BURGUNDY OIL & GAS OF NEW MEXICO, INC.

Ben Taylor

State Vacuum Unit #15

CLOSURE REPORT

API No. 30-025-02173

Release Date: 08/28/2014

Unit I, Section 32, Township 17 South, Range 34 East

2RP - 3300

October 31, 2014

Prepared by:

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

State Vacuum Unit #15

1 INTRODUCTION

Burgundy Oil and Gas of New Mexico (Burgundy) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Maljamar NM, Unit letter 'I', S32, T17S, R34E, in Lea County. It was initially believed that the impacted area at this site resulted from a water injection line leak of an estimated of 3 bbls of produced water. The leak was detected on August 28, 2014. This release impacted an initial area of 3823 sq. ft. of combined pad and pasture area (Figure A). DFSI reassessed the site due to horizontal delineation, whereby the area of impact was found to be approximately 7,451 square feet of combined pad and pasture area (Figure B). Burgundy submitted a form C-141 to the NMOCD on September 2, 2014 2RP-3300 (Appendix 1).

DFSI conducted a groundwater analysis of the area. Both the U.S. Geological Survey and the NM Office of the State Engineer estimated that the depth to ground water to be 145' below ground surface (bgs), each concluded there was no eminent threat of groundwater impact. It is the intention of Burgundy Oil and Gas to preserve natural habitat by restoring the area, preventing any impact to groundwater, and preserving life forms.

2 SITE ACTIVITIES

On September 03, 2014, DFSI personnel visited the site to make an initial assessment and horizontally delineate the site. Soil samples were field tested utilizing Photoionization (PID) and chloride titration. Soil samples were retrieved from seven sample points at 1' intervals. All sample points returned levels of chlorides above regulatory acceptable limits.

On September 09, 2014, DFSI personnel revisited the site in order to complete simultaneous vertical field delineation (Appendix IV). At SP1 backhoe refusal was encountered at 16'bgs., however at depth of 15'bgs the field sample indicated the CL^- constituent level was 2224 mg/kg, and the TPH level was <.6 mg/kg.

On September 11, 2014, DFSI personnel returned to the site in order to complete a vertical delineation. Field samples were collect at 1'bgs intervals and field tested for Chlorides and Hydrocarbons until acceptable levels could be ascertained. Representative soil samples were collected and sent to a commercial laboratory for analyses. The following is a recap of the returned analyses:

SP2: 8’ - 1300 mg/kg Cl and <10 mg/kg TPH
SP3: 5’ - 704 mg/kg Cl and <10 mg/kg TPH
SP4: 7’ - 944 mg/kg Cl and <10 mg/kg TPH
SP5: 7’- 992 mg/kg Cl and <10 mg/kg TPH
SP6: 7’- 816 mg/kg Cl and <10 mg/kg TPH
SP7: 9’- 704 mg/kg Cl and <10 mg/kg TPH

On September 22, 2014 DFSI Environmental Director submitted a formal written request to the NMOCD to (i) remediate the 3,823 sq. ft. area of impact to 4’bgs, (ii) install a 20 mil liner, (iii) backfill with fresh imported soil and (iv) contour and seed the area. On same said date the Remediation Plan was submitted and was approved by the NMOCD. Remediation began on September 25, 2014.

On September 26, 2014 DFSI personnel revisited the site of the excavation in order to determine vertical extent of impact. Simultaneous sidewall sampling was conducted again on October 7 and October 08, 2014, whereby representative samples were retrieved and sent to a commercial laboratory for confirmation. The following is a recap of the returned analyses:

SW1: 2’ out – 16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW2: 2’ out – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW3: 8’ out – 16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW4: 2’ out – 848 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW5: 4’ out - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW6: 4’ out – 800 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW7: 10’ out - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW8: 2’ out – 176 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW9: 4’ out – 32 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW10: 28’ out – 464 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW11: 34’ out – 400 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW12: 12’ out – 1200 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW13: 4’ out – 624 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW14: 8’ out – 848 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW15: 2’ out – 2400 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW16: 4’ out – 448 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW17: 16’ out – 816 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015

On October 10, 2014, DFSI personnel conducted further vertical delineation at SW#12 and SW#15, whereby representative soil samples were retrieved and sent to a commercial laboratory for analyses. The following is a recap of the returned analyses:

SW12: 14’ out - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015
SW15: 4’ out - <16 mg/kg Cl, <0.300 mg/kg BTEX and <10 mg/kg TPH 8015

It was determined, based on the aforementioned laboratory analyses that the injection line leak was significantly higher than the 3 bbls that was initially estimated; and as a result of horizontal leaching of chlorides, the area of impact was significantly larger than originally assessed. The GIS mapping technician revisited the site remapping the area based on the field delineation analyses from October 10, 2014. The NMOCD was apprised of the new assessment with site mapping outlining sidewall sampling and area of impact which was now extended to a proposed area of excavation of 14,189 sq. ft. (Figure C). It was determined by NMOCD officials that the areas sampled on September 11, 2014 were the most prominent areas of impact (inside area as outlined in blue). As a result of the NMOCD evaluation of the data submitted by DFSI, the NMOCD ordered that the larger area of impact be excavated to 3'bgs, as opposed to the 4'bgs it had initially ordered to be excavated in the Work Plan. It further ordered that DFSI carryout the installation of a 20 mil liner, and to backfill with fresh topsoil. Furthermore, the outlying areas (area outside of the blue line) of impact would be excavated to a depth of 2'bgs. DFSI personnel were to utilize surrounding and imported topsoil "to knock in" and contour to the surface terrain.

On October 15, 2014 the excavation activities were completed. A 20 mil liner was installed in the 3'bgs excavated area. The lined area was backfilled with fresh imported topsoil. The outlying area as previously aforementioned, and agreed to by the regulatory authorities, was excavated to 2'bgs and backfilled. The backfilled area was contoured to the surrounding terrain. All visual staining and impacted soils were removed to an NMOCD approved facility.

Photographs of site activities can be viewed in Appendix II.

3 CONCLUSIONS & RECOMMENDATIONS

The areas impacted by the injection line leak of August 28th, 2014, were properly tested, treated and restored per the requirements of the NMOCD. BOGNM has complied fully with the rules and policies applied by the NMOCD and therefore requests that the NMOCD close the regulatory file for this surface impact event.

