Page 6

Oil Conservation Division

Incident ID	
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### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<b>Closure Report Attachment Checklist:</b> Each of the following ite	ems must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remu human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the imported surface area to the com- accordance with 19.15.29.11 NMAC including notification to the OP Printed Name:	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in	
OCD Only		
Received by: Chad Hensley	Date: 01/14/2022	
	of liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible r regulations.	
Closure Approved by:	Date: 01/14/2022	
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced	

#### **Oilfield Water Logistics SWD Operating, LLC (OWL)**

#### Harrier Surface Line Produced Water Release

Unit Letter L2, L3, L4, Section 7, Unit Letter L1, Section 18, Township 26S, RANGE 33E

Lea County, NM

Incident Number- NRM2028334152

September 17, 2021

Prepared by

**Michael Alves** 

Alves Oilfield Solutions, LLC.

2215 West Bender

Hobbs, NM 88240

michaelalves@alvesoilfieldsolutions.org

(575) 631-4310



TO: Mike Bratcher Incident Supervisor Environmental Bureau EMNRD - Oil Conservation Division 811S. First St. Artesia. NM 88210

#### INTRODUCTION

Alves Oilfield Solutions, LLC. Was retained by BTA Oil Producers and Oilfield Water Logistics SWD Operating, LLC to delineate and remediate the site detailed herein. KJE Environmental Mgt. INC and RXSoil were also contracted to assist in the remediation of this site due to the complexity of managing three different releases. Alves Oilfield was the excavator for both companies and KJE along with RXSoil acted more as consultants on this project.

I'm writing this report as a summary to the remediation activities that took place on this release site and to clarify any miscommunication, if any was taken. This report will be able to give an informed and logical decision for backfill and any more requirements for backfill approval and closure.

#### **GROUNDWATER FINDINGS**

Initially when the groundwater search was completed by Alves Oilfield Solutions, KJE and RXSoil the only water found was 1.9 miles away and water depth was at 280'. Since groundwater results were too far away to determine groundwater levels for these releases under the rules of 19.15.11(A)(2), BTA decided to drill three wells which were left open for 72 hours to allow for reading the static water level. These readings determined groundwater to be at 81.4 feet which was the shallowest of the 3 wells. RXSoil requested the NMOCD asked for release rules fall under the 51'-100' release rule criteria.

#### **RELEASE BACKGROUND**

To simplify the complexity of this remediation the following with be a chronological point of the history of this site and what's been done. I wanted to simplify this since NMOCD, and BLM are all aware now there are multiple releases associated with this site. Below are bullet points of the release history along with remediation activities that have taken place on site.

- 5/18/2020: 1<sup>st</sup> BTA release with 276 BBL of produced water spilled & 1 BBL of crude oil with 0 BBL of any fluid recovered. The site was mapped, and the initial site assessment was completed.
- 7/13/2020: 2<sup>nd</sup> BTA release with an undetermined amount of fluid released. At the time BTA personnel in charge of reporting was out of state on another job and when notified the information was mixed up with the original release from May. The site was mapped, and the site assessment was completed.

