

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

RECEIVED

By JKeyes at 7:54 am, Apr 07, 2016

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

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company	XTO Energy, Inc	Contact	John Robinson
Address	500 W. Illinois, Suite 100, Midland, TX 79701	Telephone No.	575-441-5199
Facility Name	Miss Amigos Battery	Facility Type	Battery
Surface Owner	State	Mineral Owner	
		API No.	30-025-40590

LOCATION OF RELEASE

Unit Letter	Section 31	Township 23S	Range 33E	Feet from the	North/South Line	Feet from the	East/West Line	County LEA
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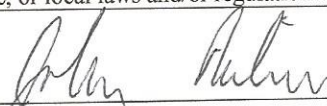

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	27 Barrels	Volume Recovered	25 Barrels
Source of Release	Tank	Date and Hour of Occurrence	4-2-14	Date and Hour of Discovery	4-2-14 8:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes X No <input type="checkbox"/> Not Required	If YES, To Whom?	Called Jamie Keyes on 4-6-16		
By Whom?	John Robinson	Date and Hour	4-6-16 10:00 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.*					
Pop off valve stuck open and ran over pop off tank. Had vacuum truck clean up all standing water and haul off.					
Describe Area Affected and Cleanup Action Taken.*					
All water stayed on battery pad. Will test soil and find depth of contamination and haul off all contaminated soil and replace with clean soil.					

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

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: John Robinson		
Title: Maintenance foreman	Approval Date: 04/07/2016	Expiration Date: 06/07/2016
E-mail Address: john_robinson@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4-7-14 Phone: 575-441-5199	Discrete site samples only. Delineate and remediate per NMOCD guidelines. Photos of remediation recommended.	1RP 4234

* Attach Additional Sheets If Necessary

nJXK1609828269
pJXK1609828378











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

April 29, 2016

MICHAEL PATTERSON

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: MISS AMIGOS/ESTANCIA SED BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 04/29/16 7:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.
MICHAEL PATTERSON
P. O. BOX 5966
HOBBS NM, 88241
Fax To: (575) 393-2981

Received:	04/29/2016	Sampling Date:	04/29/2016
Reported:	04/29/2016	Sampling Type:	Soil
Project Name:	MISS AMIGOS/ESTANCIA SED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 4 @ 1' (H600919-01)

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	04/29/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/29/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/29/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/29/2016	ND	5.37	89.4	6.00	1.05	
Total BTX	<0.300	0.300	04/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2016	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/29/2016	ND	224	112	200	8.70	

Surrogate: 1-Chlorooctane 72.3 % 35-147

Surrogate: 1-Chlorooctadecane 77.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2016	Sampling Date:	04/29/2016
Reported:	04/29/2016	Sampling Type:	Soil
Project Name:	MISS AMIGOS/ESTANCIA SED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 4 @ 2' (H600919-02)

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	04/29/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/29/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/29/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/29/2016	ND	5.37	89.4	6.00	1.05	
Total BTEx	<0.300	0.300	04/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/29/2016	ND	224	112	200	8.70	

Surrogate: 1-Chlorooctane 72.6 % 35-147

Surrogate: 1-Chlorooctadecane 77.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2016	Sampling Date:	04/29/2016
Reported:	04/29/2016	Sampling Type:	Soil
Project Name:	MISS AMIGOS/ESTANCIA SED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 4 @ 3' (H600919-03)

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	04/29/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/29/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/29/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/29/2016	ND	5.37	89.4	6.00	1.05	
Total BTX	<0.300	0.300	04/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/29/2016	ND	224	112	200	8.70	

Surrogate: 1-Chlorooctane 80.2 % 35-147

Surrogate: 1-Chlorooctadecane 84.4 % 28-171

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*=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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



