



SOUTHERN UTE INDIAN TRIBE

SAFETY & ENVIRONMENTAL
COMPLIANCE MANAGEMENT GROUP

APPROVED

By Olivia Yu at 1:39 pm, Mar 09, 2018

January 16, 2018

Ms. Olivia Yu
Environmental Specialist
New Mexico Oil Conservation Division, District 1
Olivia.yu@state.nm.us

NMOCD grants closure to 1RP-4671.

Subject: Frontier Field Services, LLC
Closure Request for Rhombus Union State Com 1
1RP-4671

Dear Ms. Yu,

Frontier Field Services, LLC (Frontier), a wholly-owned subsidiary of the Southern Ute Indian Tribe, is requesting NMOCD closure of the release that was discovered on April 2, 2017 at the Rhombus State Com 1.

Additional excavation and sampling was conducted during October 2017 in accordance with the plan approved by NMOCD and SLO on September 22 and October 12, 2017, respectively. Following confirmation that additional samples were below NMOCD cleanup levels, the excavation was lined with a 20 mil liner and backfilled with clean material. Figures 1, 2 and 3 show the site location, sample locations and excavation depths as requested in your December 1, 2017 email.

A summary of sample results is provided in Attachment A. Analytical laboratory reports are provided in Attachment B. Photos showing the final remedial actions are included in Attachment C.

Should you have any questions regarding this Closure Request, please contact me at (970) 764-6484.

Respectfully Submitted,

Graham Stahnke, PE
Sr. Environmental Compliance Specialist
Southern Ute Growth Fund

cc: Harley Everhart, Frontier Field Services, LLC
Andy Young, Regulatory Compliance Manager, SUGF
Amber Groves, SLO

