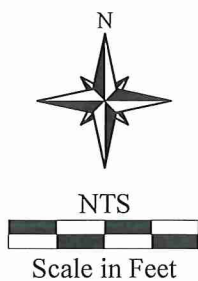
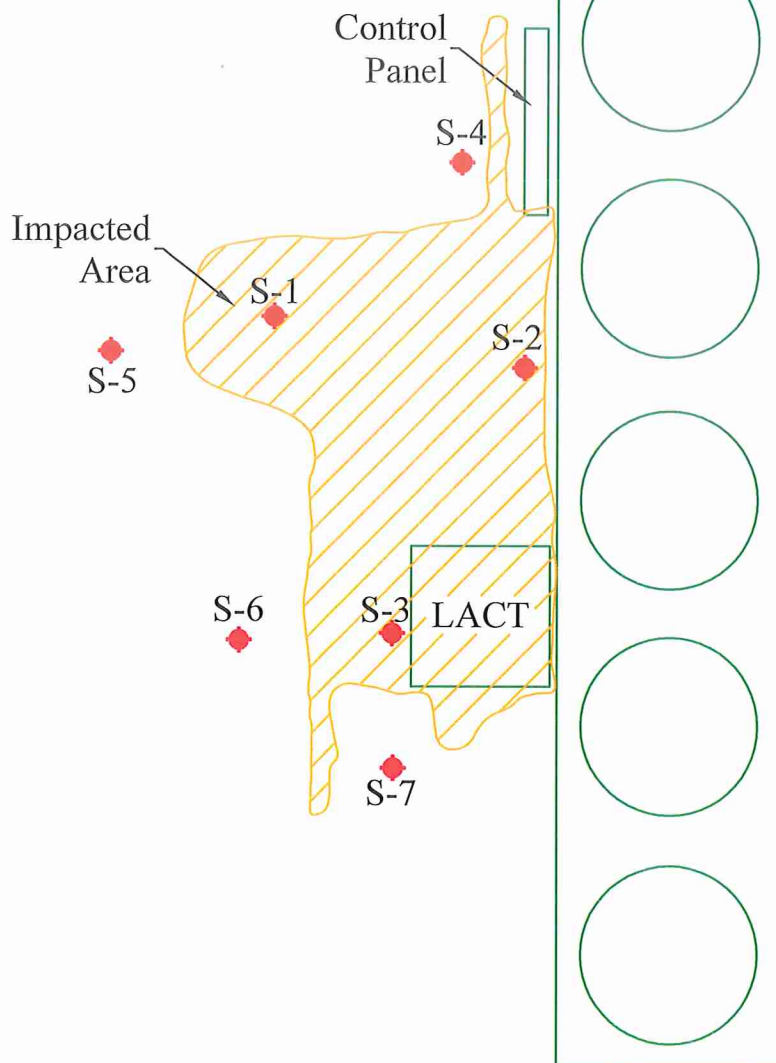
If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,
TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



Date: 10/21/2015

Scale: NTS

Drawn By: TJS

SRO State Com #43
Gibson Energy LLC
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA



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
C 02475	CUB	ED		2	4	13	26S	27E		581450	3545252*	2174	100		
C 02478	CUB	ED		2	1	05	26S	28E		583848	3549325*	3268	100		
C 02476	CUB	ED		4	1	24	26S	27E		580653	3544032*	3474	150		
C 02160 S7		ED		3	3	1	22	26S	28E	586638	3543998*	3797	300	120	180

Average Depth to Water: 120 feet

Minimum Depth: 120 feet

Maximum Depth: 120 feet

Record Count: 4

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 583461

Northing (Y): 3546079

Radius: 4000

*UTM location was derived from PLSS - see Help

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

INITIAL C-141

&

Final C-141

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: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: SRO State Com #43	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. 30-015-41141
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LOCATION OF RELEASE

Unit Letter D	Section 17	Township 26S	Range 28E	Feet from the 190'	North/South Line North	Feet from the 990'	East/West Line West	County Eddy
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Latitude 32.0492096 Longitude -104.1149597

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 9 bbls	Volume Recovered: 5 bbls
Source of Release: Oil Hauler	Date and Hour of Occurrence: 10/19/2015 5:30 pm	Date and Hour of Discovery: 10/19/2015 5:30 pm
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.*


While pulling a load of oil the truck driver overfilled his truck causing the oil to spill onto the location. A vacuum truck was able to recover 5 bbls of fluid. This release was caused by a third party oil hauler, Gibson Energy.

Describe Area Affected and Cleanup Action Taken.*

The impacted area remained on the pad near the LACT. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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 Environmental Specialist:		
Printed Name: Amanda Trujillo Davis			
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: November 1, 2015 Phone: 575-748-6940			

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

November 04, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SRO STATE COM #43

Enclosed are the results of analyses for samples received by the laboratory on 11/03/15 14:28.

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.