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2 Site Activities

3 Conclusion

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Site Diagram-C

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Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III – Groundwater Data

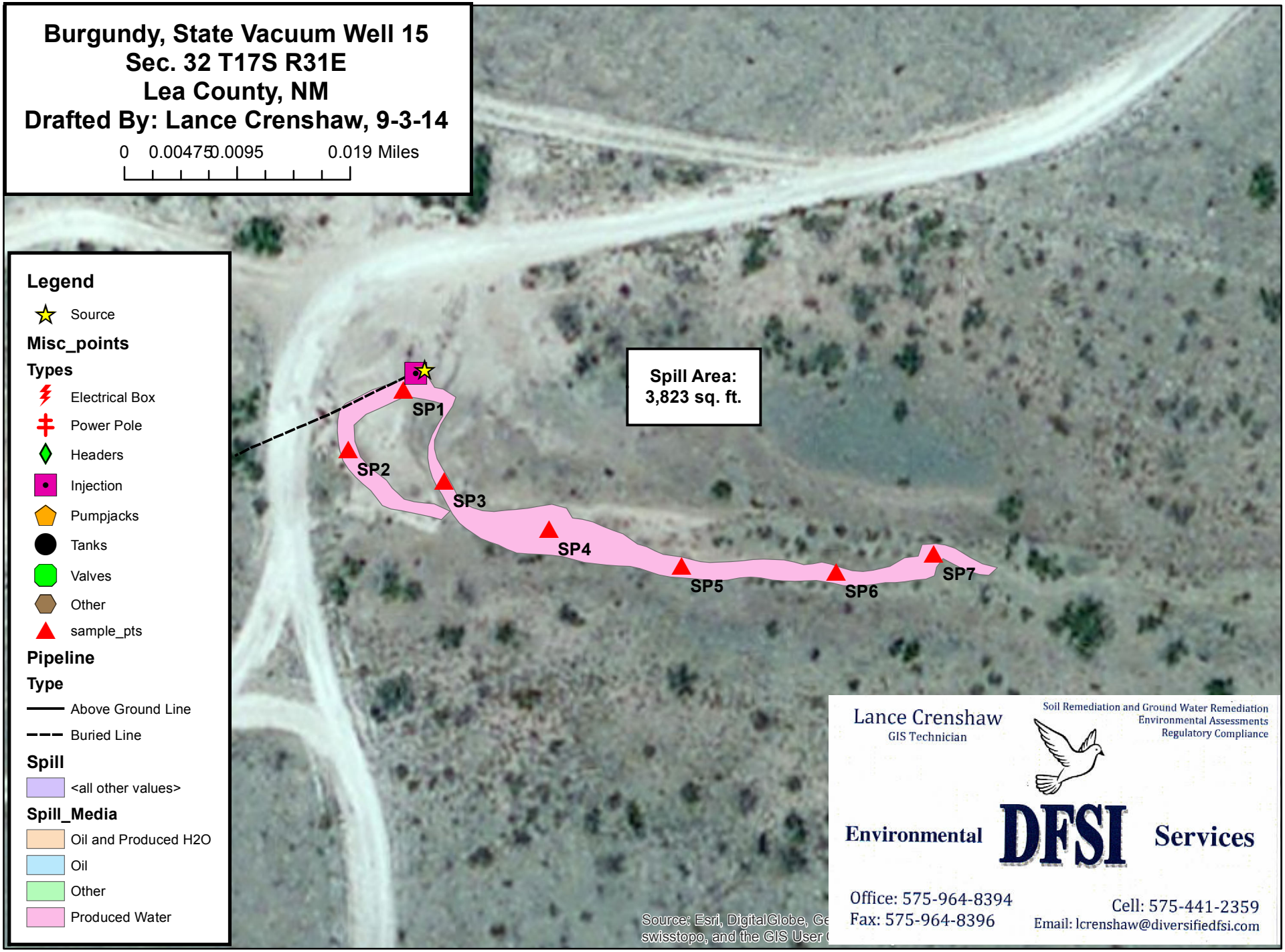
Appendix IV – Laboratory Analyses

Appendix V – Correspondence

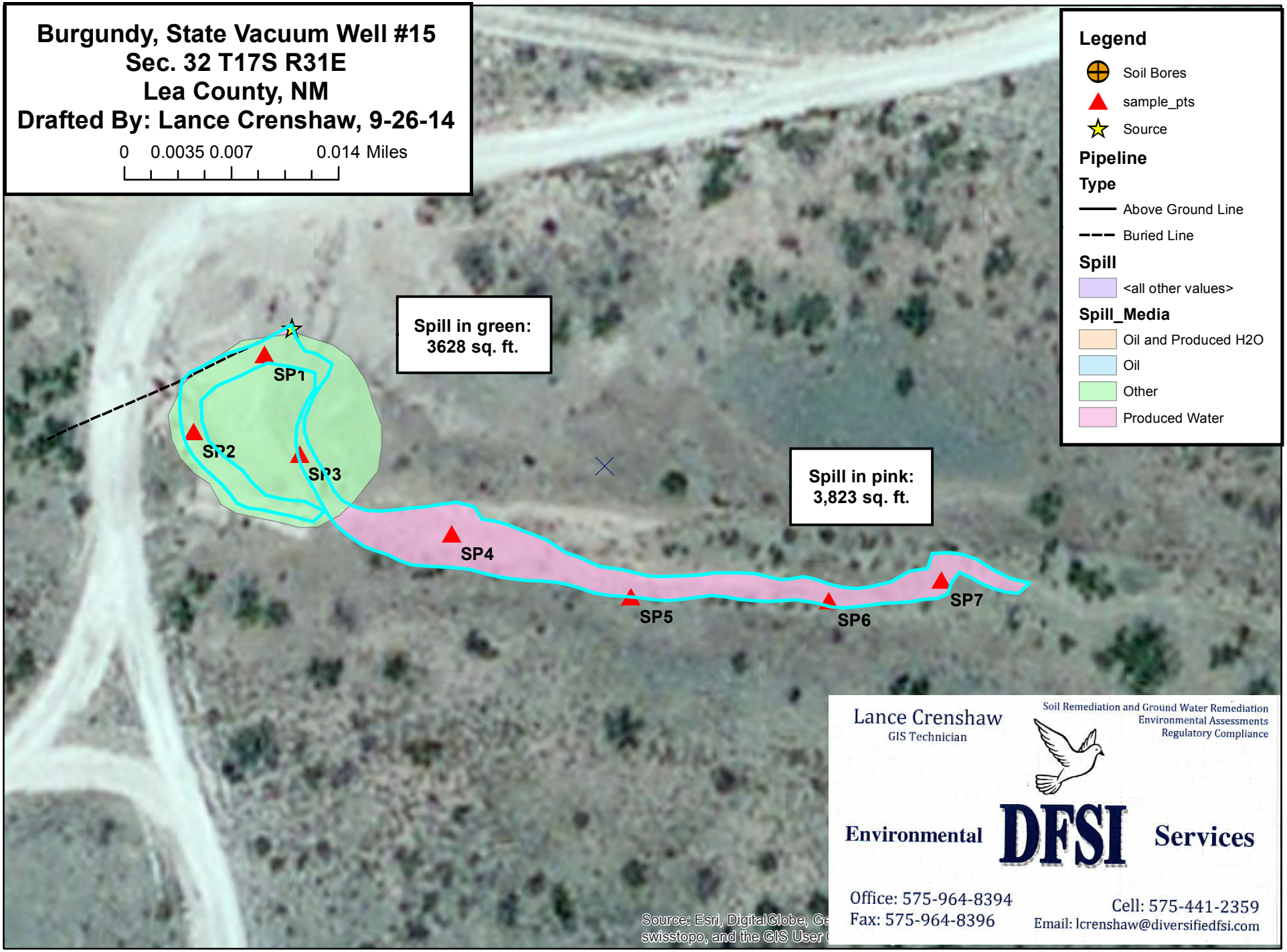
Appendix Vl – Final C-141

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

Site Diagram

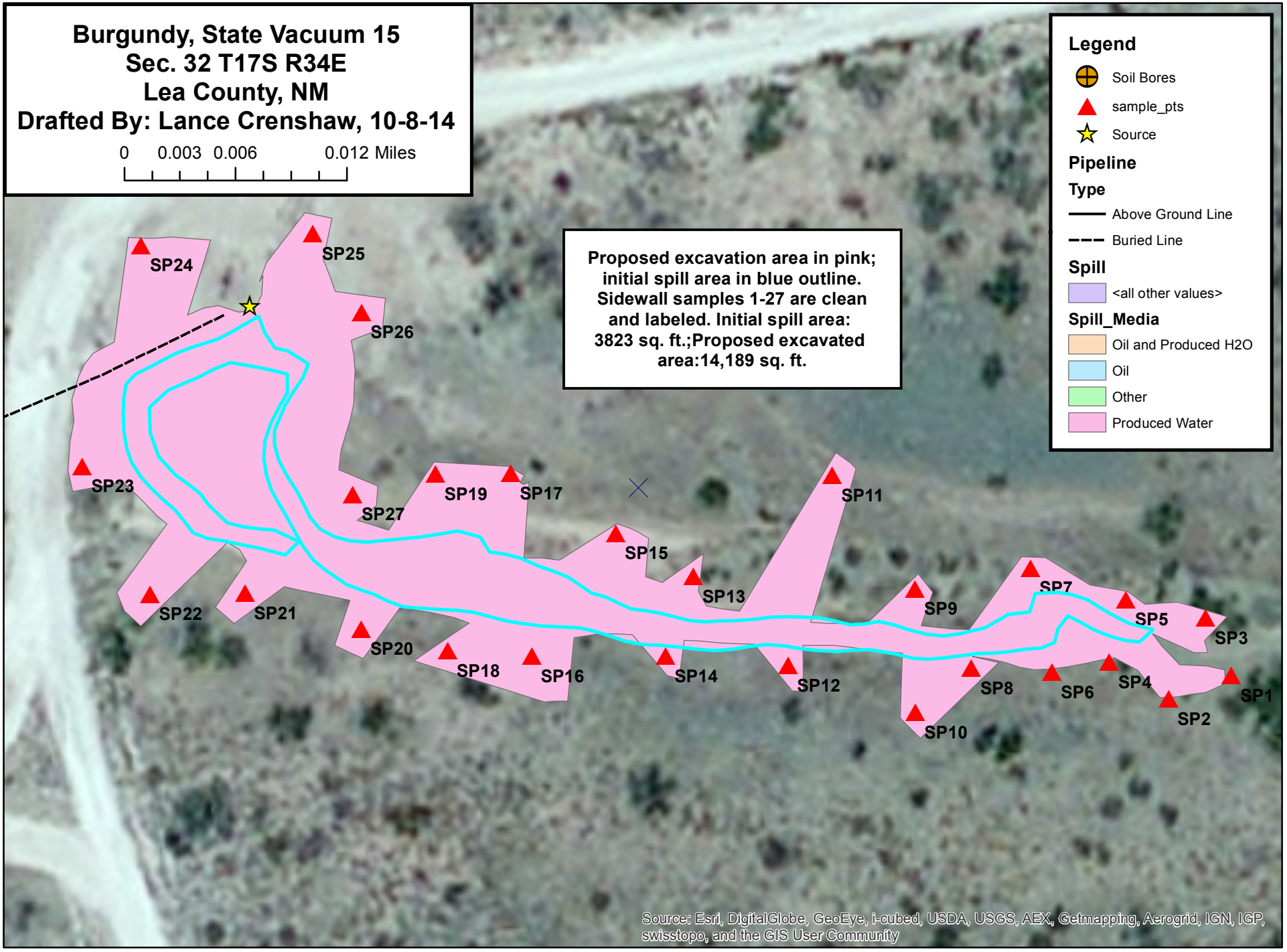


Site Diagram



Lance Crenshaw
GIS Technician
Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance
Environmental DFSI Services
Office: 575-964-8394
Fax: 575-964-8396
Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Site Diagram



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: Burgundy Oil and Gas of New Mexico	Contact: Ben Taylor
Address: 401 W Texas Suite 1003 Midland, TX 79701	Telephone No. 432-684-4033
Facility Name: State Vacuum Unit #15	Facility Type: WIW

Surface Owner State	Mineral Owner State	API No. 30-025-02173

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County
I	32	17S	34E	1980	South	680	East	Lea

Latitude: 32.7895034299485 Longitude -103.576372754491

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 3bbls	Volume Recovered 3bbls
Source of Release: Flowline	Date and Hour of Occurrence 08-28-14 14:00	Date and Hour of Discovery 08-28-14 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD M Whitaker	
