

DEVON ENERGY

VEGA 29 FEDERAL COM 1H BATTERY

(VEGA 29 FED COM 3H)

CLOSURE REPORT

2RP-2533

API No. 30-015-41624

Release Date: 10/04/2014

Unit Letter B, Section 29, Township 19 South, Range 31 East

December 8, 2014

Prepared by:

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

Table of Contents

- 1 Introduction
- 2 Site Activities
- 3 Conclusion

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Remediation Plan

Appendix III – Site Map

Appendix IV – Laboratory Analyses

Appendix V – Site Photographs

Appendix VI – Ground Water Report

Appendix VII – Final Form C141

DEVON VEGA 29 FEDERAL COM 1H BATTERY

1 Introduction

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

The site is located south west of Maljamar NM, in Eddy County. The leak site resulted from a produced water leak. The source of the leak was due to Arapahoe Oilfield Services failing to haul fluid, causing the frac tanks to overflow. A C-141 was submitted to the NMOCD on October 04, 2014 (2RP-2533 – Appendix I). The release covered an area of 13,656 square feet.

2 SITE ACTIVITIES

On October 04, 2014 DFSI personnel entered the site to map (Appendix III) and collect surface soil samples, which included 14 sample points. The samples were field screened for chloride and indicated that all surface samples were elevated in chlorides above regulated concentration levels. The highest level of chloride analyses was at SP12. Please see data of field sampling below:

SP1: Surf – 15,770 mg/kg Cl⁻
SP2: Surf – 11,546 mg/kg Cl⁻
SP3: Surf – 11,021 mg/kg Cl⁻
SP4: Surf – 13,620 mg/kg Cl⁻
SP5: Surf – 19,418 mg/kg Cl⁻
SP6: Surf – 13,245 mg/kg Cl⁻
SP7: Surf – 16,369 mg/kg Cl⁻
SP8: Surf – 13,645 mg/kg Cl⁻
SP9: Surf – 10,996 mg/kg Cl⁻
SP10: Surf – 15,920 mg/kg Cl⁻
SP11: Surf – 11,296 mg/kg Cl⁻
SP12: Surf – 29,440 mg/kg Cl⁻
SP13: Surf – 13,220 mg/kg Cl⁻
SP14: Surf – 17,244 mg/kg Cl⁻

On October 8th and 9th, 2014 DFSI personnel revisited the site to fully delineate all sample points. Each sample point was tested for chloride levels as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean samples found under the BLM/NMOCD standards were taken to Cardinal Laboratories in Hobbs to obtain confirmation samples (Appendix IV). Detailed lab confirmation below:

SP1: 1'bgs – 464 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg GRO & 53.3 mg/kg DRO 8015M

SP2: 1'bgs – 160 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP3: 1'bgs – 560 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP4: 1'bgs – 288 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP5: 1'bgs – 560 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP6: 1'bgs – 784 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP7: 1'bgs – 960 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP8: 1'bgs – 496 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP9: 1'bgs – 592 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP10: 1'bgs – 320 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP11: 1'bgs – 384 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP12: 2'bgs – 416 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP13: 5'bgs – 320 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SP14: 4'bgs – 416 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

On November 04, 2014, the work plan was submitted and approved by Devon Energy and Arapahoe Oilfield Services (Appendix II). The work plan was then submitted to the NMOCD and BLM on November 05, 2014 and approved same said date. A one-call was then placed for the entire impacted area to begin the remediation.

On November 07, 2014, DFSI personnel revisited the site to begin remediation. Devon Energy One-Call Specialist instructed DFSI to hand-spot and hand dig out each line on location before excavation with heavy equipment could begin. Sample Points 1-4 and parts of SP5 were excavated to 1' below ground surface.

On November 10, 2014, DFSI personnel revisited the site to continue the excavation. A representative from Devon also visited the site to witness the hand digging of high pressure lines four feet on each side of the lines and 1' below ground surface. Sample points 13 and 14 were excavated to a depth of 7' and 5' below ground surface, respectively. The initial work-plan called for an excavation of 4' and 5' below ground surface in the same said areas, but clean bottom samples were not attained at those depths, thus DFSI personnel had to excavate deeper. Please see confirmation information below.