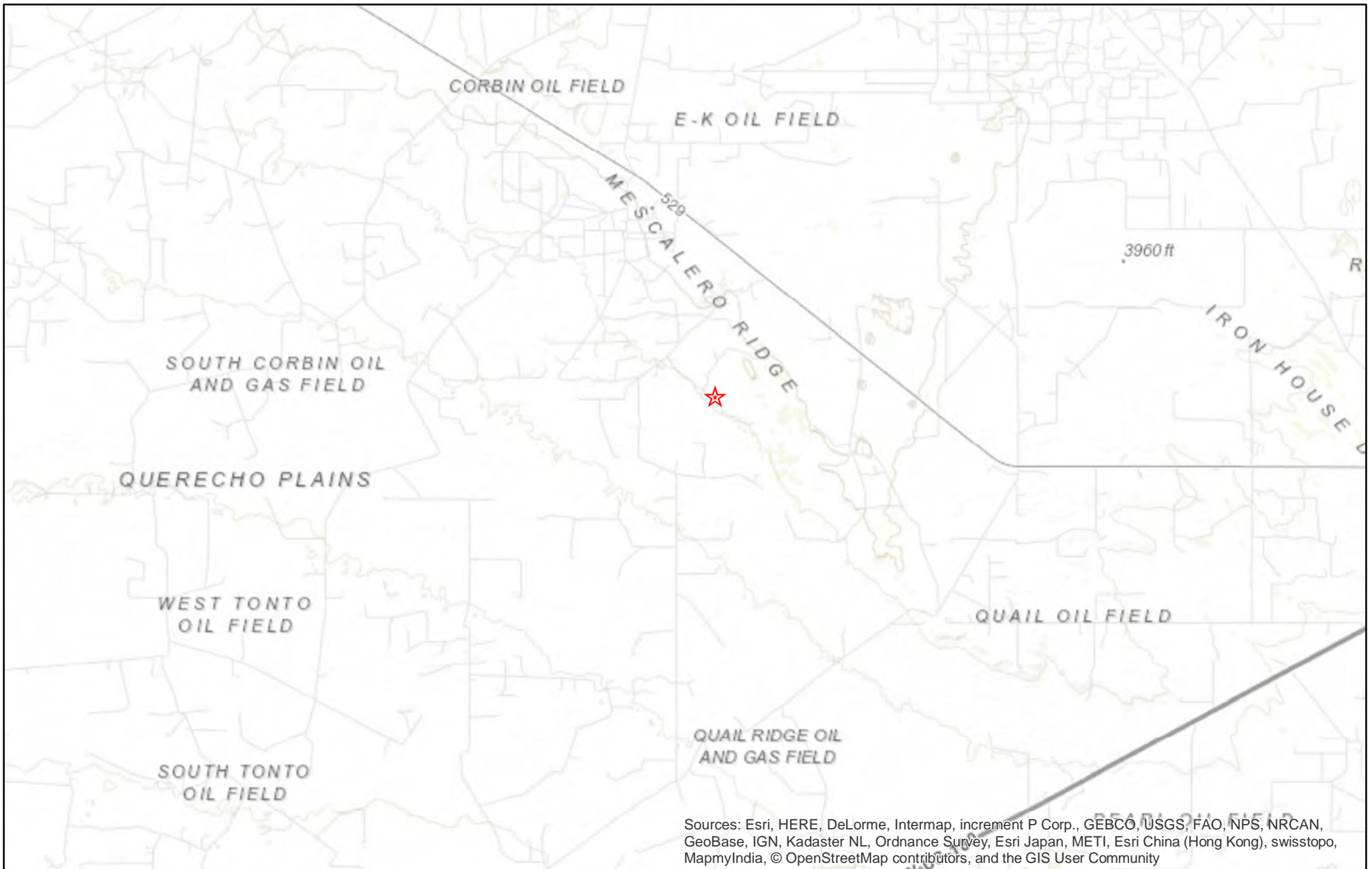
Figures

Attachment A – Sampling Results

Attachment B – Laboratory Analytical Reports

Attachment C – Photo Log

Figures



Date Saved: 12/27/2017 1:59:35 PM
Author: arohde

Figure 1
Site Location Map
Rhombus Union State Com 1
UL D 18S 34E

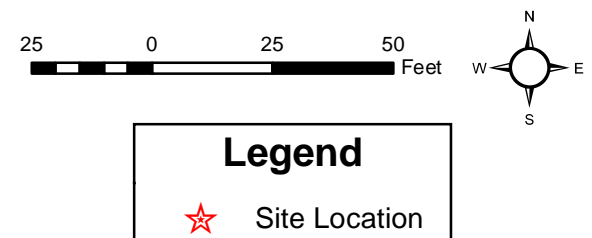
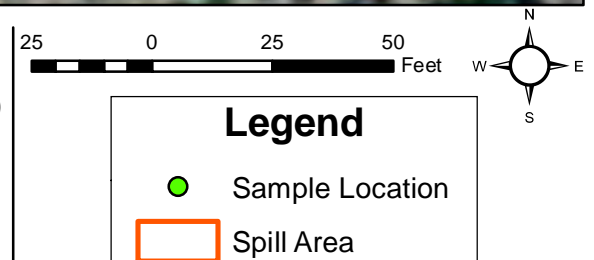




Figure 2
Excavation and Sample Locations Map
Rhombus Union State Com 1
UL D 18S 34E



