



# State B #005

## REMEDIATION WORK PLAN

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Release Date: September 28, 2014

Unit Letter O, Section 16, Township 17 South, Range 31 East

API #: 30-015-32874

**April 27, 2016**

**Prepared by:**

Michael Burton

Environmental Department  
Diversified Field Service, Inc.

206 W. Snyder

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

Mike Bratcher  
Environmental Specialist  
NM Oil Conservation District – Division 2  
811 S. First St.  
Artesia, NM 88210

RE: **Linn Energy – State B #005 – Remediation Work Plan**  
UL/O, Section 16, T17S, R31E  
API #: 30-015-32874

Mr. Bratcher,

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

The site is located southwest of Maljamar, NM, in Eddy County. The non-reportable spill resulted from a ruptured flowline, releasing a total of 2 barrels of produced water and 2 barrels of oil, with none recovered. The impacted area is located on the pad.

#### **Site Assessment and Delineation**

On October 10, 2014, DFSI personnel were on site to obtain samples within the leak area (Figure 1). Six samples were obtained and field sampled for chloride levels, as well as BTEX (Appendix II). The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix III), resulting in decreasing chloride concentrations to below NMOCD or BLM regulatory limits at all sample points, with the exception of SP1.

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there is no groundwater beneath this site. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

**Conclusion**

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

Excavate the area around SP1 to 4' bgs. The remaining release area will be scraped 6". The entire excavation will be backfilled with clean, imported caliche to ground surface. Contaminated soil will be properly disposed of at a NMOCD approved facility. Seeding of the site is not warranted.

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

cc Shelly Tucker

Figure 1 – Site Map  
Appendix I – Site Photos  
Appendix II – Laboratory Analysis  
Appendix III – Groundwater Study

# Site Diagram

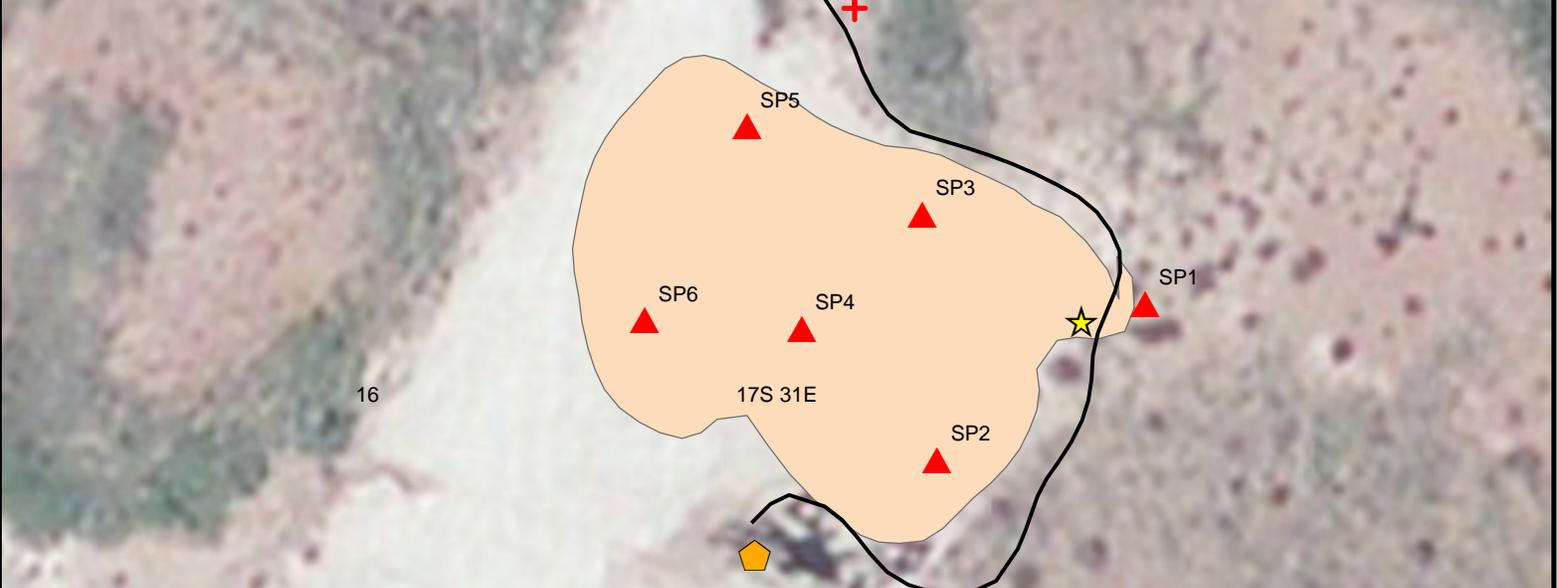
SP1									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	6,997	3,767							
1'	124	31.7							
2'	224	9							
3'	1,124	5.7							
4'	974	15.5							
5'	749	3.3	1280	<10	11.7	<0.05	<0.05	<0.05	<0.15