By Whom? Ben Taylor	Date and Hour: 08/28/14 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.* A rupture occurred in an injection line next to the well. DFSI was retained to repair the line and remediate the site.

Describe Area Affected and Cleanup Action Taken. Leak traversed 387 ft south of the well and ran 4ft wide in pasture area. DFSI has been retained to fully remediate the site according to NMOCD guidelines.

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: *Ben Taylor*	OIL CONSERVATION DIVISION	
Printed Name: Ben Taylor	Approved by Environmental Specialist:	
Title: Field Foreman	Approval Date:	Expiration Date:
E-mail Address: btaylor.bogi@att.net	Conditions of Approval:	Attached ☐
Date: 09/02/2014 Phone: 432—557-2684		

* Attach Additional Sheets If Necessary

Burgundy, State Vacuum #15
Section 32, T17S R34E

Signage Well Location 09-03-14

Excavated area at wellhead 09-11-14

Excavation to pasture area 09-30-14

Excavation of injection line 10-14-14

Burgundy, State Vacuum #15
Section 32, T17S R34E

Eastern side of excavated pasture 10-03-14

Stockpile of impacted soil 10-06-14

East Excavation 10-14-14

Pasture excavation 10-14-14

Burgundy, State Vacuum #15
Section 32, T17S R34E

Line excavation 10-15-14

Lined excavation 10-15-14

Seeded pasture area 10-17-14

Pad at completion of firewall 10-17-14

GROUND WATER SEARCH

Burgundy Oil and Gas of New Mexico State Vacuum #15

UL: I **Sec:** 32 **T:** 17S **R:** 34E

Groundwater Depth: 145~ ft.