- 10/4/2020: Oilfield Water Logistics, LLC (OWL) had a release of reported 4,800 BBL of produced water with 60 BBL recovered. The site was mapped, and a site assessment was completed. This release migrated over both of BTA's releases and some paths of its own.
- 1/5/2021: KJE (environmental consultants for OWL) submitted a workplan to NMOCD. It
  was sent to Christina Eads.
- 3/18/2021: Alves Oilfield Solutions (AOS) submitted a workplan to Shelly Tucker with the Bureau of Land Management after realizing the releases were on a BLM right of way
- 4/15/2021: BLM authorizes BTA to combine both releases into 1 remediation project due to the miscommunication of the 2<sup>nd</sup> release.
- 4/18/21: BLM approves AOS workplan. BLM imposes conditions of approval which covered delineation of release, and requirements prior to backfill.
- 5/6/2021: BTA & OWL agreed to combine resources and both companies take a portion of remediation on shared release areas. Divided as 2' to BTA and 2' to OWL (or ft by ft in any deep spots or horizontal excavation)
- 6/1/2021: Remediation began on all 3 releases. The release area was excavated in a 20'x20'x4' grid pattern according to KJE workplan. When sidewalls were being taken field screens showed elevated chloride samples every sample to the south which made sense since the release followed an elevation drop that ran to the south. BTA soil was stockpiled on 6ml plastic while waiting for approval on RXSoil treatment. OWL's soil was taken to their disposal, Northern Delaware Basin Landfill on NM128, which is an approved NM landfill. All manifests were included in the final closure report. Clean imported soil was brought back and stockpiled for backfill.
- 6/15/2021: BLM visited site and while looking at our field samples informed OWL that the 20'x20'x4' was not going to work and the trench need to be a trench and not squares. From this date on, the excavation was one complete trench down the ROW and sidewalls were taken every 20' on the east and west side. If a side wall came back higher than regulatory limits, the sidewall, in 20' sections, was taken back foot by foot until a clean sample was obtained. This sample was then confirmed by going 1 additional foot. Then this sample was taken to a lab for confirmation. These results will be in the final closure report.
- The area of SB 11,12,13 was excavated to 6' where contamination could be completely removed.
- 7/15/2021-8/15/21: Heavy rain took place on a few different occasions. The rain caused massive flooding and erosion. The excavation doubled in size due to erosion and flooding. The clean imported soil that was stockpiled was washed down ROW or went into the trench and washed away. The lease road was washed out in two different spots which caused an issue with being able to get oil trucks or any vehicles in or out. The roads were fixed within a few days of flooding.

- 9/2/2021: BLM came out at the request of AOS to evaluate the situation and hopefully give backfill approval. When BLM saw the excavation and the ergonomics of the site, BLM determined it was a safety issue but saw that all requirements were accomplished. BLM gave verbal approval and said to backfill as soon as possible
- 9/7/2021: BLM gave written approval to backfill and to remove any African Rue. All conditions of approval still were in effect.
- 9/13/2021: A 20ml liner was set in SB 8,9,10,16 & 17. The liner was bigger than normally anticipated. Due to the erosion, the liner had to be made bigger to properly set and seat it. Having the liner bigger though will ensure better protection from water migrating into this area.
- 9/16/2021: Work was halted by NMOCD due to the confusion of multiple reports, approvals and clerical issues by reporting parties.

#### **CONCLUSION AND REQUEST**

On behalf of BTA and OWL, I respectfully ask for approval to backfill this excavation. I also request a variance for the 20ml liner set in the referenced SB points. A 20ml liner set at 4' BGS and seated 30' total horizontally which should be sufficient separation of the vadose zone and groundwater being at 80.4 '. A layer of 4' of clean imported soil on top of liner to ground surface and an additional ft that the BLM requested in these spots will give 5' of clean soil to promote healthy vegetation and give wildlife the ability to establish the natural habitat. The liner will block rainwater from migrating contamination through the vadose zone to groundwater. Instead, it will push it out and around those spots and give other areas necessary water to thrive. Under 19.15.29.14(A), this written demonstration and information provided should be sufficient evidence to grant a variance for the 20ml liner placed at this site.

The conditions of approval the BLM imposed are as follows.

- Extra backfill for areas of water settling and loss of water flow.
- River rocks places and staggered to slow to flow of water and prevent future erosion and loss of vegetation.
- Reseed with a mix of BLM 1&2 with loam and sand mix free of noxious and intrusive weeds.
- Remove and properly dispose of all African Rue with documents of proof.

The contaminated material from the BTA portion will be hauled off to an approved landfill and when all completed a closure report documenting all activities will be submitted to NMOCD and BLM for approval.

I thank you in advance for your consideration of this request and look forward to hearing from you

Michael Alves Alves Oilfield Solutions 2215 West Bender Hobbs NM 88240 575-631-4310 Cell michaelalves@alvesoilfieldsolutons.org

## Table Of Contents

Appendix 1- C-141 Appendix 11- Sitemaps Appendix 111- Groundwater report Appendix 1V- Site Phots Appendix V- Approvals Via Email Appendix V1- Sampling and lab data

## Appendix I- C-141

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2126455144
District RP	
Facility ID	
Application ID	

### **Release Notification**

#### **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) <b>nAPP2126455144</b>
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

#### **Location of Release Source**

Latitude: 32.05929 Longitude: -103.61722

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B #5H Produced Water Line NORTH END	Site Type: Flowline
Date Release Discovered: 7/13/2020	API# ( <i>if applicable</i> ) Nearest well: Mesa B #001 API #30-025-30662

Unit Letter	Section	Township	Range	County
E	7	26S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

#### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) <b>0 BBL</b>
Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) <b>0 BBL</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A hole in the pipeline released produced water and negligible oil into and along the lease road, a gully, and onto a pipeline ROW. The volume released is not known.