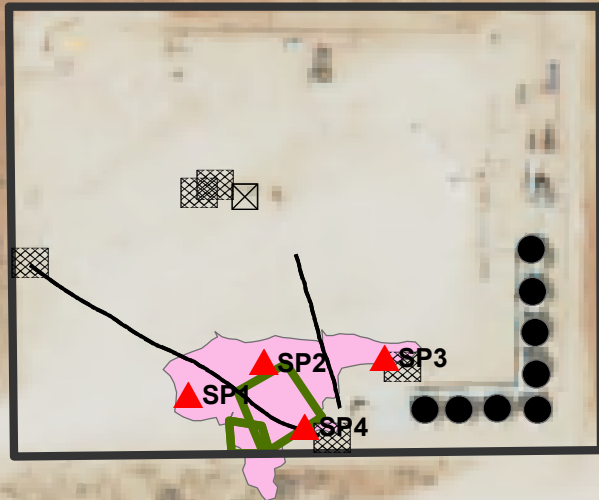
Page 6 of 6

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

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

Soil Delineation

SP1										SP3									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	139	145.8	ND	ND	73	ND	ND	ND	ND	SS	124	74	ND	ND	ND	ND	ND	ND	ND
1'	141	49.2								1'	118	4.5	68	ND	10	ND	ND	ND	ND
2'	110	57.3																	
3'	118	39.3																	
4'	116	18	ND	ND	ND	ND	ND	ND	ND										
SP2										SP4									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	204	163.3	ND	ND	11	ND	ND	ND	ND	SS	146	108	ND	ND	35	ND	ND	ND	ND
1'	181	40								1'	138	113	64	<10	<10	<0.05	<0.05	<0.05	<0.15
2'	111	89.3								2'	120	120	<16	<10	<10	<0.05	<0.05	<0.05	<0.15
3'	112	22.4								3'	141	257	64	<10	<10	<0.05	<0.05	<0.05	<0.15
4'	111	13.4	ND	ND	ND	ND	ND	ND	ND	4'	108	41							
										5'	114	18	ND	ND	39	ND	ND	ND	ND

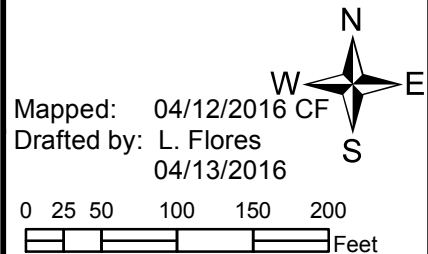


Legend

- ▲ Sample Points
- Electrical Box
- Pumpjacks
- Buried Line
- Pad
- Tanks
- Tank Containment
- Produced Water (7,983 sq ft)

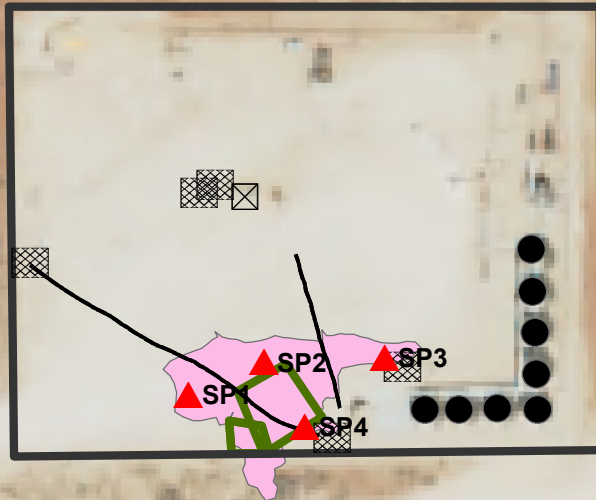


XTO Energy
Mis Amigos Estancia SED Battery 1
Unit Letter O, Sec. 31, T23S, R33E
Lea County, NM
API #: 30-025-40590
NMOCD Case #: 1R-4234



Soil Delineation

SP1										SP3									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	139	145.8	ND	ND	73	ND	ND	ND	ND	SS	124	74	ND	ND	ND	ND	ND	ND	ND
1'	141	49.2								1'	118	4.5							
2'	110	57.3																	
3'	118	39.3																	
4'	116	18																	
SP2										SP4									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	204	163.3	ND	ND	11	ND	ND	ND	ND	SS	146	108	ND	ND	35	ND	ND	ND	ND
1'	181	40								1'	138	113							
2'	111	89.3								2'	120	120							
3'	112	22.4								3'	141	257							
4'	111	13.4								4'	108	41							
										5'	114	18							