On November 11, 2014 DFSI personnel revisited the site to continue excavation and conduct sidewall and bottom sampling. The majority of the 13,656 sq. ft. area was excavated to 1' below ground surface, which included SP1-SP11. SP12 was excavated to 2'bgs, SP13 was excavated to 7'bgs and SP14 was excavated to 5'bgs. The contaminated soils from this excavation were hauled to Lea Land LLC, an approved NMOCD/BLM disposal facility.

From November 11 through 13, 2014, all clean sidewall and bottom samples found under the NMOCD/BLM standards were taken to Cardinal Laboratories in Hobbs to obtain confirmation samples (Appendix IV). Detailed lab confirmation below:

BS1: 7'bgs – 192 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M (Sample Point 13)

BS2: 5'bgs - <16 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M (Sample Point 14)

North Wall: 256 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

South Wall: 96 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

East Wall: 192 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

West Wall: 80 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SW-N: 272 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SW-E: 464 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SW-S: 32 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

SW-W: 48 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

BS2: 32 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

BS3: 48 mg/kg, Cl⁻, <0.300 mg/kg BTEX, <10mg/kg TPH 8015M

From November 13 through November 18, 2014, DFSI personnel continued to haul stockpiled contamination to Lea Land and caliche to backfill the site. A blade and water truck were brought in on November 13, 2014 to assist in the contouring of the pad. On November 18, 2014, the site was completed and returned to pristine condition.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages 236 ft. bgs. (Appendix VI). Based on the removal of soils containing elevated chloride and visual staining at the site, Devon Energy and Arapahoe Oilfield Services respectfully requests the closure of the regulatory file for the site. Final C-141 is attached. (Appendix VII).

NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 06 2014

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1428154809		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company Devon Energy		Contact Rudy Zuniga (Production Foreman)			
Address PO Box 250 Artesia, NM 88211		Telephone No. (575) 390-5435			
Facility Name Vega 29 Federal Com 1H Battery (closest well - Vega 29 Fed Com 3H)		Facility Type Oil and Gas Production			
Surface Owner BLM		Mineral Owner BLM		API No. 30-015-41624 (3H)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	29	19S	31E	147'	North Line	2470'	East Line	Eddy County

Latitude 32.63837 Longitude -103.89069

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35	Volume Recovered 20
Source of Release Failure to haul fluid (Arapahoe)	Date and Hour of Occurrence 10/04/2014 11am	Date and Hour of Discovery 10/04/2014 11am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Natalie Gladden (DFSI Environmental)	Date and Hour 10/06/2014 10am - BLM J. Robertson/10:02am NMOCD M. Bratcher	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Arapahoe Trucking failed to haul fluid causing the tanks to overflow. A vacuum truck was called out to recover standing fluid and was able to recover approximately 20bbls of produced water. DFSI completed the Environmental Assessment, mapped the site and surface samples.

Describe Area Affected and Cleanup Action Taken.*

A total of 13,656 sq. ft. of impacted surface was determined. Twelve sample points were set, sampled and will be delineated. Once the site has been fully delineated a Remediation Work Plan will be submitted to both the BLM/NMOCD. All rules and regulations will be followed to closure of this site.

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: <i>Stacie Singleton</i>		OIL CONSERVATION DIVISION	
Printed Name: Stacie Singleton		Approved by Environmental Specialist: <i>Mike Bratcher</i>	
Title: Environmental Professional		Approval Date: 10/8/14	Expiration Date: N/A
E-mail Address: Stacie.singleton@dvn.com		Conditions of Approval:	
Date: 10/06/2014 Phone: (575) 513-2129		Attached <input type="checkbox"/>	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 11/8/14

* Attach Additional Sheets If Necessary

28P-2533



Vega 29 Federal Com 1H Battery

REMEDIATION WORK PLAN

API No. 30-015-41624 (Vega 29 Federal Com 3H)

Release Date: 10/04/2014

Unit Letter B, Section 29, Township 19 South, Range 31 East

October 23, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
3412 N. Dal Paso
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: Devon Energy Vega 29 Federal Com 1H Battery (Vega 29 Fed Com 3H)
UL/B, Section 29, T19S, R31E
API No. 30-015-41624 **(3H)**

Mr. Bratcher,

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

The site is located south west of Maljamar NM, in Eddy County. The leak site resulted from a produced water leak. The source of the leak was due to Arapahoe Oilfield Services failed to haul fluid causing the frac tanks to overflow. A C-141 was submitted to the NMOCD on August 06, 2014 (2RP-2533 – see attached). The release stayed on location, no fluids entered the pasture area.

