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By JKeyes at 3:36 pm, Dec 08, 2015

APPROVED

By JKeyes at 3:36 pm, Dec 08, 2015



CMU North Injection

REMEDIATION WORK PLAN

API No. 30-025-32941

Release Date: October 7, 2015

Unit Letter H, Section 20, Township 17 South, Range 33 East

December 8, 2015

Prepared by:

Lance Crenshaw, Project Manager
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Kellie Jones
Environmental Specialist
NM Oil Conservation District-Division 2
1625 N. French
Hobbs, NM 88240

RE: Linn Energy, CMU North Injection– Remediation Work Plan
UL/H, Section 20, T17S, R33E
API No. 30-025-32941

Ms. Jones,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Maljamar, NM, in Lea County. The leak site resulted from a hole in the side of a fiberglass nipple. The impacted area is entirely in the pasture area. Approximately 168 bbls of produced water was released, with none recovered. A site map is attached. This spill occurred on top of the Caprock Escarpment. A C-141 was submitted to the NMOCD on October 12, 2015.

Site Assessment and Delineation

On October 7, 2015 DFSI personnel responded to the release site and dug up the line so a crew could fix it. DFSI then scraped up the affected area to minimize the environmental impact. A soil berm was installed on the northern edge of the spill to prevent any extra runoff from seeping into a pond in that area.

On October 16, 2015 DFSI personnel returned to the site and sampled the spill area. DFSI sampled 25 points of the spill area, and a water sample was taken from the pond. The samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Due to the Caprock Escarpment, DFSI personnel encountered auger refusal at 1' BGS on every sample point except SP #10, where auger refusal was encountered at 2' BGS. The field sampling results are attached.

On November 6, 2015, DFSI personnel returned to drill five bore holes to obtain confirmation samples. Samples that field tested clean were sent to a commercial laboratory for confirmation. Those results are attached as well.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 190 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI, on behalf of Linn Energy, would like to propose the following:

Excavate the entire spill to 4' BGS, except in the area(s) of the playa, which include SP6-SP10, and SP17-SP18. These areas will be excavated to 1' BGS and backfilled with native topsoil. In the 4' excavation, a 20 mil liner will be installed, then backfilled with native topsoil. The area will be seeded with a BLM approved mix. All contaminated materials will be hauled to an approved NM State Disposal.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

Attachments: Initial Form C-141
Site/Sample Map
Photos
Sample Data
Groundwater Data

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

Form C-141
Revised August 8, 2011

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

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 Linn Operating Inc.	Contact E.L. Gonzales
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 575-738-1739
Facility Name CMU North Injection – (closest active well CMU #196)	Facility Type Water Station

Surface Owner State	Mineral Owner	API No. Closest well 30-025-32941
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LOCATION OF RELEASE

Unit Letter H	Section 20	Township 17S	Range 33E	Feet from the 2473	North/South Line North	Feet from the 1259	East/West Line East	County Lea
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Latitude 32.820549 Longitude -103.6808777

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 168 bbls	Volume Recovered 0
Source of Release FG- Pipeline	Date and Hour of Occurrence 10/07/2015	Date and Hour of Discovery 10/07/2015 6:30am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input 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.* At approx. 6:30am leak was found, closet well was the CMU A #57. When I arrived water was spraying out of the ground towards the west. We got leak stopped and dug out and noticed a hole in the side of a fiberglass nipple.

Describe Area Affected and Cleanup Action Taken.* Leak was approx. 200' wide at the widest point, and approx. 500' long at the longest point. Leak sprayed out of ground towards west and ran downhill north, northeast. Approx. 168bbls spilled.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: E.L. Gonzales	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: elgonzales@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/12/2015 Phone: 505-504-8002		

* Attach Additional Sheets If Necessary



CMU North Injection

PHOTO PAGE



Spill area in pasture



Spill area in pasture



Spill area with pond in background



Spill area with sample points

South Elevation

⊗ 359°N (T) ● 32°49'20"N, 103°40'45"W ±16.4ft ▲ 4162ft



08 Oct 2015, 09:01

Soil berm installation on north side of spill, with pond in background

South Elevation

☼ 12°N (T) ● 32°49'19"N, 103°40'43"W ±98.4ft ▲ 4184ft



07 Oct 2015, 14:43

Initial scrape of the spill area

West Elevation

☼ 87°E (T) ● 32°52'6"N, 103°36'50"W ±42653.0ft ▲ 4169ft



07 Oct 2015, 16:36

Digging out source of spill so crews could fix line



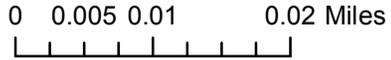
Drilling for confirmation samples



Obtaining confirmation samples from drilling bore holes

Site Diagram

**Linn, CMU 57
Lea County, NM
Drafted By: Lance Crenshaw, 10-7-15**



Legend

Misc_points

Types

- Electrical Box
- Power Pole
- Headers
- Injection
- Pumpjacks
- Tanks
- Valves
- Other
- Soil Bores
- sample_pts
- Source