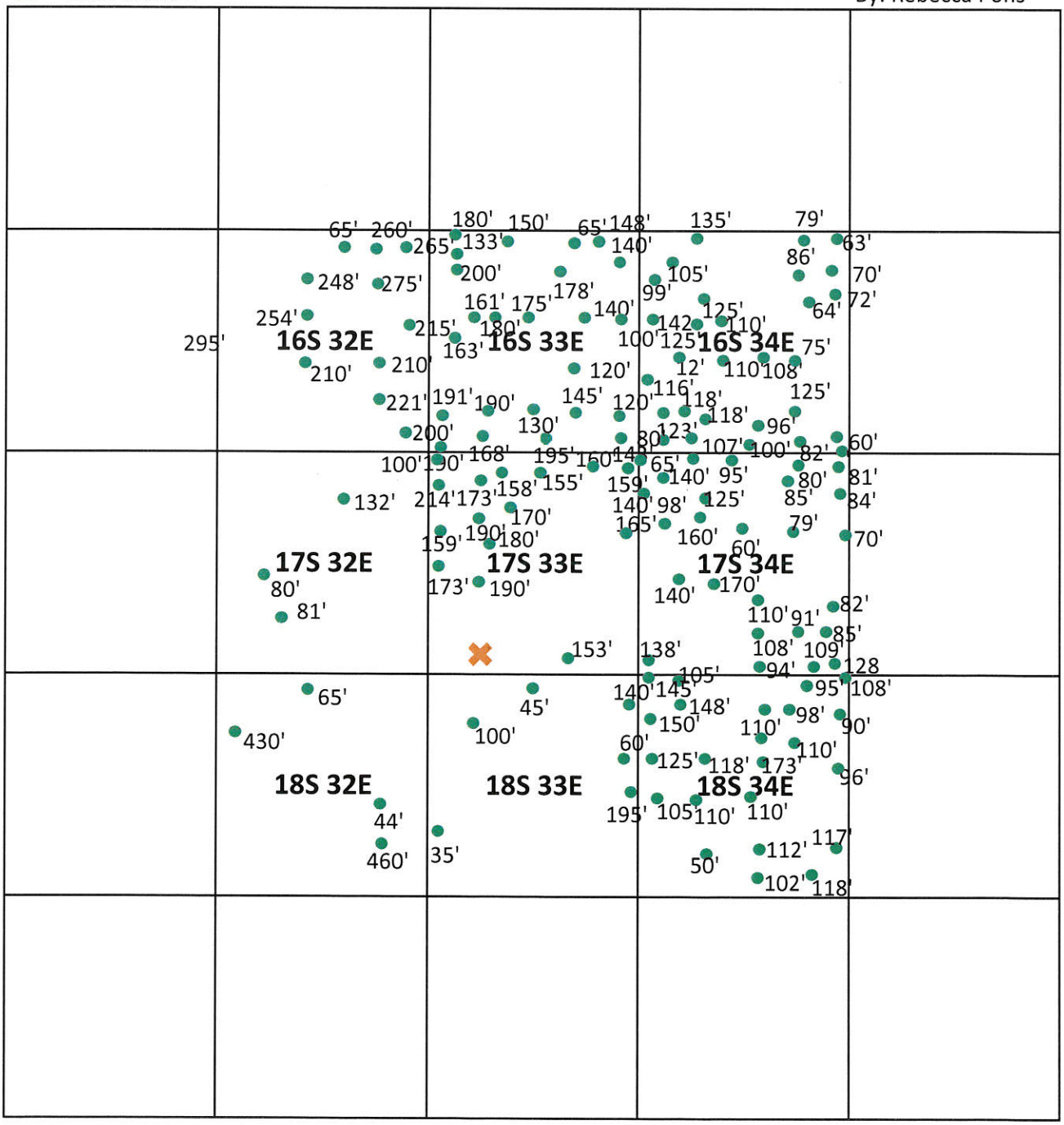
● = NM Office of the State Engineer

● = U.S. Geological Survey (unknown well)

✖ = Site Location

Date: 09/30/2014

By: Rebecca Pons



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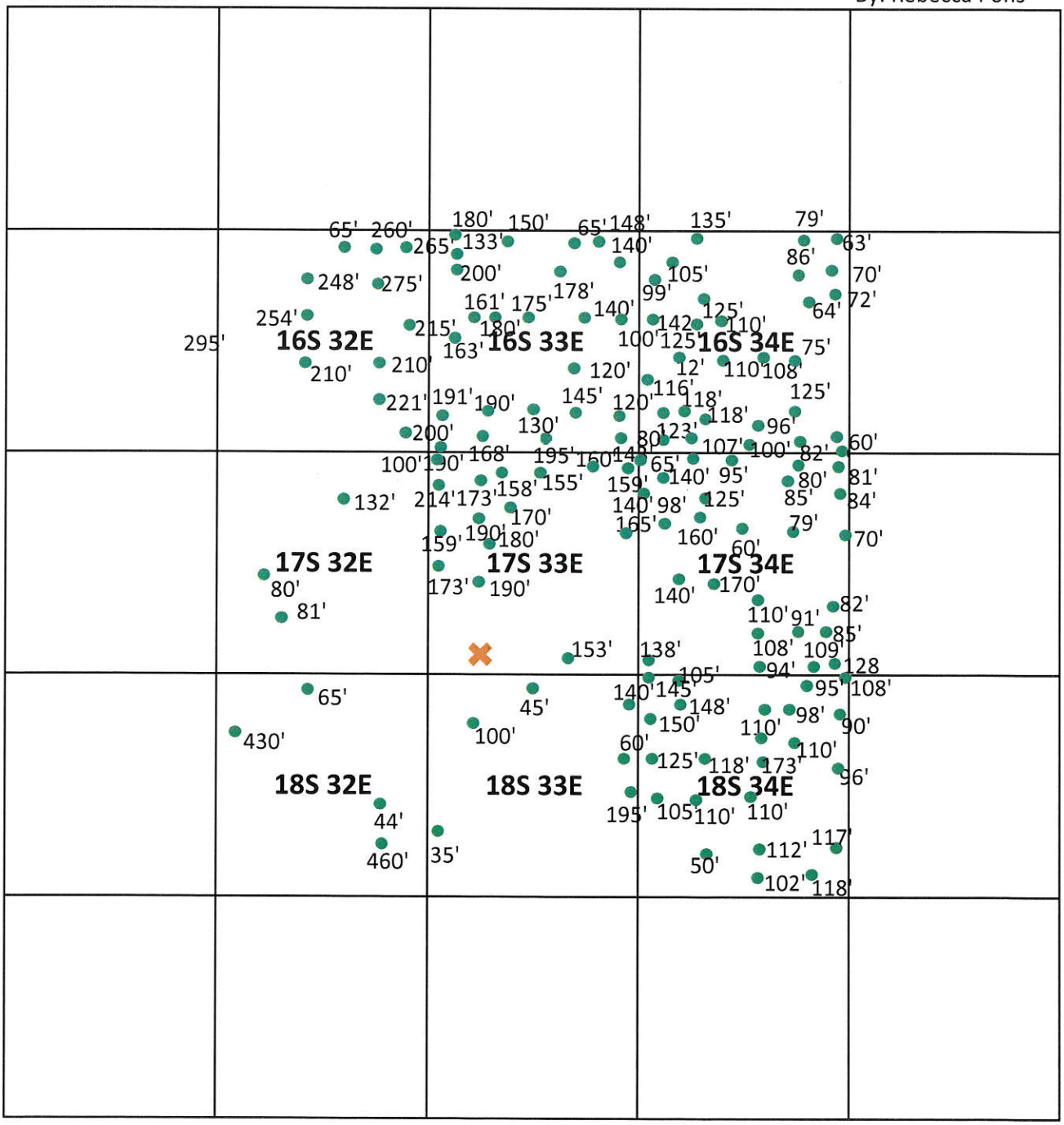