Site Assessment and Delineation

On October 4th, 2014, DFSI personnel obtained surface samples of the leak area, which included SP1-SP14. On October 8th, 2014 delineation took place on all 14 sample points. We returned to the site on October 9th, to retrieve clean bottom hole samples for SP1, SP12 and SP13. All of the sample points cleaned up below the required levels except for SP7 which was 40mg/kg over the required 1000mg/kg level, this SP will be field sampled and taken to the lab during the excavation process. The analyticals from the second sampling event were accepted by Cardinal Labs of Hobbs with the sample condition of cool and intact at -7 degrees Celsius. No field blank sampling was done during the field delineation process.

Field samples were taken on fourteen sample points, 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 BLM/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: 1'bgs – 464 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg GRO & 53.3 mg/kg DRO 8015M

SP2: 1'bgs – 160 mg/kg Cl⁻, <0.300 mg/kg BTEX, <10 mg/kg TPH 8015M

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DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 236 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

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

Excavate the majority of the 13,656 sq. ft. area of impacted soil to 1'bgs, which includes SP1-SP11, SP12 will be excavated to 2'bgs, SP13 to 5'bgs and SP14 to 4'bgs; haul the contaminated soil to an approved disposal site, and backfill with fresh imported caliche, then the location pad will be compacted and contoured.

Side wall samples will be taken during the excavation procedure to ensure that all contaminants 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 remediation plan and after the remediation has taken place, 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,



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

cc Jeff Robertson
NM Bureau of Land Management

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

NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 06 2014

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

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Energy Minerals and Natural Resources

Oil Conservation Division
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By Whom? Natalie Gladden (DFSI Environmental)	Date and Hour 10/06/2014 10am - BLM J. Robertson/10:02am NMOCD M. Bratcher	
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Arapahoe Trucking failed to haul fluid causing the tanks to overflow. A vacuum truck was called out to recover standing fluid and was able to recover approximately 20bbls of produced water. DFSI completed the Environmental Assessment, mapped the site and surface samples.

Describe Area Affected and Cleanup Action Taken.*

A total of 13,656 sq. ft. of impacted surface was determined. Twelve sample points were set, sampled and will be delineated. Once the site has been fully delineated a Remediation Work Plan will be submitted to both the BLM/NMOCD. All rules and regulations will be followed to closure of this site.

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OIL CONSERVATION DIVISION

Signature: Stacie Singleton	SIGNED BY: Mike Bratcher	
Printed Name: Stacie Singleton	Approved by Environmental Specialist	
Title: Environmental Professional	Approval Date: 10/8/14	Expiration Date: N/A
E-mail Address: Stacie.singleton@dvn.com	Conditions of Approval:	
Date: 10/06/2014 Phone: (575) 513-2129	Attached <input type="checkbox"/>	

Remediation per O.C.D. Rules & Guidelines

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 11/8/14

* Attach Additional Sheets If Necessary

28P-2533

Site Diagram

Devon, Vega Federal Battery 29-1
Sec. 29 T19S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 10-4-14