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: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-1 0' (H502896-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	20.7	2.00	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	135	2.00	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	32.4	2.00	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	228	6.00	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	416	12.0	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1060	10.0	11/04/2015	ND	204	102	200	0.722		
DRO >C10-C28	4790	10.0	11/04/2015	ND	214	107	200	2.98		

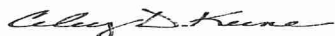
Surrogate: 1-Chlorooctane 168 % 35-147

Surrogate: 1-Chlorooctadecane 212 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-1 1' (H502896-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.625	0.100	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	6.24	0.100	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	2.52	0.100	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	18.8	0.300	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	28.1	0.600	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	225	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	631	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 116 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-1 2' (H502896-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.092	0.050	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	0.461	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	0.071	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	0.564	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	1.19	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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*=Accredited Analyte

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

 Received: 11/03/2015
 Reported: 11/04/2015
 Project Name: SRO STATE COM #43
 Project Number: 701866.004.01
 Project Location: NONE GIVEN

 Sampling Date: 11/03/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: S-1 3' (H502896-04)

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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

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	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	214	107	200	2.98	

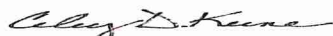
Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-2 0' (H502896-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.49	1.00	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	35.0	1.00	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	13.1	1.00	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	97.7	3.00	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	149	6.00	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1150	10.0	11/04/2015	ND	204	102	200	0.722		
DRO >C10-C28	7150	10.0	11/04/2015	ND	214	107	200	2.98		

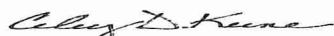
Surrogate: 1-Chlorooctane 174 % 35-147

Surrogate: 1-Chlorooctadecane 230 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-2 1' (H502896-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	247	20.0	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	737	20.0	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	106	20.0	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	731	60.0	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	1820	120	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	19000	200	11/04/2015	ND	182	91.2	200	6.72		
DRO >C10-C28	16700	200	11/04/2015	ND	169	84.4	200	13.6		

Surrogate: 1-Chlorooctane 905 % 35-147

Surrogate: 1-Chlorooctadecane 301 % 28-171

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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: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-2 2' (H502896-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.950	0.050	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	3.13	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	0.468	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	3.41	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	7.97	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.3	10.0	11/04/2015	ND	182	91.2	200	6.72	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	169	84.4	200	13.6	


Surrogate: 1-Chlorooctane 78.5 % 35-147

Surrogate: 1-Chlorooctadecane 68.6 % 28-171

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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: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-2 3' (H502896-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.084	0.050	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	0.111	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

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	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	214	107	200	2.98	

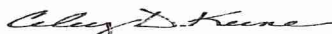
Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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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: 11/03/2015
 Reported: 11/04/2015
 Project Name: SRO STATE COM #43
 Project Number: 701866.004.01
 Project Location: NONE GIVEN

 Sampling Date: 11/03/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: S-3 0' (H502896-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.7	2.00	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	124	2.00	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	29.2	2.00	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	203	6.00	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	383	12.0	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2140	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	7210	10.0	11/04/2015	ND	214	107	200	2.98	


Surrogate: 1-Chlorooctane 210 % 35-147

Surrogate: 1-Chlorooctadecane 237 % 28-171

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SHELDON HITCHCOCK
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Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-3 1' (H502896-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.087	0.050	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	0.126	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	16.9	10.0	11/04/2015	ND	214	107	200	2.98	


Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Analytical Results For:

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

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-3 2' (H502896-11)

BTX 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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

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	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	10.4	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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SHELDON HITCHCOCK
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Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-3 3' (H502896-12)

BTX 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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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TALON LPE
SHELDON HITCHCOCK
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-4 0' (H502896-13)

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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	33.1	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 83.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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SHELDON HITCHCOCK
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Fax To: (575) 745-8905

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-5 0' (H502896-14)

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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEx	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	229	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 61.4 % 35-147

Surrogate: 1-Chlorooctadecane 68.0 % 28-171

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Analytical Results For:

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

Received: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-6 0' (H502896-15)

BTX 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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	204	102	200	0.722	
DRO >C10-C28	245	10.0	11/04/2015	ND	214	107	200	2.98	

Surrogate: 1-Chlorooctane 89.2 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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: 11/03/2015
Reported: 11/04/2015
Project Name: SRO STATE COM #43
Project Number: 701866.004.01
Project Location: NONE GIVEN

Sampling Date: 11/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S-7 0' (H502896-16)

BTX 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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	11/04/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2015	ND	182	91.2	200	6.72	
DRO >C10-C28	320	10.0	11/04/2015	ND	169	84.4	200	13.6	

Surrogate: 1-Chlorooctane 59.3 % 35-147

Surrogate: 1-Chlorooctadecane 51.9 % 28-171

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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.
- 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: S. Hinchcock

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701866.004.01 Project Owner: Gibson

Project Name: SR0 St. Cam #43

Project Location:

Sample Name: S. Hinchcock

FOR LAB USE ONLY

Lab I.D. Sample I.D.

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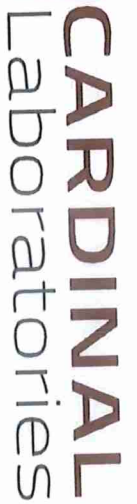
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3-315'



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.[illegible]

1

Person or office		
Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:		

Received By: Murim

Rush

Sample Condition	CHECKED BY:
Cool	(Initials)

1

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