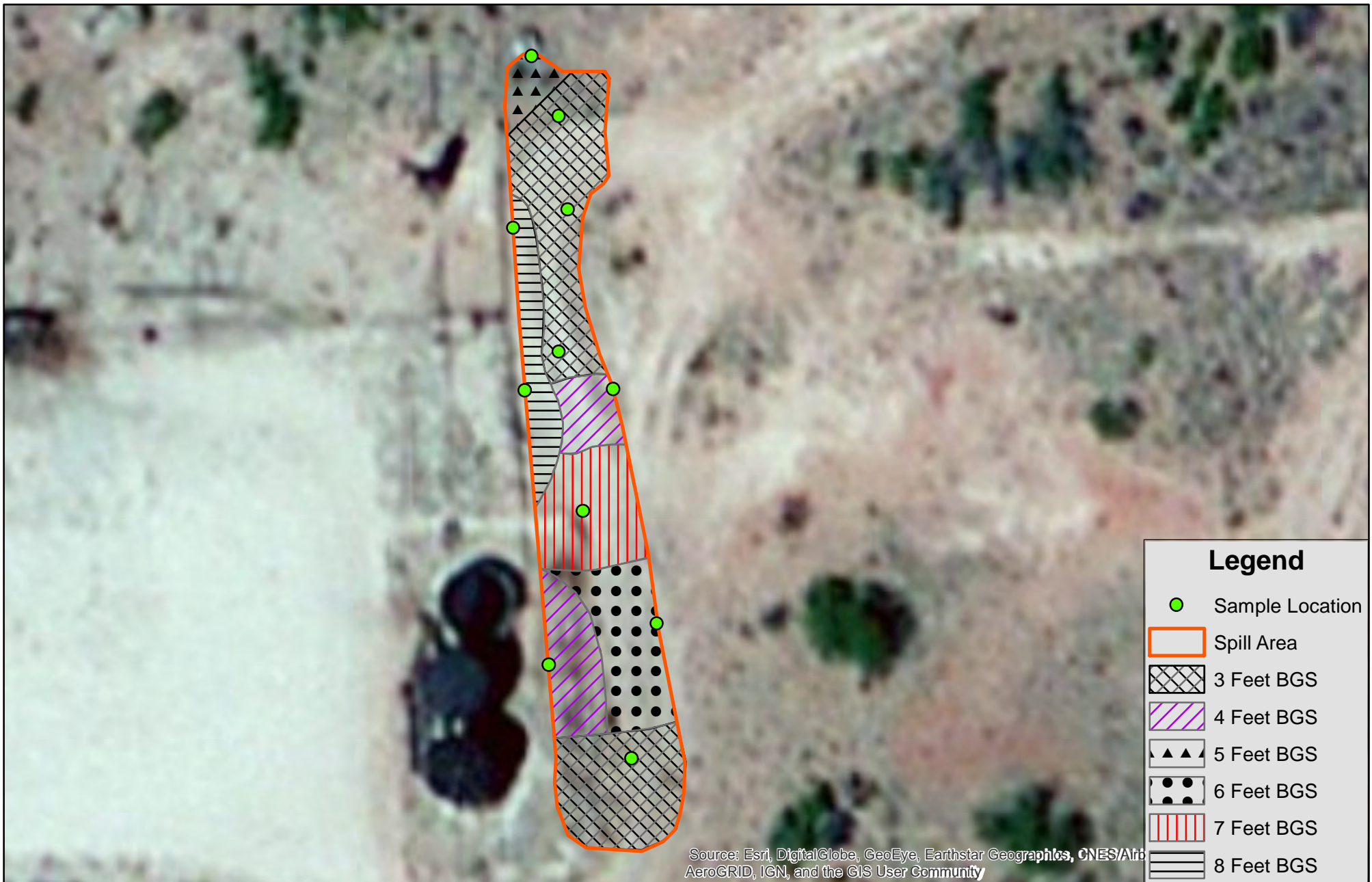


Figure 3
Detailed Excavation Depth Map
Rhombus Union State Com 1
UL D 18S 34E

Attachment A – Sampling Results

Aka Energy Group
1RP-4671 / Rhombus Union State Com #1
TPH Concentration Levels Soil Samples

Sample ID Description	Sample # 4	Sample # 7	Sample # 8	Sample # 9	Sample # X								Units	NMOCD Cleanup Levels
Sample Depth (feet bgs)	8'	8'	7'	6'	7'									
Date	10/10/2017	10/10/2017	10/10/2017	10/10/2017	10/10/2017									
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
EXT DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD

Amended Remediation Plan

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

Acronyms:

NMOCD = New Mexico Oil Conservation Division
DRO = Diesel Range Organics (C6 - C10)
GRO = Gasoline Range Organics (>C10 - C28)
EXT DRO = Diesel Range Organics (>C28-C36)
TBD = To Be Determined

Aka Energy Group
1RP-4671 / Rhombus Union State Com #1
Auger 5' Chloride Soil Samples

Sample ID Description	Sample # 1	Sample # 5	Sample # 10										Units	NMOCD Cleanup Levels
Sample Depth (feet bgs)	12'	10'	9'											
Date	10/10/2017	10/10/2017	10/10/2017											
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	128	128	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
DRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
EXT DRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD

Amended Remediation Plan

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TBD = To Be Determined

Aka Energy Group
1RP-4671 / Rhombus Union State Com #1
East Of Leak

Sample ID Description	East Of Leak													Units	NMOCDCleanup Levels
Sample Depth (feet bgs)	Surface														
Date	10/10/2017														
Benzene	<0.050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	<0.050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	<0.050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	<0.150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	<0.300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	32.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
DRO	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
EXT DRO	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD

Amended Remediation Work Plan

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

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NMOCDC = New Mexico Oil Conservation Division
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GRO = Gasoline Range Organics (>C10 - C28)
EXT DRO = Diesel Range Organics (>C28-C36)
TBD = To Be Determined

Aka Energy Group
1RP-4671 / Rhombus Union State Com #1
TPH Concentration Levels (2FT Auger Hole) Soil Samples

Sample ID Description	Sample # 4	Sample # 7	Sample # 8	Sample # 9	Sample # X									Units	NMOCD Cleanup Levels
Sample Depth (feet bgs)	10'	10'	9'	8'	9'										
Date	10/12/2017	10/12/2017	10/12/2017	10/12/2017	10/12/2017										
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
EXT DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD

Amended Remediation Work Plan

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

Acronyms:

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DRO = Diesel Range Organics (C6 - C10)
GRO = Gasoline Range Organics (>C10 - C28)
EXT DRO = Diesel Range Organics (>C28-C36)
TBD = To Be Determined

Attachment B – Laboratory Analytical Reports

October 11, 2017

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/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:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #4 - TPH CONCENTRATION LEVELS (H702723-01)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					

Surrogate: 1-Chlorooctane 77.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.1 % 34.7-157

Sample ID: #7 - TPH CONCENTRATION LEVELS (H702723-02)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					

Surrogate: 1-Chlorooctane 70.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 67.7 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #8 - TPH CONCENTRATION LEVELS (H702723-03)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	63.1 %	28.3-164							
Surrogate: 1-Chlorooctadecane	59.5 %	34.7-157							

Sample ID: #9 - TPH CONCENTRATION LEVELS (H702723-04)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	66.4 %	28.3-164							
Surrogate: 1-Chlorooctadecane	61.4 %	34.7-157							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #X - TPH CONCENTRATION LEVELS (H702723-05)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	55.6 %	28.3-164							
Surrogate: 1-Chlorooctadecane	55.9 %	34.7-157							

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* = Accredited Analyte

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Caley 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

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>Frontier Field Services (Alta Energy)</i> Project Manager: Address: <i>1001 Canoco Rd.</i> City: <i>Mojave</i> State: <i>NM</i> Zip: <i>88260</i> Phone #: <i>575 5134922</i> Fax #: Project #: Project Owner: Project Name: <i>TPH Concentration</i> Project Location: <i>Rhombus Remediation Project</i> Sampler Name: <i>Healy Everhart</i>				BILL TO P.O. #: Company: Attn: Address: <i>35</i> City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST											
FOR LAB USE ONLY Lab I.D. <i>HTD2723</i> Sample I.D.		(GRAB OR C/COMP) # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV. ACID/BASE ICE / COOL OTHER	SAMPLING DATE TIME	<i>TPH Concentrations</i>													
1 <i>#4 - TPH Concentration Levels</i> 2 <i>#7 - " "</i> 3 <i>#8 - " "</i> 4 <i>#9 - " "</i> 5 <i>#X - " "</i>		✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	10-10 11:25 10-10 11:11 10-10 11:38 10-10 12:27 10-10 11:40	✓ ✓ ✓ ✓ ✓													

PLEASE NOTE: Liability and Damages: Cardinal's liability and its client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i> Relinquished By: Delivered By: (Circle One) <i>#75</i> Sampler - UPS - Bus - Other:	Date: <i>10-10-13</i> Time: <i>7:26</i> Date: Time:	Received By: <i>Jodi Henson</i> Received By: Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: <i>Email Results</i> <i>heverhart@altaenergy.com</i> <i>Rush</i>
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October 11, 2017

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: RHOMBUS

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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:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	AUGURED SAMPLES (CHLORIDES)	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #1 (AUGARED CHLORIDE SAMPLE) (H702724-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/11/2017	ND	432	108	400	3.64	

Sample ID: #5 (AUGARED CHLORIDE SAMPLE) (H702724-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/11/2017	ND	432	108	400	3.64	

Sample ID: #10 (AUGARED CHLORIDE SAMPLE) (H702724-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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

Company Name: Frontier Field Services (Aka Energy) Project Manager: Address: 1001 Conoco Rd. City: Moberg State: NM Zip: 88266 Phone #: 575 513 8522 Fax #: Project #: Project Owner: Project Name: Augered Samples (Chlorides) Project Location: Rhombus Remediation Sampler Name: Harley Everett				BILL TO P.O. #: Company: Attn: Address: open City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST														
FOR LAB USE ONLY Lab I.D. 4 H702725		Sample I.D. 1 #1 (Augered Chloride Sample) 2 #5 (" " " ") 3 #10 (" " " ")		(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	MATRIX ACID/BASE ICE / COOL OTHER	PRESERV. 2017	SAMPLING DATE TIME	Chlorides											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 10-18-17 Time: 9:26 Relinquished By: [Signature]	Received By: Jodi Benson Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Email Results heverhart@akaenergy.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #75 2.62 / 2.85		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature] Initials

October 12, 2017

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/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:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received: 10/10/2017
Reported: 10/12/2017
Project Name: RHOMBUS
Project Number: E. OF THE RELEASE LOCATION
Project Location: NONE GIVEN

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST OF LEAK LOCATION (H702725-01)

BTX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTX	<0.300	0.300	10/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	3.64	

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					

Surrogate: 1-Chlorooctane 77.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.1 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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