Diversified Environmental Services

Company Name: Burgundy SP Date: 9/26/2014 10/7/2014 10/8/2014 10/10/2014

Location Name: State Vacuum #15 Rel Date:

Sidewall Sampling Event

SE SW	CHL	TPH
Surface	3623	2.9
2'	2824	1.9
4'	1749	1.2
8'	2874	1.6
12'	1549	2.3
16'	399	1.2
20'	399	1.8
24'	499	0.4

SW1	CHL	TPH
Surface	49	8.1
2'	324	5.1
2'	16	<.300

SW2	CHL	TPH
Surface	99	4.4
2'	49	6.5
2'	32	<.300

SW3	CHL	TPH
Surface	3373	6.3
2'	2949	4.6
4'	4678	8.5
6'	1124	3.5
8'	74	4.1
8'	16	<.300

SW4	CHL	TPH
Surface	4498	6.3
2'	1624	4.6
4'	949	5.3
2'	848	<.300

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SW5	CHL	TPH
Surface	6622	5.5
2'	2749	3.1
4'	50	3.8
4'	<16.0	<10.0

SW6	CHL	TPH
Surface	5698	2.2
2'	2024	8.5
4'	649	5.3
4'	800	<10.0

SW7	CHL	TPH
Surface	3773	9.4
2'	3373	8.5
4'	2249	0.4
6'	2749	0.7
8'	3873	1.1
10'	74	0.9
10'	<16.0	<10.0

SW8	CHL	TPH
Surface	9272	3.5
2'	174	6.7
2'	176	<10.0

SW9	CHL	TPH
Surface	3748	8.2
2'	1624	4.6
4'	49	0.7
4'	32	<10.0

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SW10	CHL	TPH
Surface	3873	3.6
2'	2874	1.4
4'	2124	1
6'	3498	0.7
8'	1724	0.5
10'	1174	0.7
12'	1149	0.4
14'	1374	1
16'	1524	0.3
18'	1774	0.5
20'	1699	0.8
22'	1249	0.6
24'	1474	0.5
26'	1074	0.6
28'	449	1.2
28'	464	<10.0

SW11	CHL	TPH
Surface	3942	14.2
2'	2199	0.5
4'	1249	0.6
6'	1374	1.2
8'	1574	0.8
10'	1649	0.7
12'	1774	0.4
14'	1149	0.8
16'	3124	1.1
18'	3248	1.3
20'	2624	0.9
22'	2324	0.8
24'	2024	0.3
26'	1549	0.5
28'	1224	0.4
30'	1124	0.7
32'	1049	1.1
34'	374	0.8
34'	400	<10.0

SW12	CHL	TPH
Surface	4678	2.5
2'	2999	1.5
4'	3049	0.7
6'	2949	0.3
8'	2899	1.2
10'	1399	2.3
12'	924	4.8
12'	1200	<10.0
14'	<16.0	<10.0

SW13	CHL	TPH
Surface	374	3.6
Surface	624	<10.0

SW14	CHL	TPH
Surface	4648	0.6
2'	2549	0.3
4'	1949	0.1
6'	1124	1
8'	499	1.2
8'	848	<10.0

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SW15	CHL	TPH
Surface	999	0.8
2'	974	0.5
2'	2400	<10.0
4'	<16.0	<10.0

SW16	CHL	TPH
Surface	3723	2.4
2'	1124	1.8
4'	199	1.3
4'	448	<10.0

SW17	CHL	TPH
Surface	5123	0.6
2'	1399	1.2
4'	1049	0.8
6'	1699	0.7
8'	2249	1
10'	2499	0.5
12'	2799	0.3
14'	1274	0.2
16'	749	0.8
16'	816	<10.0

SP19	CHL	TPH

SP20	CHL	TPH

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 18, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: STATE VACUUM UNIT WELL #15

Enclosed are the results of analyses for samples received by the laboratory on 09/11/14 15:30.

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 accreditated 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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 8' (H402839-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1300**	16.0	09/12/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*99.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*104 %*	*63.6-154*

Sample ID: SP 3 @ 5' (H402839-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	09/12/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*98.9 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*106 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 7' (H402839-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	09/15/2014	ND	416	104	400	8.00	

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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*104 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*117 %*	*63.6-154*

Sample ID: SP 5 @ 7' (H402839-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	09/16/2014	ND	416	104	400	8.00	

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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*109 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*123 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 7' (H402839-05)

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	09/18/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*110 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*127 %*	*63.6-154*

Sample ID: SP 7 @ 9' (H402839-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	09/18/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*108 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*124 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Burgundy
Project Manager:	NATALIE GLADDEN
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	State Vacuum Unit Well #15
Sampler Name:	Edward Cesarco

BILL TO

P.O. #:	Diversified
Company:	Burgundy
Attn:	Ben Taylor
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CHLORIDES	TPH
H402839-1	Sp.2@8'	G	1			/					/		9-11-14	9:00	/	/
-2	Sp.3@5'	G	1			/					/			9:05	/	/
-3	Sp.4@7'	G	1			/					/			9:10	/	/
-4	Sp.5@7'	G	1			/					/			9:15	/	/
-5	Sp.6@7'	G	1			/					/			9:20	/	/
-6	Sp.7@9'	G	1			/					/			1:30	/	/

Relinquished By:	Date: 9-11-14	Received By:	
	Time: 5:30		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.6°C

Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) KP

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com
ecesarco@diversifiedfsi.com
mburton@diversifiedfsi.com

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

#5V

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 17, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: STATE VACUUM UNIT WELL #15

Enclosed are the results of analyses for samples received by the laboratory on 10/10/14 16:20.

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 accreditated 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #1 2' OUT (H403129-01)

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	1.77	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *77.9 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *87.0 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #2 2' OUT (H403129-02)

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	1.77	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	**32.0**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *77.8 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *85.0 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #3 8' OUT (H403129-03)

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 *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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *78.7 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *87.1 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #4 2' OUT (H403129-04)

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 *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
Chloride	**848**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *79.2 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *85.6 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #5 4' OUT (H403129-05)

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 *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
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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *80.9 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *87.6 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #6 4' OUT (H403129-06)

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	10/16/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/16/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/16/2014	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
Chloride	**800**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *86.1 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *93.0 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #7 10' OUT (H403129-07)

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	10/16/2014	ND	1.77	88.5	2.00	9.77	
Toluene*	<0.050	0.050	10/16/2014	ND	1.67	83.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.59	79.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.76	79.4	6.00	10.1	
Total BTEX	<0.300	0.300	10/16/2014	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
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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *85.7 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *93.6 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #8 2' OUT (H403129-08)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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
Chloride	**176**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *85.6 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *92.8 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #9 4' OUT (H403129-09)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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
Chloride	**32.0**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *82.0 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *88.3 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #10 28' OUT (H403129-10)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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	**464**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *86.0 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *93.9 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #11 34' OUT (H403129-11)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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	**400**	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *82.0 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *89.6 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #12 12' OUT (H403129-12)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *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	**1200**	16.0	10/14/2014	ND	416	104	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *85.4 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *92.5 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #13 (H403129-13)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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
Chloride	**624**	16.0	10/14/2014	ND	416	104	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *85.3 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *91.0 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #14 8' OUT (H403129-14)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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	**848**	16.0	10/14/2014	ND	416	104	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	172	86.2	200	5.00	
DRO >C10-C28	<10.0	10.0	10/14/2014	ND	170	85.2	200	0.657	