Field and office personnel on duty at the time of the release did not report the spill but did mobilize a contractor to immediately respond on 7/13/2020 and subsequent days by excavating & disposing of impacted soil.

Received by OCD: 12/20/2021 2:48:21 PM

	Incident ID	nAPP2126455144
Oil Conservation Division	District RP	
	Facility ID	
	Application ID	
)	nservation Division	nservation Division District RP Facility ID

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?	The spill volume is unknown but is believed to be greater than 25 BBL due to the extent of the	
🛛 Yes 🗌 No	spill, which the NMOCD Rules define as a major release.	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
NO. The incident was r	not recognized as a new release until preparation of the work plan for remediation.	

#### **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

#### **ADDITIONAL INFORMATION**

The impacted area due to the present release was identified in the submittal of the remedial work plans submitted to the BLM and NMOCD and merged into the NMOCD Incident # NRM2015756964. The area has been remediated in accordance with the approved work plans. A closure report is being prepared for submittal.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Bob Hall Title: Environmental Manager

Signature: Blathalf	Date: 9/21/2021
email: bhall@btaoil.com	Telephone: 432-682-3753
OCD Only	
Received by:	Date:



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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2015756964
District RP	
Facility ID	
Application ID	

### **Release Notification**

#### **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NRM2015756964
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

#### **Location of Release Source**

Latitude: 32.05101° Longitude: -103.61744°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B 8115 JVP #5H Produced Water Line	Site Type: Flowline
Date Release Discovered: 5/18/2020	API# ( <i>if applicable</i> ) Nearest well: Mesa B #5H API #30-025-42128

Unit Letter	Section	Township	Range	County
М	7	26S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

#### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☑ Produced Water       Volume Released (bbls) 276 BBL       Volume Recovered (bbls) 0 BBL (corrected)         Is the concentration of dissolved chloride in the produced water >10,000 mg/l?       ☑ Yes □ No         □ Condensate       Volume Released (bbls)       Volume Recovered (bbls)         □ Natural Gas       Volume Released (Mcf)       Volume Recovered (Mcf)	Crude Oil	Volume Released (bbls) 1 BBL	Volume Recovered (bbls) 0 BBL
produced water >10,000 mg/l?       Condensate       Volume Released (bbls)       Volume Recovered (bbls)	Produced Water	Volume Released (bbls) 276 BBL	Volume Recovered (bbls) <b>0</b> BBL (corrected)
			Yes No
Natural Gas         Volume Released (Mcf)         Volume Recovered (Mcf)	Condensate	Volume Released (bbls)	Volume Recovered (bbls)
	Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)       Volume/Weight Released (provide units)       Volume/Weight Recovered (provide units)	Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A split in the produced water flowline released produced water into several gullies and a pipeline ROW.

The reported volume was determined by measuring the area of the "wetted" area from a drone picture. Then, using analytical data to identify an impacted depth and an estimated porosity, a calculated volume of the release was estimated to be 276 BBL of unrecovered produced water, plus negligible oil.

(9/21/2021) Correction made above to show there was no volume of Produced Water recovered as indicated originally in the statement immediately above and on the original Spill Calculation Spreadsheet.