0 0.00325 0.0065 0.013 Miles



Legend

Misc_points

Types

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

Pipeline

Type

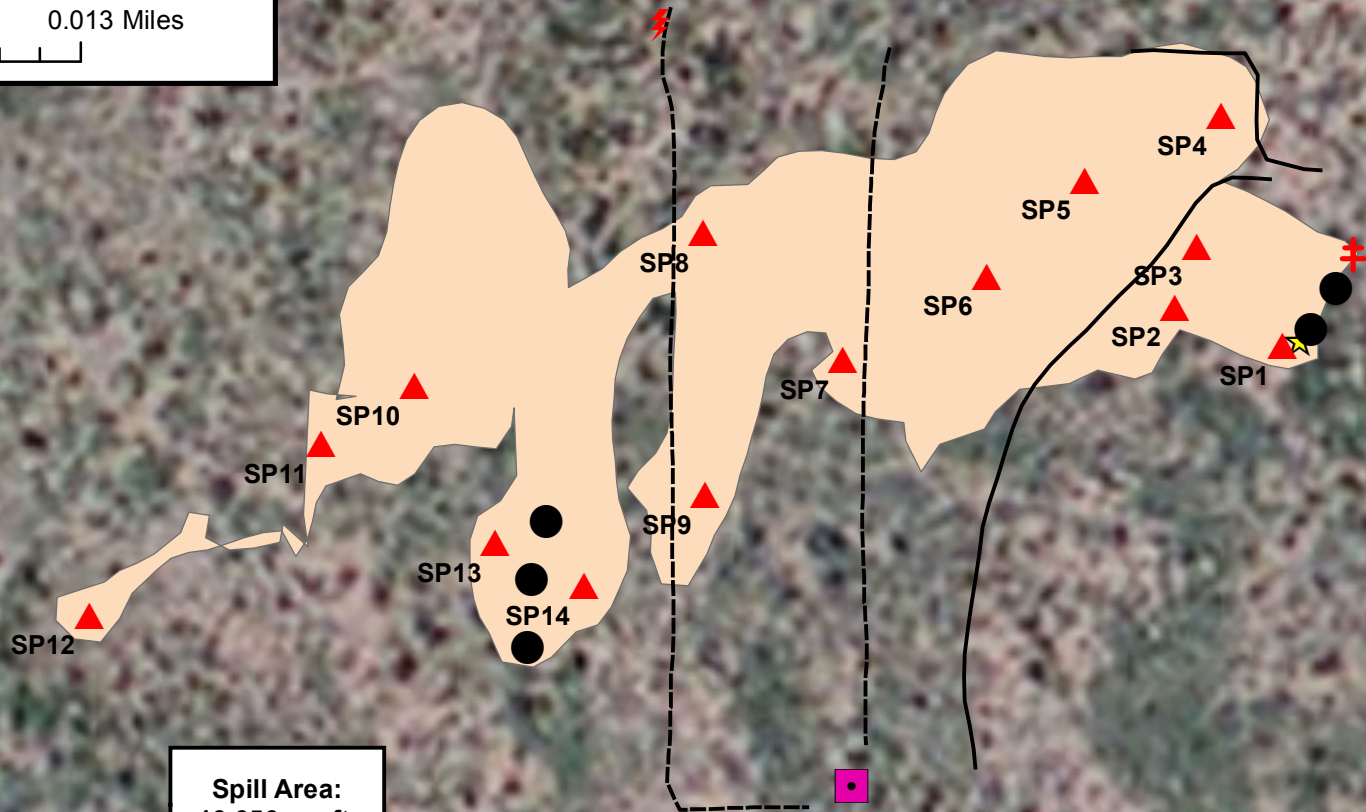
- Above Ground Line
 - - - Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H₂O
Oil
Other
Produced Water