Pipeline

Type

- Above Ground Line
- Buried Line

Spill

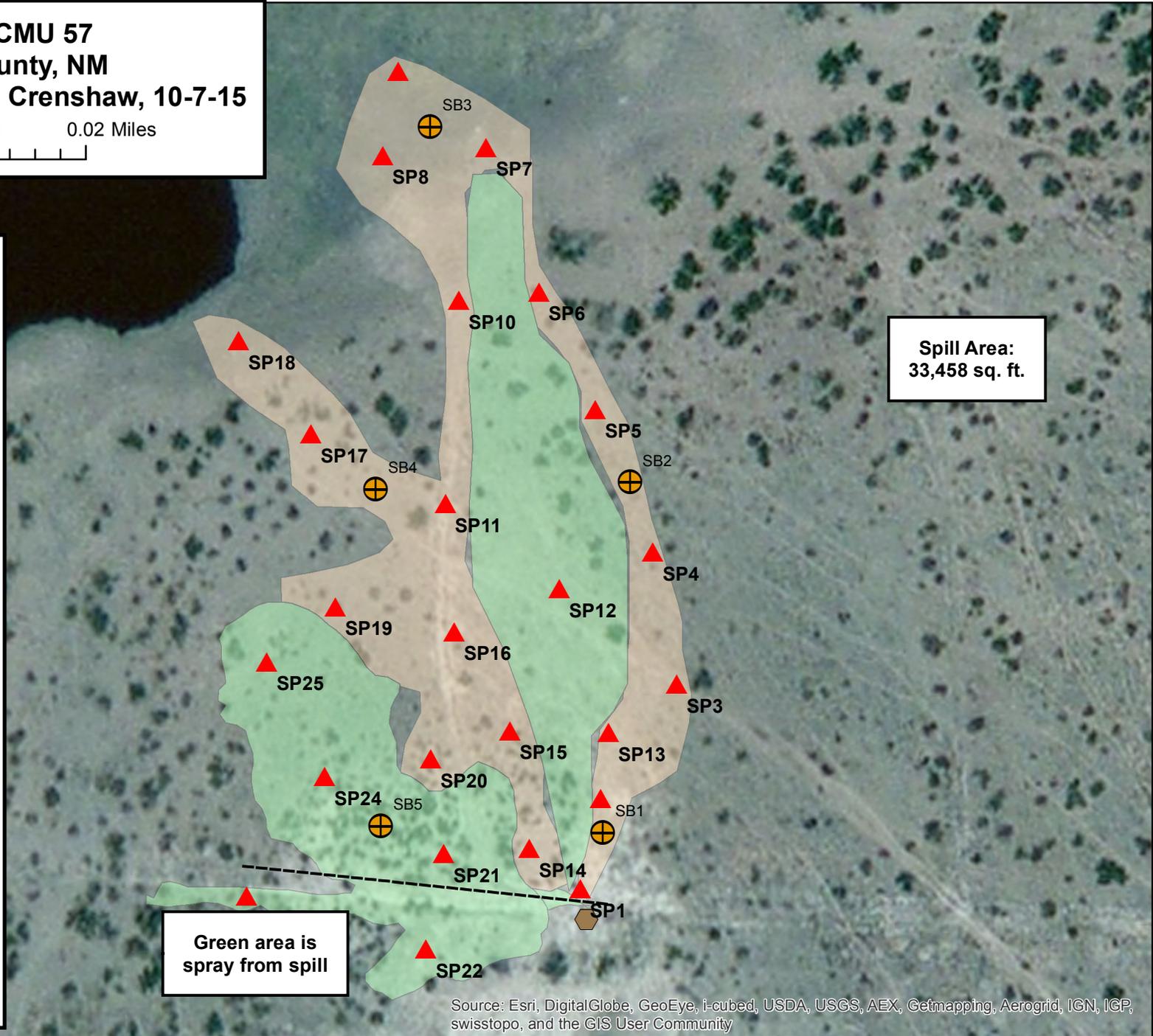
- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water