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#### **Oil Conservation Division**

Incident ID	NRM2015756964
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by		
19.15.29.7(A) NMAC?	The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major	
Yes 🗌 No	release.	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
No. The release was not believed to be greater than 25 BBL. However, evaluation of analytical data is being		
used to estimate a greater volume of a release.		
useu lo estimate a greater volume or a release.		
L		

#### **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Bob Hall Title: Environmental Manager

 Signature:
 Date:
 Correction 9/21/2021

email: bhall@btaoil.com Telephone: 432-682-3753

#### **OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

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### **Release Notification**

#### **Responsible Party**

Responsible Party: OWL SWD Operation, LLC	OGRID: 380339
Contact Name: Mr. Phillip Sanders	Contact Telephone: 210-906-3551
Contact email: <u>psanders@oilfieldwaterlogistics.com</u>	Incident # (assigned by OCD)
Contact mailing address: 8201 Preston Road, Suite 520, Dallas,	
Texas 75225	

#### **Location of Release Source**

Latitude 32.059697\_

Longitude : 103.616531\_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Harrier Surface Line	Site Type Pipeline Easement
Date Release Discovered 10.4.2020 9:55am	API# (if applicable): N/A

Unit Letter	Section	Township	Range	County
L2, L3, L4	7,18	26S	33E	Lea

Surface Owner: State Federal Tribal Private (*Name:* BLM

#### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 4,800	Volume Recovered (bbls): 60
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Unkno	own vehicle ran over the pipeline, causing a rupture.	

<i>ceived by OCD: 12/20/2021 2:48:21 PM</i> State of New Mexico			Page 14 of 2
June 2State of New MexicoOil Conservation Division		Incident ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ⊠ Yes □ No	If YES, for what reason(s) does the responsible par The release is larger than 25bbls.	ty consider this a major release?	
	otice given to the OCD? By whom? To whom? Where a structure of the OCD and Jim Amos with the BLM	· · · · · · · · · · · · · · · · · · ·	?

#### **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

email: <u>esanders</u> email: <u>esanders</u> email: <u>esanders</u> esanders	Title: $-SEDigectoR$ Date: $10/S/20$ Telephone: (432)269-3735
OCD Only Received by:	Date:

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### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🕅 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🕅 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔀 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🔀 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- $\underline{X}$  Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- $\mathbf{X}$  Boring or excavation logs
- Photographs including date and GIS information
- X Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain release notificat ment. The acceptance of a C-141 report by the OCD ate and remediate contamination that pose a threat to f a C-141 report does not relieve the operator of resp	of my knowledge and understand that pursuant to OCD rules and ons and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In onsibility for compliance with any other federal, state, or local laws de: $\frac{HSED}{L2}$ te: $\frac{HSED}{L2}$
Received by:		Date:

Received by OCD: 12/20/2021 2:48:21 PM Form C-141 State of New Mexico

Oil Conservation Division

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### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

 Image: Detailed description of proposed remediation technique

X Scaled sitemap with GPS coordinates showing delineation points

X Estimated volume of material to be remediated

Z Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

X Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigated surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la Printed Name:	ertain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
OCD Only Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

Page 5

Page 6

Oil Conservation Division

Incident ID	
District RP	
E '1' ID	
Facility ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

## Appendix II- Sitemaps

#### Received by OCD: 12/20/2021 2:48:21 PM BIA OII Producers

Mesa B 8115 JV-P Com 5H (Close Well) M-7-26S-33E API-30-025-42128 32.0514 -103.6187 5,532 SQ FT

**CReleased to Imaging: 1/14/2022 8:08:22** AM

AND AND AND A STATISTICS

3

Cable

SP

10 miles

17 Mart

+19

SP4

FP3

SP1

SP2

SP







Harrier line Release Map



## Appendix III- Groundwater Search



September 9, 2021

NMOCD Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Depth to Groundwater Determination BTA Oil Producers Mesa Area

To Whom it May Concern

RXSoil, Inc. is pleased to submit the determination of depth to groundwater for the areas described in the report.

Sincerely,

Jace Caraway Chief Operating Officer RXSoil, Inc. (940) 210-2051

Zug Rellis

Zach Robbins Technical and Engineering Analyst RXSoil, Inc. (210) 400-7645

#### **Table of Contents**

I. B	3ackground	3
	Findings	
	Determinations	

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2.	Well Map	5

#### Appendix

Α.	Well Records	8

#### I. Background

On behalf of BTA Oil Producers, LLC, RXSoil, Inc. ("RXSoil") has prepared this document as a determination for depth to groundwater in the Mesa area (see *Figure 1*). Atkins Engineering Associates Inc. (Drilling License No. 1249) was hired for the drilling, logging, and plugging of these wells.