**Spill Area:
13,656 sq. ft.**

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394

Fax: 575-964-8396

Cell: 575-441-2359

Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS User Community

[illegible][illegible][illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

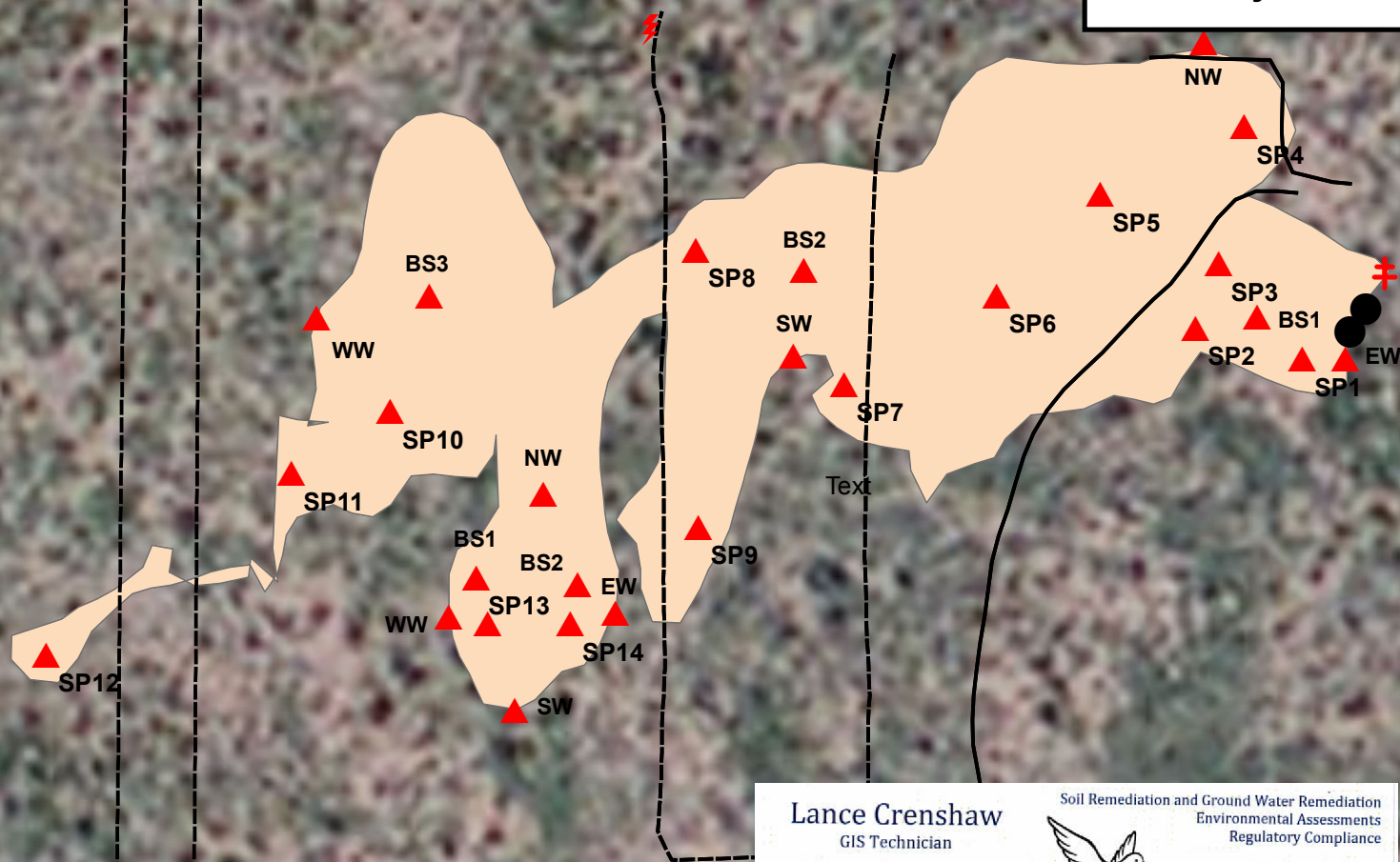
[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Site Diagram

Devon, Vega Federal Battery 29-1
Sec. 29 T19S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 11-10-14



Legend

Misc_points

Types

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

Pipeline

Type

- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

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

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

October 13, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: DEVON VEGA 29 FEDERAL 1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/10/14 8:30.

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 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:

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

Received:	10/10/2014	Sampling Date:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H403118-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTX	<0.300	0.300	10/10/2014	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	464	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	53.3	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H403118-02)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	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
Chloride	176	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	105	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H403118-03)

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	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTEx	<0.300	0.300	10/10/2014	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	160	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 96.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H403118-04)

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	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTEx	<0.300	0.300	10/10/2014	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
Chloride	288	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 95.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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NATALIE GLADDEN
P. O. BOX 5966
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Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H403118-05)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	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	560	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 99.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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NATALIE GLADDEN
P. O. BOX 5966
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Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H403118-06)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	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
Chloride	432	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 99.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H403118-07)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	288	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H403118-08)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	320	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 98.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H403118-09)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTX	<0.300	0.300	10/10/2014	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	896	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56		
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81		