**Spill Area:
33,458 sq. ft.**

**Green area is
spray from spill**



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Diversified Environmental Services

Company Name: Linn
 Location Name: CMU N. Injection Trunk Line

SP Date: 11/6/2015
 Rel Date: _____

SB1	CHL	PID	SB2	CHL	PID	SB3	CHL	PID	SB4	CHL	PID	SB5	CHL	PID
2'	4,050	1.2	2'	5,154	0.6	2'	1,036	1.9	2'	146	0.8			
3'	3,408	0.7	3'	858	0.6	3'	1,811	1.7	3'	261	1.1	3'	4,272	0.5
4'	5,585	0.7	4'	645	0.3	4'	1,717	1.9	4'	210	0.9	4'	2,347	0.7
5'	3,669	1.3	5'	467	0.5	5'	1,378	1.6				5'	1,852	0.8
6'	3,140	1.5				6'	878	1.4				6'	1,442	1.1
7'	2,212	2.5	4'	624		7'	1,061	1.2	3'	160		7'	1,706	0.6
8'	2,126	2.8	5'	384		8'	927	1.1	4'	144		8'	1,875	0.7
9'	1,350	2.5				9'	747	0.9				9'	2,023	0.6
10'	1,253	1.8				10'	613	0.4				10'	2,207	0.3
11'	1,121	1.4										11'	2,380	0.7
12'	1,013	1.2										12'	2,358	0.6
13'	1,211	1.5				9'	736					13'	2,454	1.2
14'	940	0.4				10'	608					14'	2,534	0.6
15'	637	0.2										15'	2,628	0.5
16'	526	0.7										16'	2,734	0.8
												17'	2,751	0.9
15'	656											20'	2,834	0.7
16'	512											25'	2,621	1.1
												30'	1,999	1
												35'	1,324	0.8
												40'	229	1.2
												45'	227	0.9

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



November 11, 2015

JOE HERNANDEZ
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: CMU NORTH INJECTION TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/06/15 8:15.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	10/29/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 1 @ 15' (H502944-01)

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	11/09/2015	ND	1.98	98.8	2.00	2.96	
Toluene*	<0.050	0.050	11/09/2015	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	11/09/2015	ND	2.02	101	2.00	4.18	
Total Xylenes*	<0.150	0.150	11/09/2015	ND	6.46	108	6.00	4.05	
Total BTEX	<0.300	0.300	11/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	656	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 88.9 % 35-147
Surrogate: 1-Chlorooctadecane 96.4 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	10/29/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 1 @ 16 (H502944-02)

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	11/09/2015	ND	1.98	98.8	2.00	2.96	
Toluene*	<0.050	0.050	11/09/2015	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	11/09/2015	ND	2.02	101	2.00	4.18	
Total Xylenes*	<0.150	0.150	11/09/2015	ND	6.46	108	6.00	4.05	
Total BTEX	<0.300	0.300	11/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	512	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 2 @ 4' (H502944-03)

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	11/09/2015	ND	1.98	98.8	2.00	2.96	
Toluene*	<0.050	0.050	11/09/2015	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	11/09/2015	ND	2.02	101	2.00	4.18	
Total Xylenes*	<0.150	0.150	11/09/2015	ND	6.46	108	6.00	4.05	
Total BTEX	<0.300	0.300	11/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	624	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 89.8 % 35-147

Surrogate: 1-Chlorooctadecane 97.2 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 2 @ 5' (H502944-04)

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	11/10/2015	ND	1.92	96.2	2.00	0.572		
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10		
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00		
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10		
Total BTEX	<0.300	0.300	11/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	384	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756		
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480		

Surrogate: 1-Chlorooctane 92.7 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 3 @ 9' (H502944-05)

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	11/10/2015	ND	1.92	96.2	2.00	0.572	
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10	
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10	
Total BTEX	<0.300	0.300	11/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 86.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.1 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 3 @ 10' (H502944-06)

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	11/10/2015	ND	1.92	96.2	2.00	0.572	
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10	
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10	
Total BTEX	<0.300	0.300	11/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	608	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 90.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 4 @ 3' (H502944-07)

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	11/10/2015	ND	1.92	96.2	2.00	0.572	
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10	
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10	
Total BTEX	<0.300	0.300	11/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	160	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/02/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 4 @ 4' (H502944-08)