Assigning an approximate center point of this area to 32.0639, -103.6288, there were only two recent wells within a two-mile radius. Per the OSE POD Locations database, C 04485 POD1 is located 0.28 miles southwest of the center point and within the triangle of determination described in **Section III**. That well had a depth of 55' with no water detected and a finish date of 10/05/2020. C 04537 POD1 is located 1.90 miles northwest of the center point and outside of the determination area. That well had a depth of 500' with water detected at 280' and a finish date of 06/11/2021.

#### II. Findings

Three wells were drilled and left open for 72 hours to allow for a reading of static water level. The locations of these wells, along with the proposed area of inclusion for these determinations, are included in *Figure 2*.

OSE FILE	l	ATITUDE (N	)	LC	ONGITUDE (V	V)	BOREHOLE	STATIC	
NO.	DEGREES <sup>4</sup>	DEGREES <sup>4</sup> MINUTES SECONDS		DEGREES	MINUTES	SECONDS	DEPTH, FT	WATER LEV <del>EL, FT</del>	
C-4547	32	3	14.34	103	36	16.96	112	89.5	
C-4548	32	3	49.57	103	39	9.68	110	81.4	
C-4549	32		40.92	103	37	53.68	103	N/A	_

#### III. Determinations

RXSoil is requesting that based on the results from these water wells, all incidents within the triangle formed by the outer edges of the 0.5-mile radii from the water wells, as shown in *Figure 2*, will have a determined groundwater greater than or equal to 81.4 feet, the shallowest of the three wells. Remediation standards for locations with determined groundwater of 51' to 100' will be used for incidents in the described area.





#### Legend



Area of Inclusion - 0.5 mile radii connected

Page 28 of 203

A N

1 mi

🗧 Well Location

#### **APPENDIX A**

WELL RECORDS



07/29/2021

2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

OSE DIT AUG 2 2021 PM2:50

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4547 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4547 Pod1. On a BTA Oil Producers well location in Lea County, NM

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

lacon Middle

Lucas Middleton

Enclosures: as noted above



OSE DIT AUG 2 2021 PM 2:50



### WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

ION	OSE POD NO. (WELL NO.) POD1 (MW-1) n/a						OSE FILE NO(S). C-4547				
OCAT	WELL OWNER NAME(S) BTA Oil Producers						PHONE (OPTIONAL)				
MELL I	WELL OWNER MAILING ADDRESS 104 S. Pecos St.						CITY Midland		state TX 79701	ZIP	
GENERAL AND WELL LOCATION	LOCATION LATITUDE		EGREES MINUTES SECONDS 32 3 14.34 N			ACCURACY REQUIRED: ONE TENTH OF A SECOND     ADATUM REQUIRED: WGS 84					
NEB	(FROM GP		NGITUDE		103 36 16.96 W						
1. GF	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIJP, RANGE) WHERE AVAILABLE NE SE Sec. 07 T26S R33E										
	LICENSE NO 124		NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL DRI Atkins Eng	ILLING COMPANY ineering Associates, I	nc.
	DRILLING ST 07/15/		DRILLING ENDED 07/15/2021					LE DEPTH (FT) 112		ST ENCOUNTERED (FT) unknown	
NC	COMPLETED WELL IS: ARTESIAN			C DRY HO	T DRY HOLE T SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 89.5		
ATIC	DRILLING FI	LUID:	AIR	∏ MUD	ADDITIVI	es – speci	FY:				
DRM	DRILLING METHOD: ROTARY HAMMER CABLE TOOL 7 OTHE						R - SPECIFY: Hollow Stem Auger				
INFO	DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR GRADE		/OR	CASING		CASING	CASING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM TO DIAM (inches)		(include each casing string, and note sections of screen)		CONNECTION TYPE (add coupling diameter)		INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)		
& C	0 21 ±8.5		Boring- HSA								
DNG	21 112 ±3.5		Boring- Air Rotary								
ILL				1							
C. DE						-					
							-				
				1						1	
L	DEPTH (feet bgl) BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AN				AMOUNT (cubic feet)	METHO PLACEM			
RIA	FROM	то	Dirtivi. (menes)	GRAVEL PACK SIZE-RANGE BY INTE			(cubic reet)				
ATE											
RM			-							-	
NLA											
ANNULAR MATERIAL											
3.7											