SP2									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	1,749	16.5							
1'	74	6.9							
2'	124	3	32	<10	<10	<0.05	<0.05	<0.05	<0.15

SP3									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	13,745	342							
1'	74	3.3							
2'	74	3.1	96	<10	<10	<0.05	<0.05	<0.05	<0.15

SP4									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	4,248	45.3							
1'	374	26							
2'	199	11.4	176	<10	<10	<0.05	<0.05	<0.05	<0.15



SP5									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	899	14.5							
1'	99	35.1	<16	<10	<10	<0.05	<0.05	<0.05	<0.15

SP6									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	524	8.6							
1'	49	0.2	<16	<10	<10	<0.05	<0.05	<0.05	<0.15

## Legend

- Source
- Sample Points
- Power Pole
- Pumpjacks
- Above Ground Line
- Oil and Produced Water (6,624 sq ft)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Linn**  
**State B #005**  
**Unit Letter O, Section 16, T17S, R31E**  
**Eddy County, NM**  
**API #: 30-015-32874**

Mapped: 10/09/2014 LC  
 Drafted by: L. Flores  
 04/26/2016

0 510 20 30 40  
 Feet

# Appendix I

## SITE PHOTOS

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# State B #005

## PHOTO PAGE

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# Appendix II

## LABORATORY ANALYSIS

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Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

October 16, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: STATE B #5

Enclosed are the results of analyses for samples received by the laboratory on 10/10/14 14:45.

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

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H403127-01)**

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1280</b>	16.0	10/14/2014	ND	400	100	400	3.92	

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	10/14/2014	ND	169	84.6	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>11.7</b>	10.0	10/14/2014	ND	178	89.2	200	3.46	

*Surrogate: 1-Chlorooctane 81.2 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 90.3 % 52.1-176*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 2' (H403127-02)**

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	10/14/2014	ND	400	100	400	3.92	

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	10/14/2014	ND	169	84.6	200	3.28	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	178	89.2	200	3.46	

Surrogate: 1-Chlorooctane 76.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.4 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 2' (H403127-03)**

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	10/15/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/15/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	10/14/2014	ND	400	100	400	3.92	

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	10/14/2014	ND	169	84.6	200	3.28	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	178	89.2	200	3.46	

Surrogate: 1-Chlorooctane 79.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.2 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 2' (H403127-04)**

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	10/15/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/15/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/15/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 61-154*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	10/14/2014	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	10/14/2014	ND	169	84.6	200	3.28	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	178	89.2	200	3.46	

*Surrogate: 1-Chlorooctane 80.5 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 87.9 % 52.1-176*

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 1' (H403127-05)**

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	10/15/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/15/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500CI-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	10/14/2014	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	10/14/2014	ND	169	84.6	200	3.28	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	178	89.2	200	3.46	

Surrogate: 1-Chlorooctane 76.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/16/2014	Sampling Type:	Soil
Project Name:	STATE B #5	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SP 6 @ 1' (H403127-06)**

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	10/15/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/15/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	10/14/2014	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	10/14/2014	ND	169	84.6	200	3.28	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	178	89.2	200	3.46	

Surrogate: 1-Chlorooctane 80.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.9 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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



---

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: LINN ENERGY  
 Project Manager: BRIAN WALL

Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 City: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_

Project Name: \_\_\_\_\_  
 Project Location: **State B #15**

Sampler Name: **EDWARD CESAREO**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
#403127	SP-1		1							10-10-14	2:00	CHLORIDES
	SP-2		1								2:05	TPH
	SP-3		1								2:10	BTEX
	SP-4		1								2:15	
	SP-5		1								2:20	
	SP-6		1								2:25	

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising out of or from this contract is 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 from this contract or the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated provisions or otherwise.

Relinquished By: \_\_\_\_\_ Date: 10-14-14  
 Time: 2:45P  
 Received By: **E. Cesareo**  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: **116C**

Sample Condition  
 Cool  Intact   
 Yes  No  
 Yes  No

CHECKED BY: **cdk**

Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:  
 REMARKS:  
 E-mail Results To:  
 Ngladen@diversifiedfsi.com  
 Rpons@diversifiedfsi.com  
 cesareo@diversifiedfsi.com  
**Samples just taken.**

# Appendix III

## GROUNDWATER STUDY

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Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394



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# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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No records found.

**PLSS Search:**

**Section(s):** 8, 9, 10, 15, 16, **Township:** 17S **Range:** 31E  
17, 20, 21, 22