Surrogate: 1-Chlorooctane *82.1 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *90.0 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #15 2' OUT (H403129-15)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *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	**2400**	16.0	10/14/2014	ND	416	104	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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	

Surrogate: 1-Chlorooctane *87.0 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *97.2 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #16 4' OUT (H403129-16)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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
Chloride	**448**	16.0	10/14/2014	ND	416	104	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	10/15/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	183	91.3	200	4.55	

Surrogate: 1-Chlorooctane *92.7 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *101 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/17/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SIDEWALL #17 16' OUT (H403129-17)

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	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	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	**816**	16.0	10/14/2014	ND	416	104	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	10/15/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	183	91.3	200	4.55	

Surrogate: 1-Chlorooctane *85.0 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *93.6 %* *52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Burgundy
Project Manager:	Ben Taylor / Natale Gladden
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	State Vacuum Unit Well #15
Sampler Name:	Edward Cesareo

BILL TO

P.O. #:	
Company:	Burgundy
Attn:	Ben Taylor
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CHLORIDES	TPH	BTEX
H403129-1	SIDE WALL #1, 2' out	G	1			X					X		10-10-14	9:00	X	X	X
-2	SIDE WALL #2, 2' out	G	1			X					X			9:05	X	X	X
-3	SIDE WALL #3, 8' out	G	1			X					X			9:10	X	X	X
-4	SIDE WALL #4, 2' out	G	1			X					X			9:15	X	X	X
-5	SIDE WALL #5, 4' out	G	1			X					X			9:20	X	X	X
-6	SIDE WALL #6, 4' out	G	1			X					X			9:25	X	X	X
-7	SIDE WALL #7, 10' out	G	1			X					X			9:30	X	X	X
-8	SIDE WALL #8, 2' out	G	1			X					X			9:35	X	X	X
-9	SIDE WALL #9, 4' out	G	1			X					X			9:40	X	X	X
-10	SIDE WALL #10, 28' out	G	1			X					X			9:45	X	X	X

Relinquished By:	Date: 10-10-14	Received By:	
	Time: 4:20		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.7°C

Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) KP

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com
ecesarco@diversifiedfsi.com

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

+4/1

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Burgundy
Project Manager: Ben Taylor / Natalie Gladden
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name:
Project Location:
Sampler Name:

BILL TO
P.O. #:
Company: Burgundy
Attn: Ben Taylor
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CHLORIDES	TPH	BTEX
11	SIDEWALL #11, 34' out	G	1			/					/		10-10-14	9:50	/	/	/
12	SIDE WALL #12, 12' out	G	1			/					/			9:55	/	/	/
13	SIDEWALL #13,	G	1			/					/			10:00	/	/	/
14	SIDE WALL #14, 8' out	G	1			/					/			10:05	/	/	/
15	SIDE WALL #15, 2' out	G	1			/					/			10:10	/	/	/
16	SIDE WALL #16, 4' out	G	1			/					/			10:15	/	/	/
17	SIDE WALL #17, 16' out	G	1			/					/			10:20	/	/	/
														10:25	/	/	/

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the 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: Date: 10-10-14 Time: 4:20 Received By:
Relinquished By: Date: Time: Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com
ecesareo@diversified.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.7°c

Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No
CHECKED BY: (Initials) KP

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

152

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 27, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: STATE VACUUM UNIT WELL #15

Enclosed are the results of analyses for samples received by the laboratory on 10/21/14 16:10.

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 accreditated 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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/21/2014	Sampling Date:	10/10/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SW. 12 @ 14' OUT (H403239-01)

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	10/22/2014	ND	1.88	94.1	2.00	3.68	
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96	
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16	
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24	
Total BTEX	<0.300	0.300	10/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	10/22/2014	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	10/22/2014	ND	203	101	200	1.94	
DRO >C10-C28	<10.0	10.0	10/22/2014	ND	205	102	200	2.91	

Surrogate: 1-Chlorooctane *114 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *125 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/21/2014	Sampling Date:	10/10/2014
Reported:	10/27/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SW. 15 @ 4' OUT (H403239-02)

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	10/22/2014	ND	1.88	94.1	2.00	3.68	
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96	
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16	
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24	
Total BTEX	<0.300	0.300	10/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	10/22/2014	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	10/22/2014	ND	203	101	200	1.94	
DRO >C10-C28	<10.0	10.0	10/22/2014	ND	205	102	200	2.91	

Surrogate: 1-Chlorooctane *119 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *129 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Burgundy
Project Manager: Ben Taylor
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name:
Project Location: State Vacuum well unit #15
Sampler Name: Eduardo Cesareo

BILL TO
P.O. #:
Company: Burgundy
Attn: Ben Taylor
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	CHLORIDES	TPH	BTEX
H403239	* SW SP12 @14' out	G	1			1					1		10-10-14	1:50	/	/	/
	~~SP15~~ @ 4' out SW	G	1			1					1		10-10-14	1:55	/	/	/

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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: Date: 10-21-14 Time: 4:10 — Received By: Jodi Henson
Relinquished By: Date: Time: — Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 11.8°C

Sample Condition: Cool: ☐ Yes ☐ No — Intact: ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com
ecesareo@diversifiedfsi.com
RUSH!!
* Sample IDs changed as per Rebecca. 10/27/14 ck

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

#54

DIVERSIFIED FIELD SERVICES, INC.

Project: Vaccaro 15

Date Started: 10/17/14

Seed and lbs used: BLM 2 75 4 25 /50lbs

Date Completed: 10/17/17

Supervisor: _____

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905

BLM # 2 400 bulk pounds INV54782

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	45.11%	87.00%	1.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	20.28%	9.00%	89.00%	0.00%	
Lovegrass Sand, "Bend" (Eragrostis trichodes)	21.37%	93.00%	0.00%	0.00%	TX

Purity: 86.76% Inert Matter: 10.98% Other Crop Seed: 0.13% Weed Seed: 2.13%

Noxious Weeds: None Test Date: 06/2014 Net Wt 25.00 lbs

Bamert Seed Company Inc.

Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905

INV54024

	Pure Seed	Germ	Dormant	Hard Seed	Origin
"VNS" (Sporobolus Airoides)	10.11%	90.00%	0.00%	0.00%	TX
"VNS" (Atriplex	87.07%	52.00%	15.00%	0.00%	NM

nert Matter: 2.79% Other Crop Seed: 0.01% Weed Seed: 0.01%

2014 Net Wt: 25.00 lbs

BURGUNDY OIL & GAS OF NEW MEXICO, INC.

Ben Taylor

State Vacuum Unit #15

REMEDIATION WORK PLAN

API No. 30-025-02173

Release Date: 08/28/2014

Unit I, Section 32, Township 17 South, Range 34 East

2RP - 3300

September 22, 2014

Prepared by:

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

BURGUNDY OIL & GAS OF NEW MEXICO, INC.