FOR OSE INTERNAL USE	WR-20 WELL RECORD & LOG (Version 06/30/17)						
FILE NO.	POD NO.		TRN NO.				
LOCATION			TAG ID NO.	PAGE 1 OF 2			

•

OSE DTI AUG 2 2021 PM2:50

	DEPTH (feet bgl)     THICKNESS       FROM     TO     (feet)			COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)			s	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	0	4	4	Caliche, Consolidated , White					Y	√ N	Louizo (Spin)
	4	44	40	Sand, Fine-graine	d, poorly graded, with calich		Redish Brown	1	Y	√ N	
	44	51	7		Clay, Stiff, Dark Brown				Y	√ N	
	51	103	52	Sandston	e, Fine-grained, poorly grade	d, Tan Brown			√ Y	N	
									Y	N	
г									Y	N	
HYDROGEOLOGIC LOG OF WELL		•						1	Y	N	
OF									Y	N	
DO DO									Y	N	
ICI									Y	N	
l 00									Y	N	
EO									Y	N	
ROC									Y	N	
									Y	N	
4									Y	N	
									Y	N	1
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
							LESTI				
	PUM		IR LIFT	BAILER OT	HER – SPECIFY:			WEL	L YIELI	) (gpm):	0.00
VISION	WELL TES				A COLLECTED DURING IOWING DISCHARGE AN						
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring plugged using tremie pipe to total depth and landed cement slurry of <6.0 gallons of water per 94 lbs sack of Portland TYPE I/II Neat Cement. See attached Plugging Record PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE									th and landed ee attached	
LES										IAN LICENSEE:	
Shane Eldridge, Cameron Pruitt, Carmelo Trevino											
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FORE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins 07/29								GOING I	S A TRUE AND ATE ENGINEER		
SIGN	Jack Atkins Jackie D. Atkins						07/29/2021				
¢.	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE										
FOI	R OSE INTER	NAL USE					WR-20 WE	LL REC	CORD &	LOG (Ve	rsion 06/30/2017)
	E NO.				POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2

# 2021-07-28\_C-4547\_POD1\_OSE\_Well Record and Log\_mesa1-for sign

Final Audit Report

2021-07-29

A DOOD HOUSE

Г			DBE DH AUG 2 2021 PM2.00
	Created:	2021-07-29	
	By:	Lucas Middleton (lucas@atkinseng.com)	
	Status:	Signed	
	Transaction ID:	CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdl53lwclm	

### "2021-07-28\_C-4547\_POD1\_OSE\_Well Record and Log\_mesa1 -for sign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 - 8:40:54 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 - 8:41:43 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 - 8:43:29 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2021-07-29 - 8:44:00 PM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-07-29 - 8:44:00 PM GMT





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

07/29/2021

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

OSE DIT AUG 2 2021 PM2:43

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4548 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4548 Pod1. On a BTA Oil Producers well location in Lea County, NM