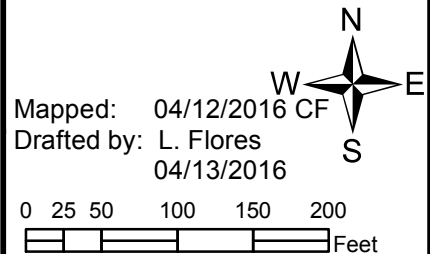


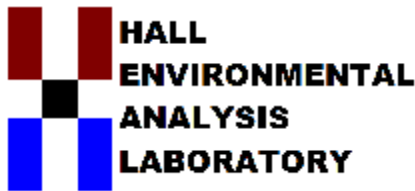
Legend

- ▲ Sample Points
- Electrical Box
- Pumpjacks
- Buried Line
- Pad
- Tanks
- Tank Containment
- Produced Water (7,983 sq ft)



XTO Energy
Mis Amigos Estancia SED Battery 1
Unit Letter O, Sec. 31, T23S, R33E
Lea County, NM
API #: 30-025-40590
NMOCD Case #: 1R-4234





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 18, 2016

John Robinson
Diversified Field Services, Inc
315 S. Leech St
Hobbs, NM 88240
TEL: (575) 964-8394
FAX

RE: XTO Mis Amigos/Estancia SED Battery #1

OrderNo.: 1604653

Dear John Robinson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/15/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604653**

Date Reported: **4/18/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 1 @ 4'

Project: XTO Mis Amigos/Estancia SED Battery

Collection Date: 4/13/2016 9:40:00 AM

Lab ID: 1604653-001

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/15/2016 11:01:36 AM
Surr: DNOP	81.2	70-130		%Rec	1	4/15/2016 11:01:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/15/2016 11:13:29 AM
Surr: BFB	94.5	80-120		%Rec	1	4/15/2016 11:13:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	4/15/2016 11:13:29 AM
Toluene	ND	0.035		mg/Kg	1	4/15/2016 11:13:29 AM
Ethylbenzene	ND	0.035		mg/Kg	1	4/15/2016 11:13:29 AM
Xylenes, Total	ND	0.070		mg/Kg	1	4/15/2016 11:13:29 AM
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	4/15/2016 11:13:29 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/15/2016 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604653**

Date Reported: **4/18/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 2 @ 4'

Project: XTO Mis Amigos/Estancia SED Battery

Collection Date: 4/13/2016 9:40:00 AM

Lab ID: 1604653-002

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/15/2016 11:23:05 AM
Surr: DNOP	72.4	70-130		%Rec	1	4/15/2016 11:23:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	4/15/2016 11:36:56 AM
Surr: BFB	93.3	80-120		%Rec	1	4/15/2016 11:36:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.013		mg/Kg	1	4/15/2016 11:36:56 AM
Toluene	ND	0.027		mg/Kg	1	4/15/2016 11:36:56 AM
Ethylbenzene	ND	0.027		mg/Kg	1	4/15/2016 11:36:56 AM
Xylenes, Total	ND	0.054		mg/Kg	1	4/15/2016 11:36:56 AM
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	4/15/2016 11:36:56 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/15/2016 12:13:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604653**

Date Reported: **4/18/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 3 @ 1'

Project: XTO Mis Amigos/Estancia SED Battery

Collection Date: 4/13/2016 11:10:00 AM

Lab ID: 1604653-003

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	4/15/2016 11:44:49 AM
Surr: DNOP	77.5	70-130		%Rec	1	4/15/2016 11:44:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/15/2016 12:00:25 PM
Surr: BFB	96.5	80-120		%Rec	1	4/15/2016 12:00:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	4/15/2016 12:00:25 PM
Toluene	ND	0.034		mg/Kg	1	4/15/2016 12:00:25 PM
Ethylbenzene	ND	0.034		mg/Kg	1	4/15/2016 12:00:25 PM
Xylenes, Total	ND	0.069		mg/Kg	1	4/15/2016 12:00:25 PM
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	4/15/2016 12:00:25 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	68	30		mg/Kg	20	4/15/2016 12:50:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604653**

Date Reported: **4/18/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 4 @ 5'