Company Name: Frontier Field Service (Aka Energy) Project Manager: Address: 1001 Cenoco Rd City: Midland State: NM Zip: 88280 Phone #: 575 5154982 Fax #: Project #: Project Owner: Project Name: East of Yn Release Location Project Location: Rhombus Remediation Project Sampler Name: Harley Emswirth				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST													
FOR LAB USE ONLY Lab I.D. H702726		Sample I.D. East of Link location		(GIRAB OR (C)OMP # CONTAINERS ✓	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ✓	PRESERV. ACID/BASE ICE COOL OTHER ✓	SAMPLING DATE 2017 10-10 TIME 10:00	TPH ✓	BTEX ✓	Chlorides ✓	Extended ✓								

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]	Date: 10-10-17 Time: 1:26	Received By: Jodi Benson	Date: 10-10-17 Time: 1:26	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Email Results heaverh@akaenergy.com
Relinquished By: [Signature]	Date: 10-10-17 Time: 1:26	Received By: Jodi Benson	Date: 10-10-17 Time: 1:26	
Delivered By: (Circle One) #75 Sampler - UPS - Bus - Other: 2.60 / 2.85		Sample Condition Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY [Signature]

October 18, 2017

HARLEY EVERHART

FRONTIER FIELD SERVICES

4200 SKELLY DRIVE, SUITE 700

TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #4 - TPH CONCENTRATION AUGER HOLES (H702761-01)

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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	74.8 %	28.3-164							
<i>Surrogate: 1-Chlorooctadecane</i>									
	76.1 %	34.7-157							

Sample ID: #7 - TPH CONCENTRATION AUGER HOLES (H702761-02)

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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	70.1 %	28.3-164							
<i>Surrogate: 1-Chlorooctadecane</i>									
	65.9 %	34.7-157							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 FRONTIER FIELD SERVICES
 HARLEY EVERHART
 4200 SKELLY DRIVE, SUITE 700
 TULSA OK, 74135
 Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #8 - TPH CONCENTRATION AUGER HOLES (H702761-03)

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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	68.7 %	28.3-164							
Surrogate: 1-Chlorooctadecane	70.0 %	34.7-157							

Sample ID: #9 - TPH CONCENTRATION AUGER HOLES (H702761-04)

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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	63.6 %	28.3-164							
Surrogate: 1-Chlorooctadecane	62.8 %	34.7-157							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

FRONTIER FIELD SERVICES
HARLEY EVERHART
4200 SKELLY DRIVE, SUITE 700
TULSA OK, 74135
Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #10 - TPH CONCENTRATION AUGER HOLES (H702761-05)

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	10/16/2017	ND	192	96.2	200	3.71	
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND					
<hr/>									
Surrogate: 1-Chlorooctane	68.3 %	28.3-164							
Surrogate: 1-Chlorooctadecane	74.4 %	34.7-157							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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

Company Name: <i>Frontier Field Services (Aka Energy)</i> Project Manager: Address: <i>1001 Comasco Rd.</i> City: <i>McGuire</i> State: <i>NM</i> Zip: <i>88260</i> Phone #: <i>575 513 4922</i> Fax #: Project #: Project Owner: Project Name: <i>TPH Concentration 2' Huger Lakes</i> Project Location: <i>Rhombos Remediation Project</i> Sampler Name: <i>Harby Euerhart</i>				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
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	2017 DATE	TIME													
<i>H702761</i>																											
<i>1</i>	<i>#4 - TPH Concentration Huger Lakes</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>10-12</i>	<i>7:45</i>	<i>✓</i>												
<i>2</i>	<i>#5 - " " "</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>10-12</i>	<i>7:50</i>	<i>✓</i>												
<i>3</i>	<i>#8 - " " "</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>↓</i>	<i>8:00</i>	<i>✓</i>												
<i>4</i>	<i>#9 - " " "</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>↓</i>	<i>8:06</i>	<i>✓</i>												
<i>5</i>	<i>#10 - " " "</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>10-12</i>	<i>8:17</i>	<i>✓</i>												
															<i>Total TPH</i>												

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client to the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use or loss of profits incurred by client. Its subcontractors, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i> Relinquished By: Delivered By: (Circle One) <i>2.5%</i> Sampler - UPS - Bus - Other: <i>Corrected 2.75%</i>	Date: <i>10-12-17</i> Time: <i>1:00</i> Date: Time:	Received By: <i>[Signature]</i> Received By: Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <i>10-#15</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: <i>Email Results</i> <i>heuerhart@akaenergy.com</i>
--	--	--	---

Attachment C – Photo Log