Tom Oberding, PhD
NM Oil Conservation District 1
1625 N. French Drive
Hobbs, NM 88240

RE: Burgundy Oil & Gas State Vacuum Unit #015 – Remediation Work Plan

Mr. Oberding,

Burgundy Oil & Gas has retained Diversified Field Services, Inc. (DFSI) to address environmental issues for the site detailed herein.

The leak resulted from a produced water leak which occurred on August 28th, 2014. The source of the leak was due to the line rupturing from the wellhead. A C-141 was submitted to the NMOCD on September 5, 2014 (2RP – 3300).

Site Assessment and Delineation

On September 9, 2014 DFSI personnel obtained surface and delineation samples of the leak area, which included SP1-SP7. SP1 and SP2, were delineated with use of a backhoe and the soil would not permit any further trenching, the remainder of the sample points DFSI was able to obtain samples under the required level allowed by the NMOCD.

Field samples were taken on seven sample points, along with four boreholes, each sample was tested for chlorides levels as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples found under the NMOCD standards, were taken to Cardinal Lab of Hobbs to obtain confirmation samples. And the results confirmed that bottom samples of each sample point were as follows:

SP1: Samples were not taken to the lab due to high field concentration levels.
SP2: 8' – 1300 mg/kg chlorides, <10 mg/kg TPH 8015M
SP3: 5' – 704 mg/kg chlorides, <10 mg/kg TPH 8015M
SP4: 7' – 944 mg/kg chlorides, <10 mg/kg TPH 8015M
SP5: 7' – 992 mg/kg chlorides, <10 mg/kg TPH 8015M
SP6: 7' – 816 mg/kg chlorides, <10 mg/kg TPH 8015M
SP7: 9' – 704 mg/kg chlorides, <10 mg/kg TPH 8015M

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer, no groundwater was found for this area. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

Option 1

Excavate the total area of 3,823 sq. ft. of impacted soil to 4', haul the contaminated soil to an approved NMOCD Disposal, line with a 20 mil liner, backfill with imported soil and reseed the entire area with a native vegetation mixture as per the BLM's guidelines for returning the site to its natural state.

Option 2

Excavate the total area of 3,823 sq. ft. of impacted soil to 7'bgs with the exception of SP3 which would be excavated to 5'bgs. The contaminated soil would be then hauled to an approved NMOCD Disposal, the excavated area would be backfilled with imported soil and the site would be reseeded with a native vegetation mixture as per the BLM's guidelines for returning the site to its natural state.

Sidewall samples will be taken during the excavation procedure to ensure that all of contaminates have been remediated. These samples will also be taken to an approved lab for confirmation before backfilling will take place.

Following the approval of one of the above plans, either Option 1 or Option 2 above and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD in accordance to the State and Federal Guidelines set forth.

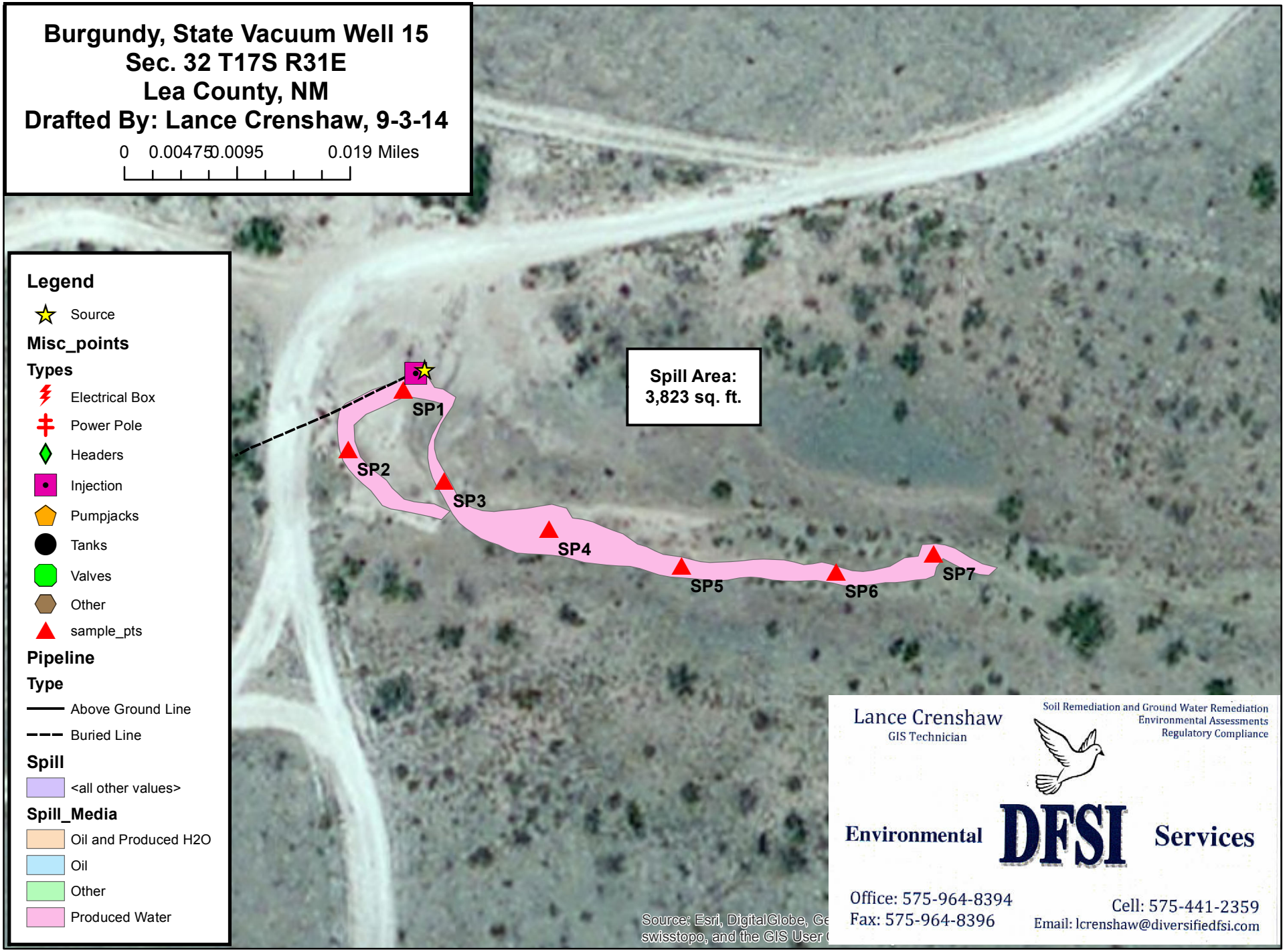
Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Natalie Gladden
Environmental Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575) 964-8394
Mobile: (575) 602-1786
Fax: (575) 964-8396
Email: ngladden@diversifiedfsi.com

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Lab Analytical Data

Site Diagram



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: Burgundy Oil and Gas of New Mexico	Contact: Ben Taylor
Address: 401 W Texas Suite 1003 Midland, TX 79701	Telephone No. 432-684-4033
Facility Name: State Vacuum Unit #15	Facility Type: WIW

Surface Owner State	Mineral Owner State	API No. 30-025-02173

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County
I	32	17S	34E	1980	South	680	East	Lea

Latitude: 32.7895034299485 Longitude -103.576372754491

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 3bbls	Volume Recovered 3bbls
Source of Release: Flowline	Date and Hour of Occurrence 08-28-14 14:00	Date and Hour of Discovery 08-28-14 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD M Whitaker	
By Whom? Ben Taylor	Date and Hour: 08/28/14 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.* A rupture occurred in an injection line next to the well. DFSI was retained to repair the line and remediate the site.