Project: XTO Mis Amigos/Estancia SED Battery

Collection Date: 4/13/2016 1:00:00 PM

Lab ID: 1604653-004

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	39	9.7		mg/Kg	1	4/15/2016 12:06:29 PM
Surr: DNOP	67.8	70-130	S	%Rec	1	4/15/2016 12:06:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/15/2016 12:23:56 PM
Surr: BFB	104	80-120		%Rec	1	4/15/2016 12:23:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/15/2016 12:23:56 PM
Toluene	ND	0.038		mg/Kg	1	4/15/2016 12:23:56 PM
Ethylbenzene	ND	0.038		mg/Kg	1	4/15/2016 12:23:56 PM
Xylenes, Total	ND	0.077		mg/Kg	1	4/15/2016 12:23:56 PM
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	4/15/2016 12:23:56 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/15/2016 1:02:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604653

18-Apr-16

Client: Diversified Field Services, Inc
Project: XTO Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24835		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 24835		RunNo: 33569					
Prep Date:	4/15/2016		Analysis Date: 4/15/2016		SeqNo: 1033517		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24835		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 24835		RunNo: 33569					
Prep Date:	4/15/2016		Analysis Date: 4/15/2016		SeqNo: 1033518		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604653

18-Apr-16

Client: Diversified Field Services, Inc

Project: XTO Mis Amigos/Estancia SED Battery #1

Sample ID	LCS-24822		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24822		RunNo: 33556					
Prep Date:	4/15/2016		Analysis Date: 4/15/2016		SeqNo: 1032484		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.9	65.8	136			
Surr: DNOP	3.8		5.000		75.5	70	130			

Sample ID	MB-24822		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24822		RunNo: 33556					
Prep Date:	4/15/2016		Analysis Date: 4/15/2016		SeqNo: 1032485		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.1		10.00		81.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604653

18-Apr-16

Client: Diversified Field Services, Inc

Project: XTO Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24804		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24804		RunNo: 33568					
Prep Date:	4/14/2016		Analysis Date: 4/15/2016		SeqNo: 1033188		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.0	80	120			

Sample ID	LCS-24804		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24804		RunNo: 33568					
Prep Date:	4/14/2016		Analysis Date: 4/15/2016		SeqNo: 1033189		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	80	120			
Surr: BFB	1000		1000		100	80	120			

Sample ID	MB-24803		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24803		RunNo: 33568					
Prep Date:	4/14/2016		Analysis Date: 4/15/2016		SeqNo: 1033203		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.2	80	120			

Sample ID	LCS-24803		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24803		RunNo: 33568					
Prep Date:	4/14/2016		Analysis Date: 4/15/2016		SeqNo: 1033204		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604653

18-Apr-16

Client: Diversified Field Services, Inc

Project: XTO Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24804		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24804		RunNo:	33568			
Prep Date:	4/14/2016		Analysis Date:	4/15/2016		SeqNo:	1033222	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID	LCS-24804		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24804		RunNo:	33568			
Prep Date:	4/14/2016		Analysis Date:	4/15/2016		SeqNo:	1033223	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	75.3	123			
Toluene	0.89	0.050	1.000	0	88.6	80	124			
Ethylbenzene	0.87	0.050	1.000	0	87.4	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	88.0	83.9	122			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			

Sample ID	MB-24803		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24803		RunNo:	33568			
Prep Date:	4/14/2016		Analysis Date:	4/15/2016		SeqNo:	1033238	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	80	120			

Sample ID	LCS-24803		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24803		RunNo:	33568			
Prep Date:	4/14/2016		Analysis Date:	4/15/2016		SeqNo:	1033239	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DIVERSIFIED FIELD SE

Work Order Number: 1604653

RcptNo: 1

Received by/date:

JA 04/15/16

Logged By: Anne Thorne

4/15/2016 9:25:00 AM

Anne Thorne

Completed By: Anne Thorne

4/15/2016

Anne Thorne

Reviewed By:

JA

04/15/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☐ No ☒
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

PER ST USE COLLECTION TIMES ON SAMPLE JARS/at 4/15/16

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			

Chain-of-Custody Record

Client: Quasified Env. Turn-Around Time: need results by 5pm 4/15

☐ Standard ☐ Rush

Project Name:

mailing Address: 206 W Snyder
Halls nva

Phone #: (575) 631-1661

mail or Fax#: (575) 631-1661

A/QC Package:

Standard ☐ Level 4 (Full Validation)

Accreditation

NELAP ☐ Other

EDD (Type)

Project Manager:

John Robinson

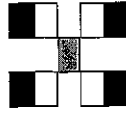
Sampler: Chris Flores

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.3

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
<u>4/15/16</u>	<u>0830</u>	<u>Soil</u>	<u>Sample Point 1 @ 4'</u>	<u>Meatballs</u>	<u>ice</u>	<u>160453</u>
<u>4/15/16</u>	<u>0940</u>	<u>Soil</u>	<u>Sample Point 2 @ 4'</u>	<u>4oz jar</u>	<u>ice</u>	<u>201</u>
<u>4/15/16</u>	<u>1300</u>	<u>Soil</u>	<u>Sample Point 3 @ 1'</u>	<u>ice</u>	<u>ice</u>	<u>202</u>
<u>4/15/16</u>	<u>1445</u>	<u>Soil</u>	<u>Sample Point 4 @ 5'</u>	<u>ice</u>	<u>ice</u>	<u>203</u>
<u>4/15/16</u>	<u>1630</u>	<u>Soil</u>	<u>Sample Point 5 @ 5'</u>	<u>ice</u>	<u>ice</u>	<u>204</u>

Relinquished by:	Relinquished by:	Received by:	Date
<u>Ch. Flores</u>	<u>Ch. Flores</u>	<u>Sph</u>	<u>4/15/16 0630</u>
Relinquished by:	Relinquished by:	Received by:	Date
		<u>Gov. Pelt</u>	<u>04/15/16 0925</u>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

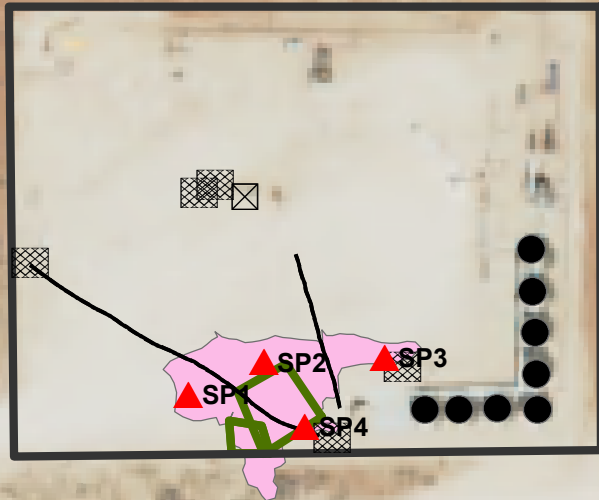
BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>

Remarks:

Email to: inquiries@diversifiedsi.com
mburton@mpatterson@cflores

Soil Delineation

SP1										SP3									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	139	145.8	ND	ND	73	ND	ND	ND	ND	SS	124	74	ND	ND	ND	ND	ND	ND	ND
1'	141	49.2								1'	118	4.5	68	ND	10	ND	ND	ND	ND
2'	110	57.3																	
3'	118	39.3																	
4'	116	18	ND	ND	ND	ND	ND	ND	ND										
SP2										SP4									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	204	163.3	ND	ND	11	ND	ND	ND	ND	SS	146	108	ND	ND	35	ND	ND	ND	ND
1'	181	40								1'	138	113							
2'	111	89.3								2'	120	120							
3'	112	22.4								3'	141	257							
4'	111	13.4	ND	ND	ND	ND	ND	ND	ND	4'	108	41							
										5'	114	18	ND	ND	39	ND	ND	ND	ND

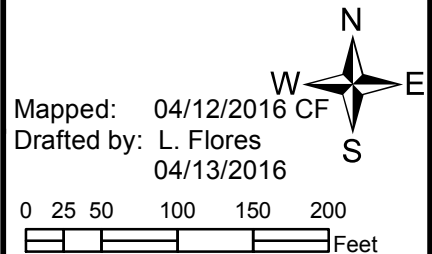


Legend

- ▲ Sample Points
- Electrical Box
- Pumpjacks
- Buried Line
- Pad
- Tanks
- Tank Containment
- Produced Water (7,983 sq ft)



XTO Energy
Mis Amigos Estancia SED Battery 1
Unit Letter O, Sec. 31, T23S, R33E
Lea County, NM
API #: 30-025-40590
NMOCD Case #: 1R-4234