Surrogate: 1-Chlorooctane 98.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 2' (H403118-10)

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	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTEx	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	240	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H403118-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	784	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 96.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 2' (H403118-12)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTX	<0.300	0.300	10/10/2014	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	288	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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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:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H403118-13)

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	10/10/2014	ND	1.59	79.6	2.00	14.5		
Toluene*	<0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.37	72.8	6.00	15.5		
Total BTEx	<0.300	0.300	10/10/2014	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	
Chloride	960	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 95.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/08/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 2' (H403118-14)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTX	<0.300	0.300	10/10/2014	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	1040	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56		
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81		

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H403118-15)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	496	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 93.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 2' (H403118-16)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTX	<0.300	0.300	10/10/2014	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
Chloride	160	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 98.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 1' (H403118-17)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTX	<0.300	0.300	10/10/2014	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	592	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 98.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 2' (H403118-18)

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	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTEx	<0.300	0.300	10/10/2014	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	
Chloride	80.0	16.0	10/12/2014	ND	432	108	400	3.77		

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 1' (H403118-19)

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	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTEx	<0.300	0.300	10/10/2014	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
Chloride	320	16.0	10/12/2014	ND	432	108	400	3.77	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 99.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 2' (H403118-20)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	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
Chloride	240	16.0	10/12/2014	ND	432	108	400	7.69	

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	10/10/2014	ND	173	86.7	200	5.56	
DRO >C10-C28	<10.0	10.0	10/10/2014	ND	182	90.8	200	6.81	

Surrogate: 1-Chlorooctane 94.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 1' (H403118-21)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	384	16.0	10/12/2014	ND	432	108	400	7.69	

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 98.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 2' (H403118-22)

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	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEx	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	10/12/2014	ND	432	108	400	7.69		

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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NATALIE GLADDEN
P. O. BOX 5966
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Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 1' (H403118-23)

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	10/10/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40		
Total BTEx	<0.300	0.300	10/10/2014	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	1010	16.0	10/12/2014	ND	432	108	400	7.69		

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 2' (H403118-24)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	416	16.0	10/12/2014	ND	432	108	400	7.69	

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 1' (H403118-25)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	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	
Chloride	1170	16.0	10/12/2014	ND	432	108	400	7.69		

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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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:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 2' (H403118-26)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTX	<0.300	0.300	10/10/2014	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
Chloride	1200	16.0	10/12/2014	ND	432	108	400	7.69	

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 14 @ 3' (H403118-27)

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	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEx	<0.300	0.300	10/10/2014	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
Chloride	416	16.0	10/12/2014	ND	432	108	400	7.69	

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	10/11/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/09/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16708	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP 14 @ 4' (H403118-28)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2014	ND	1.71	85.6	2.00	4.04		
Toluene*	<0.050	0.050	10/11/2014	ND	1.66	83.1	2.00	3.13		
Ethylbenzene*	<0.050	0.050	10/11/2014	ND	1.60	80.0	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/11/2014	ND	4.79	79.9	6.00	4.40		
Total BTX	<0.300	0.300	10/11/2014	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	80.0	16.0	10/12/2014	ND	432	108	400	7.69		

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	10/11/2014	ND	182	90.8	200	1.56		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	184	91.9	200	3.04		

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Aralpha Inc</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Steven Callaway</u>		P.O. #: <u>16708</u>			
Address:		Company: <u>Diversified</u>			
City:	State:	Attn:			
Phone #:	Fax #:	Address:			
Project #:	Project Owner:	City: <u>Hickory</u>			
Project Name:		State: <u>NM</u>	Zip: <u>88240</u>		
Project Location: <u>Devon Vega 29 Federal battery</u>		Phone #:			
Sample Name: <u>Talon Long</u>		Fax #:			

FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
<u>H403118-</u>	<u>SP1 @ 1'</u>	<u>X</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:00</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>01</u>	<u>SP1 @ 2'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:10</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>02</u>	<u>SP2 @ 1'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:20</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>03</u>	<u>SP2 @ 2'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:30</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>04</u>	<u>SP3 @ 1'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:40</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>05</u>	<u>SP3 @ 2'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>7:50</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>06</u>	<u>SP4 @ 1'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>8:00</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>07</u>	<u>SP4 @ 2'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>8:10</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>08</u>	<u>SP5 @ 1'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>8:25</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>
<u>09</u>	<u>SP5 @ 2'</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-8-14</u>	<u>8:35</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>