Describe Area Affected and Cleanup Action Taken. Leak traversed 387 ft south of the well and ran 4ft wide in pasture area. DFSI has been retained to fully remediate the site according to NMOCD guidelines.

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: *Ben Taylor*	OIL CONSERVATION DIVISION	
Printed Name: Ben Taylor	Approved by Environmental Specialist:	
Title: Field Foreman	Approval Date:	Expiration Date:
E-mail Address: btaylor.bogi@att.net	Conditions of Approval:	Attached ☐
Date: 09/02/2014 Phone: 432—557-2684		

* Attach Additional Sheets If Necessary

Diversified Environmental Services

Company Name: BURGUNDY SP Date: 9/9/2014
Location Name: STATE VACUUM WELL #15 Rel Date: 8/28/2014

SP1	CHL	TPH
SURFACE	4,615	7.3
1'	3,824	2.1
2'	2224	20.6
3'	1899	9
4'	2623	8.8
5'	3548	9.2
6'	3548	5.6
7'	4248	2.7
8'	3523	5.8
9'	3823	1.2
10'	1424	1
11'	1399	0.2
12'	3099	0.3
13'	3024	0.8
14'	3298	1
15'	2224	0.6
16'	Backhoe refusal	

SP2	CHL	TPH
SURFACE	7,497	2.4
1'	4,523	4
2'	1,724	5.2
3'	1,599	2.7
4'	1348	14.6
5'	1024	2.2
6'	1224	8.6
7'	1874	10.7
7'	1300	<10
9'		
10'		
11'		
12'		
13'		
14'		
15'		
16'		

SP3	CHL	TPH
SURFACE	9,497	2.4
1'	3,873	9.5
2'	1,899	2.8
3'	1,399	4.3
4'	1.499	1.3
5'	749	1.2
5'	704	<10
7'		
8'		
9'		
10'		
11'		
12'		
13'		
14'		
15'		
16'		

SP4	CHL	TPH
SURFACE	10,871	2.3
1'	1,199	5
2'	1,824	4.3
3'	1,549	4.2
4'	1399	1.8
5'	1149	2
6'	1074	1.9
7'	749	2.3
7'	944	<10
9'		
10'		
11'		
12'		
13'		
14'		
15'		
16'		

SP5	CHL	TPH
SURFACE	13,245	1.9
1'	5,123	4.9
2'	4,448	5
3'	2124	1.6
4'	1499	1.69
5'	1624	2.1
6'	1099	2.8
7'	774	2
7'	992	<10
9'		
10'		
11'		
12'		
13'		
14'		
15'		
16'		

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SP6	CHL	TPH
SURFACE	14,995	2.4
1'	3,498	28.2
2'	2,624	10.7
3'	3,248	10.1
4'	2624	3.8
5'	2499	2.9
6'	1124	2
7'	674	0.5
7'	816	<10
9'		
10'		
11'		
12'		
13'		
14'		
15'		
16'		

SP7	CHL	TPH
SURFACE	12,621	1.8
1'	1,874	3.4
2'	2,499	2
3'	2,099	1.5
4'	1,649	1.2
5'	1524	1.5
6'	1474	0.8
7'	1574	2
8'	1224	1.9
9'	624	1.8
9'	704	<10
11'		
12'		
13'		
14'		
15'		
16'		

SP8	CHL	TPH

SP9	CHL	TPH

SP10	CHL	TPH

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 18, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: STATE VACUUM UNIT WELL #15

Enclosed are the results of analyses for samples received by the laboratory on 09/11/14 15:30.

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 accreditated 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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 8' (H402839-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1300**	16.0	09/12/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*99.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*104 %*	*63.6-154*

Sample ID: SP 3 @ 5' (H402839-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	09/12/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*98.9 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*106 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 7' (H402839-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	09/15/2014	ND	416	104	400	8.00	

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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*104 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*117 %*	*63.6-154*

Sample ID: SP 5 @ 7' (H402839-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	09/16/2014	ND	416	104	400	8.00	

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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*109 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*123 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/18/2014	Sampling Type:	Soil
Project Name:	STATE VACUUM UNIT WELL #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 7' (H402839-05)

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	09/18/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*110 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*127 %*	*63.6-154*

Sample ID: SP 7 @ 9' (H402839-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	09/18/2014	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	09/13/2014	ND	189	94.7	200	0.886	
DRO >C10-C28	<10.0	10.0	09/13/2014	ND	220	110	200	0.526	

Surrogate: 1-Chlorooctane	*108 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*124 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Burgundy
Project Manager:	NATALIE GLADDEN
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	State Vacuum Unit Well #15
Sampler Name:	Edward Cesarco

BILL TO

P.O. #:	Diversified
Company:	Burgundy
Attn:	Ben Taylor
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CHLORIDES	TPH
H402839-1	Sp.2@8'	G	1			/					/		9-11-14	9:00	/	/
-2	Sp.3@5'	G	1			/					/			9:05	/	/
-3	Sp.4@7'	G	1			/					/			9:10	/	/
-4	Sp.5@7'	G	1			/					/			9:15	/	/
-5	Sp.6@7'	G	1			/					/			9:20	/	/
-6	Sp.7@9'	G	1			/					/			1:30	/	/

Relinquished By:	Date: 9-11-14	Received By:	
	Time: 5:30		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.6°C

Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) KP

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com
ecesarco@diversifiedfsi.com
mburton@diversifiedfsi.com

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

#5V

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: Burgundy Oil and Gas of New Mexico	Contact: Ben Taylor
Address: 401 W Texas Suite 1003 Midland, TX 79701	Telephone No. 432-684-4033
Facility Name: State Vacuum Unit #15	Facility Type: WIW

Surface Owner State	Mineral Owner State	API No. 30-025-02173

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County
I	32	17S	34E	1980	South	680	East	Lea

Latitude: 32.7895034299485 Longitude -103.576372754491

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 3bbls	Volume Recovered 0bbls
Source of Release: Flowline	Date and Hour of Occurrence 08-28-14 14:00	Date and Hour of Discovery 08-28-14 14:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD M Whitaker	
By Whom? Ben Taylor	Date and Hour: 08/28/14 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
A rupture occurred in an injection line next to the well. DFSI was retained to remediate the site.

Describe Area Affected and Cleanup Action Taken.
This site has been fully remediated to the NMOCD Guidelines for Releases and Spills. A Closure report has been submitted with this attached Final C-141

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: Ben Taylor	OIL CONSERVATION DIVISION	
Printed Name: Ben Taylor	Approved by Environmental Specialist:	
Title: Field Foreman	Approval Date:	Expiration Date:
E-mail Address: btaylor.bogi@att.net	Conditions of Approval:	Attached ☐
Date 11/20/2014 Phone: 432-557-2684		

* Attach Additional Sheets If Necessary