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 26, 2016

Michael Burton
Diversified Field Services, Inc
315 S. Leech St
Hobbs, NM 88240
TEL: (575) 964-8394
FAX

RE: Mis Amigos/Estancia SED Battery #1

OrderNo.: 1604917

Dear Michael Burton:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/21/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604917**

Date Reported: **4/26/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 1 @6"

Project: Mis Amigos/Estancia SED Battery #1

Collection Date: 4/19/2016 6:00:00 AM

Lab ID: 1604917-001

Matrix: SOIL

Received Date: 4/21/2016 9:17:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	73	9.7		mg/Kg	1	4/21/2016 1:25:15 PM
Surr: DNOP	74.4	70-130		%Rec	1	4/21/2016 1:25:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2016 9:51:10 AM
Surr: BFB	96.6	80-120		%Rec	1	4/22/2016 9:51:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/22/2016 9:51:10 AM
Toluene	ND	0.048		mg/Kg	1	4/22/2016 9:51:10 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2016 9:51:10 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/22/2016 9:51:10 AM
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	4/22/2016 9:51:10 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/21/2016 8:29:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604917**

Date Reported: **4/26/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 2 @6"

Project: Mis Amigos/Estancia SED Battery #1

Collection Date: 4/19/2016 6:20:00 AM

Lab ID: 1604917-002

Matrix: SOIL

Received Date: 4/21/2016 9:17:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	4/21/2016 1:46:54 PM
Surr: DNOP	72.4	70-130		%Rec	1	4/21/2016 1:46:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/22/2016 10:14:42 AM
Surr: BFB	93.8	80-120		%Rec	1	4/22/2016 10:14:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/22/2016 10:14:42 AM
Toluene	ND	0.046		mg/Kg	1	4/22/2016 10:14:42 AM
Ethylbenzene	ND	0.046		mg/Kg	1	4/22/2016 10:14:42 AM
Xylenes, Total	ND	0.092		mg/Kg	1	4/22/2016 10:14:42 AM
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	4/22/2016 10:14:42 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/21/2016 8:42:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604917**

Date Reported: **4/26/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 3 @6"

Project: Mis Amigos/Estancia SED Battery #1

Collection Date: 4/19/2016 6:40:00 AM

Lab ID: 1604917-003

Matrix: SOIL

Received Date: 4/21/2016 9:17:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/21/2016 2:08:36 PM
Surr: DNOP	73.1	70-130		%Rec	1	4/21/2016 2:08:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/22/2016 10:38:11 AM
Surr: BFB	94.0	80-120		%Rec	1	4/22/2016 10:38:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/22/2016 10:38:11 AM
Toluene	ND	0.050		mg/Kg	1	4/22/2016 10:38:11 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/22/2016 10:38:11 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/22/2016 10:38:11 AM
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	4/22/2016 10:38:11 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/21/2016 8:54:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1604917**

Date Reported: **4/26/2016**

CLIENT: Diversified Field Services, Inc

Client Sample ID: Sample Point 4 @6"

Project: Mis Amigos/Estancia SED Battery #1

Collection Date: 4/19/2016 7:00:00 AM

Lab ID: 1604917-004

Matrix: SOIL

Received Date: 4/21/2016 9:17:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	35	9.4		mg/Kg	1	4/21/2016 6:31:37 PM
Surr: DNOP	82.7	70-130		%Rec	1	4/21/2016 6:31:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/22/2016 11:01:41 AM
Surr: BFB	93.3	80-120		%Rec	1	4/22/2016 11:01:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/22/2016 11:01:41 AM
Toluene	ND	0.046		mg/Kg	1	4/22/2016 11:01:41 AM
Ethylbenzene	ND	0.046		mg/Kg	1	4/22/2016 11:01:41 AM
Xylenes, Total	ND	0.092		mg/Kg	1	4/22/2016 11:01:41 AM
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	4/22/2016 11:01:41 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/21/2016 9:07:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604917

26-Apr-16

Client: Diversified Field Services, Inc
Project: Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24950		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 24950		RunNo: 33718					
Prep Date:	4/21/2016		Analysis Date: 4/21/2016		SeqNo: 1038629		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24950		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 24950		RunNo: 33718					
Prep Date:	4/21/2016		Analysis Date: 4/21/2016		SeqNo: 1038630		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604917