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Relinquished By: <u>[Signature]</u>	Date: <u>10/10/14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Date: <u>8:35</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:

E-mail Results To: Ngladden@diversifiedfsi.com

Remarks:

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

Temperature: 52°C

Sample Condition: Cool ☒ Intact ☒

CHECKED BY: [Signature] (Initials)

Phone Number: Rpons@diversifiedfsi.com

Signature: [Signature]



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

2073

Page 32 of 33



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

30 of 3

Page 33 of 33

October 14, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: DEVON VEGA 29 FEDERAL 1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/13/14 12:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/13/2014	Sampling Date:	10/13/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16737	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H403136-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTX	<0.300	0.300	10/13/2014	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	368	16.0	10/13/2014	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 84.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.3 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/13/2014	Sampling Date:	10/13/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16737	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H403136-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	272	16.0	10/13/2014	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 85.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/13/2014	Sampling Date:	10/13/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16737	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 3' (H403136-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	10/13/2014	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 81.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/13/2014	Sampling Date:	10/13/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16737	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 5' (H403136-04)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2014	ND	1.91	95.3	2.00	3.60		
Toluene*	<0.050	0.050	10/14/2014	ND	1.81	90.4	2.00	3.47		
Ethylbenzene*	<0.050	0.050	10/14/2014	ND	1.72	86.1	2.00	3.32		
Total Xylenes*	<0.150	0.150	10/14/2014	ND	5.17	86.1	6.00	3.57		
Total BTX	<0.300	0.300	10/14/2014	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	320	16.0	10/13/2014	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 83.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.4 % 52.1-176

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/13/2014	Sampling Date:	10/13/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	DEVON VEGA 29 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	16737	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 6' (H403136-05)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2014	ND	1.91	95.3	2.00	3.60		
Toluene*	<0.050	0.050	10/14/2014	ND	1.81	90.4	2.00	3.47		
Ethylbenzene*	<0.050	0.050	10/14/2014	ND	1.72	86.1	2.00	3.32		
Total Xylenes*	<0.150	0.150	10/14/2014	ND	5.17	86.1	6.00	3.57		
Total BTX	<0.300	0.300	10/14/2014	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	304	16.0	10/13/2014	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 81.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.5 % 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Page 8 of 8



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

November 20, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: VEGA 29-1

Enclosed are the results of analyses for samples received by the laboratory on 11/19/14 15:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS 1 @ 7' (H403561-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTEX	<0.300	0.300	11/20/2014	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	192	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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Analytical Results For:

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS 2 @ 5' (H403561-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	<16.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH WALL (H403561-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	256	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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HOBBS NM, 88241
Fax To: (575) 393-2981

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH WALL (H403561-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 133 % 52.1-176

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Fax To: (575) 393-2981

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST WALL (H403561-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	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
Chloride	192	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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

 Received: 11/19/2014
 Reported: 11/20/2014
 Project Name: VEGA 29-1
 Project Number: 17084
 Project Location: NOT GIVEN

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WEST WALL (H403561-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	80.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SW N (H403561-07)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	272	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SW E (H403561-08)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10		
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03		
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86		
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23		
Total BTEx	<0.300	0.300	11/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 128 % 52.1-176

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/13/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SW S (H403561-09)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/13/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SW W (H403561-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	48.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS 2 (H403561-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	32.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 11/19/2014
Reported: 11/20/2014
Project Name: VEGA 29-1
Project Number: 17084
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS 3 (H403561-12)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTX	<0.300	0.300	11/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	48.0	16.0	11/20/2014	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	11/20/2014	ND	192	96.0	200	1.02	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	198	98.8	200	0.794	