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	11/10/2015	ND	1.92	96.2	2.00	0.572	
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10	
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10	
Total BTEX	<0.300	0.300	11/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	144	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 89.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/04/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 5 @ 40' (H502944-09)

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	11/10/2015	ND	1.92	96.2	2.00	0.572		
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10		
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00		
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10		
Total BTEX	<0.300	0.300	11/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756		
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480		

Surrogate: 1-Chlorooctane 95.3 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	11/06/2015	Sampling Date:	11/04/2015
Reported:	11/11/2015	Sampling Type:	Soil
Project Name:	CMU NORTH INJECTION TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LINN		

Sample ID: SOIL BORE 5 @ 45 (H502944-10)

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	11/10/2015	ND	1.92	96.2	2.00	0.572	
Toluene*	<0.050	0.050	11/10/2015	ND	2.13	107	2.00	1.10	
Ethylbenzene*	<0.050	0.050	11/10/2015	ND	1.94	96.9	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/10/2015	ND	6.16	103	6.00	1.10	
Total BTEX	<0.300	0.300	11/10/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/09/2015	ND	400	100	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	11/09/2015	ND	211	106	200	0.0756	
DRO >C10-C28	<10.0	10.0	11/09/2015	ND	217	108	200	0.480	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.6 % 28-171

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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



Celey D. Keene, Lab Director/Quality Manager

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

BILL TO

ANALYSIS REQUEST

Company Name: Linn Operating P.O. #: _____
 Project Manager: Joe Hernandez Company: Linn
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____ City: _____
 Project Name: Linn State: _____ Zip: _____
 Project Location: GMU North Injection Tankline Phone #: _____
 Sampler Name: Chris Flores Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	Chloride	TetH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
HS02944-																
01	Soil Bore 1	G1S1	G1													
02	Soil Bore 1	G1L6	G1													
03	Soil Bore 2	G1L4	G1													
04	Soil Bore 2	G1S1	G1													
05	Soil Bore 3	G1L9	G1													
06	Soil Bore 3	G1L0	G1													
07	Soil Bore 4	G1L3	G1													
08	Soil Bore 4	G1L4	G1													
09	Soil Bore 5	G1L0	G1													
10	Soil Bore 5	G1L4	G1													

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Relinquished By: _____ Date: 11-6-2015 Time: _____
 Received By: Chris Flores
 Requiring By: _____ Date: 8-15 Time: _____
 Received By: _____

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact
 Yes No Yes No
 CHECKED BY: col

REMARKS: _____
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 Email to: lrenshaw@diversifiedsi.com
mbarbora
mpatterson
<410-25

October 16, 2015

JOE HERNANDEZ

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: PLAYA LAKE NORTH OF CMU 57

Enclosed are the results of analyses for samples received by the laboratory on 10/07/15 13:40.

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:

 LINN OPERATING-HOBBS
 JOE HERNANDEZ
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	10/07/2015	Sampling Date:	10/07/2015
Reported:	10/16/2015	Sampling Type:	Water
Project Name:	PLAYA LAKE NORTH OF CMU 57	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PLAYA SAMPLE (H502656-01)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/15/2015	ND	0.019	93.7	0.0200	0.128	
Toluene*	<0.001	0.001	10/15/2015	ND	0.019	94.2	0.0200	0.949	
Ethylbenzene*	<0.001	0.001	10/15/2015	ND	0.019	94.6	0.0200	0.164	
Total Xylenes*	<0.003	0.003	10/15/2015	ND	0.058	96.8	0.0600	0.0293	
Total BTEX	<0.006	0.006	10/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 66.2-142

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	176	4.00	10/08/2015	ND	104	104	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	10/14/2015	ND	53.0	106	50.0	0.771	
DRO >C10-C28	1.10	1.00	10/14/2015	ND	54.3	109	50.0	0.450	
EXT DRO >C28-C35	<1.00	1.00	10/14/2015	ND	0.846		0.00		

Surrogate: 1-Chlorooctane 84.3 % 36.1-161

Surrogate: 1-Chlorooctadecane 103 % 36-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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	Depth Well	Depth Water	Water Column
L 02875	L	LE		2	2	20		17S	33E	623662	3632717*	250	190	60

Average Depth to Water: **190 feet**
 Minimum Depth: **190 feet**
 Maximum Depth: **190 feet**

Record Count: 1

PLSS Search:

Section(s): 20 **Township:** 17S **Range:** 33E

*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.