26-Apr-16

Client: Diversified Field Services, Inc
Project: Mis Amigos/Estancia SED Battery #1

Sample ID	LCS-24924		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24924		RunNo: 33681					
Prep Date:	4/21/2016		Analysis Date: 4/21/2016		SeqNo: 1037498		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	65.8	136			
Surr: DNOP	3.8		5.000		76.7	70	130			

Sample ID	MB-24924		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24924		RunNo: 33681					
Prep Date:	4/21/2016		Analysis Date: 4/21/2016		SeqNo: 1037499		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		82.7	70	130			

Sample ID	LCS-24875		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24875		RunNo: 33682					
Prep Date:	4/19/2016		Analysis Date: 4/21/2016		SeqNo: 1037889		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID	MB-24875		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24875		RunNo: 33682					
Prep Date:	4/19/2016		Analysis Date: 4/21/2016		SeqNo: 1037891		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		82.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604917

26-Apr-16

Client: Diversified Field Services, Inc

Project: Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24930		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 24930		RunNo: 33721					
Prep Date:	4/21/2016		Analysis Date: 4/22/2016		SeqNo: 1038988		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	80	120			

Sample ID	LCS-24930		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24930		RunNo: 33721					
Prep Date:	4/21/2016		Analysis Date: 4/22/2016		SeqNo: 1038989		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	80	120			
Surr: BFB	1000		1000		103	80	120			

Sample ID	1604917-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	Sample Point 2 @6"		Batch ID: 24930		RunNo: 33721					
Prep Date:	4/21/2016		Analysis Date: 4/22/2016		SeqNo: 1038990		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.61	0	105	59.3	143			
Surr: BFB	1000		984.3		104	80	120			

Sample ID	1604917-002AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	Sample Point 2 @6"		Batch ID:	24930		RunNo:	33721				
Prep Date:	4/21/2016		Analysis Date:	4/22/2016		SeqNo:	1038991		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	4.8	24.06	0	99.4	59.3	143	7.53	20		
Surr: BFB	1000		962.5		104	80	120	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604917

26-Apr-16

Client: Diversified Field Services, Inc

Project: Mis Amigos/Estancia SED Battery #1

Sample ID	MB-24930		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24930		RunNo:	33721			
Prep Date:	4/21/2016		Analysis Date:	4/22/2016		SeqNo:	1039000		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID	LCS-24930		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24930		RunNo:	33721			
Prep Date:	4/21/2016		Analysis Date:	4/22/2016		SeqNo:	1039001		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	75.3	123			
Toluene	1.0	0.050	1.000	0	101	80	124			
Ethylbenzene	0.96	0.050	1.000	0	95.5	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	94.3	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	1604917-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Sample Point 1 @6"		Batch ID:	24930		RunNo:	33721			
Prep Date:	4/21/2016		Analysis Date:	4/22/2016		SeqNo:	1039002		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9407	0	116	71.5	122			
Toluene	1.0	0.047	0.9407	0	109	71.2	123			
Ethylbenzene	0.98	0.047	0.9407	0	104	75.2	130			
Xylenes, Total	2.9	0.094	2.822	0	103	72.4	131			
Surr: 4-Bromofluorobenzene	0.98		0.9407		104	80	120			

Sample ID	1604917-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Sample Point 1 @6"		Batch ID:	24930		RunNo:	33721			
Prep Date:	4/21/2016		Analysis Date:	4/22/2016		SeqNo:	1039003		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9681	0	92.1	71.5	122	20.5	20	R
Toluene	0.95	0.048	0.9681	0	97.9	71.2	123	8.25	20	
Ethylbenzene	0.97	0.048	0.9681	0	101	75.2	130	0.261	20	
Xylenes, Total	2.9	0.097	2.904	0	99.9	72.4	131	0.110	20	
Surr: 4-Bromofluorobenzene	1.0		0.9681		104	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DIVERSIFIED FIELD SE

Work Order Number: 1604917

RcptNo: 1

Received by/date:

JA 04/21/16

Logged By: Ashley Gallegos

4/21/2016 9:17:00 AM

AG

Completed By: Ashley Gallegos

4/21/2016 9:28:49 AM

AG

Reviewed By:

TO 04/21/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