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Rusthi

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

BILL TO		Company Name: <u>Martinez (Steven)</u>
P.O. #: <u>17084</u>		
Project Manager:		
Address:		
City:	State:	Zip:
Phone #:	Fax #:	Attn: <u>Aparicio</u>
Project #:	Project Owner:	Address:
Project Name:	City:	State:
Project Location: <u>Nega 29-1</u>	Phone #:	Zip:
Sampler Name: <u>Queen cone - Eubad</u>	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME																							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :																											
H403561	B5.1@ 7' TL	X	1								X	11-12-14	12:05	X	X	X																				
	B5.2@ 5' TL	X	1								X	11-12-14	12:05	X	X	X																				
	NORTH WALL	X	1								X	11-11-14	12:00	X	X	X																				
	SOUTH WALL	X	1								X	11-11-14	12:05	X	X	X																				
	EAST WALL	X	1								X	11-11-14	12:10	X	X	X																				
	WEST WALL	X	1								X	11-11-14	12:15	X	X	X																				
	S.W.N	X	1								X	11-11-14	15:05	X	X	X																				
	S.W.E	X	1								X	11-11-14	15:00	X	X	X																				
	S.W.S.TL	X	1								X	11-13-14	9:25	X	X	X																				
	S.W.L.TL	X	1								X	11-13-14	9:30	X	X	X																				

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Relinquished By: <u>[Signature]</u>	Date: <u>11/9/14</u>	Received By: <u>[Signature]</u>	Date: <u>11/9/14</u>
Relinquished By: <u>[Signature]</u>	Date: <u>11/9/14</u>	Received By: <u>[Signature]</u>	Date: <u>11/9/14</u>

Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>UPS</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <u>[Signature]</u>
---	---	---------------------------------------

REMARKS:

E-mail Results To: Ngladden@diversifiedfsi.com
Rpons@diversifiedfsi.com

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



(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

51 202-2226
hs#



Initial Site Photos

10/04/2014



Excavation Photos

11/04/2014 – 11/11/2014



Final Photos

11/18/2014

GROUND WATER SEARCH

Devon Energy Vega 29 Federal Com 1H Battery

UL: B Sec: 29 T: 19S R: 31E

Groundwater Depth: 236 ft.

- = NM Office of the State Engineer
- = U.S. Geological Survey (unknown well)
- ✗ = Site Location

Date: 10/23/2014

By: Rebecca Pons

	18S 30E	18S 31E	● 65' Frizzell ● 430' VL Estate 18S 32E	
	19S 30E ● 90' Carpenter ● 115' Fred Pool Drilling	19S 31E ✗ 130' Phillips	345' ● 102' ● Phillips Petro. Co EXPL 19S 32E	
	Yates Petro. 20S 30E ● Amaco ● Pennzoil McVay Drilling	Perry & Bass 20S 31E ● Ballard	20S 32E	

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 Devon Energy	Contact Rudy Zuniga (Production Foreman)
Address PO Box 250 Artesia, NM 88211	Telephone No. (575) 390-5435
Facility Name Vega 29 Federal Com 1H Battery (closest well – Vega 29 Fed Com 3H)	Facility Type Oil and Gas Production

Surface Owner BLM	Mineral Owner BLM	API No. 30-015-41624 (3H)
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	29	19S	31E	147'	North Line	2470'	East Line	Eddy County

Latitude 32.63837 Longitude -103.89069

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35	Volume Recovered 20
Source of Release Failure to haul fluid (Arapahoe)	Date and Hour of Occurrence 10/04/2014 11am	Date and Hour of Discovery 10/04/2014 11am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Natalie Gladden (DFSI Environmental)	Date and Hour 10/06/2014 10am – BLM J. Robertson/10:02am NMOCD M. Bratcher	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Arapahoe Trucking failed to haul fluid causing the tanks to overflow. A vacuum truck was called out to recover standing fluid and was able to recover approximately 20bbls of produced water. DFSI completed the Environmental Assessment, mapped the site and surface samples.

Describe Area Affected and Cleanup Action Taken.*

A total of 13,656 sq. ft. of impacted surface was remediated as per NMOCD/BLM Guidelines to closure of this site

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:	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist:	
Printed Name: Stacie Singleton		
Title: Environmental Professional	Approval Date:	Expiration Date:
E-mail Address: Stacie.singleton@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Phone: (575) 513-2129		

* Attach Additional Sheets If Necessary