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Guoon Middlam

Lucas Middleton

Enclosures: as noted above



DSE DIT AUG 2 2021 PM2:49



### PLUGGING RECORD



#### NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

Engineer W	ell Number:	548-POD1							
owner: BT	A Oil Producers				_	Phone N	No.: 432	.312.2203	
ng address:	104 S. Pecos St.								
Midland			State		Te	xas		_ Zip code	:
VELL PLU Name of	GGING INFORM	MATION: apany that plugg	ed well:	Jackie D. A	Atkins ( A	Atkins Eng	gineering	Associates	Inc.)
				owing well	driller(	s)/rig sup	ervisor(s)	):	
Date we	ll plugging began	07/19/2021		Date	well plu	gging cor	ncluded:	07/19/202	21
GPS We	ll Location:			deg, deg,	3 39				84
Depth of by the fo	f well confirmed a blowing manner:	t initiation of pl weighted tape	ugging as	:99	ft bel	ow groun	nd level (l	bgl),	
Static wa	ater level measure	d at initiation of	fplugging	;:81.4	ft bgl	l			
Date we	ll plugging plan o	f operations was	approve	d by the Sta	te Engir	neer:6/	24/2021		
Were all difference	plugging activitie ces between the ap	es consistent wit oproved pluggin	h an appr g plan and	oved plugg d the well a	ing plan s it was	? plugged (	Yes (attach ad	_ If not, lditional pa	please describe ges as needed):
	owner: BT/ ng address: Midland VELL PLUG Name of New Me Well plu Shane E Date wel GPS We Depth of by the fo Static we Date wel Were all	owner:       BTA Oil Producers         ng address:       104 S. Pecos St.         Midland       Midland         VELL PLUGGING INFORM         Name of well drilling com         New Mexico Well Driller         Well plugging activities w         Shane Eldridge, Cameron         Date well plugging began         GPS Well Location:         Depth of well confirmed a         by the following manner:         Static water level measure         Date well plugging plan o         Were all plugging activities	Ing address:       104 S. Pecos St.         Midland	owner:       BTA Oil Producers         ng address:       104 S. Pecos St.         Midland       State         VELL PLUGGING INFORMATION:       State         Name of well drilling company that plugged well:       New Mexico Well Driller License No.:       1249         Well plugging activities were supervised by the foll Shane Eldridge, Cameron Pruitt, Carmelo Trevino       Date well plugging began:       07/19/2021         GPS Well Location:       Latitude:       32       Longitude:       103         Depth of well confirmed at initiation of plugging as by the following manner:       weighted tape       Static water level measured at initiation of plugging as by the following manner:       weighted tape	owner:       BTA Oil Producers         Ing address:       104 S. Pecos St.         Midland	owner:       BTA Oil Producers         ng address:       104 S. Pecos St.         Midland       State:       Te         VELL PLUGGING INFORMATION:       Name of well drilling company that plugged well:       Jackie D. Atkins (A         New Mexico Well Driller License No.:       1249         Well plugging activities were supervised by the following well driller(s         Shane Eldridge, Cameron Pruitt, Carmelo Trevino         Date well plugging began:       07/19/2021         Date well plugging began:       103         Longitude:       103       deg,         Jopth of well confirmed at initiation of plugging as:       99       ft bel         by the following manner:       weighted tape       Static water level measured at initiation of plugging:       81.4       ft bgl         Date well plugging plan of operations was approved by the State Engir       Were all plugging activities consistent with an approved plugging plan	owner:       BTA Oil Producers       Phone N         ng address:       104 S. Pecos St.	owner:       BTA Oil Producers       Phone No.: 432         ng address:       104 S. Pecos St.         Midland       State:       Texas         VELL PLUGGING INFORMATION:       Name of well drilling company that plugged well:       Jackie D. Atkins (Atkins Engineering         New Mexico Well Driller License No.:       1249       Expira         Well plugging activities were supervised by the following well driller(s)/rig supervisor(s)       Shane Eldridge, Carneron Pruitt, Carmelo Trevino         Date well plugging began:       07/19/2021       Date well plugging concluded:         GPS Well Location:       Latitude:       32       deg,       3       min,       49.57         Longitude:       103       deg,       39       min,       9.68         Depth of well confirmed at initiation of plugging as:       99       ft below ground level (1         by the following manner:       weighted tape       103       deg,       114       ft bgl         Date well plugging plan of operations was approved by the State Engineer:       6/24/2021       Yes	owner:       BTA Oil Producers       Phone No.:       432.312.2203         ng address:       104 S. Pecos St.

### OSE DIT AUG 2 2021 PM2:49

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
in E	0'-99' Portland TYPE I/II Neat Cement Slurry	Approx. 144 gallons	82 gallons	Tremie	
-					
-					
-					
-					
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	3Y AND OBTAIN 805 = gallons 77 = gallons		

#### **III. SIGNATURE:**

I, <u>Jackie D. Atkins</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

07/28/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2
JOC UTI HUG Z ZUZI PAZ:40

# 2021-07-28\_C-4548\_POD1\_OSE\_Well Record and Log\_mesa2-forsign

Final Audit Report

2021-07-29

1		
	Created:	2021-07-29
	Ву:	Lucas Middleton (lucas@atkinseng.com)
	Status:	Signed
	Transaction ID:	CBJCHBCAABAAemiJJm6dcVKiYQ9i0g-pp8LWJNXDnRqz

## "2021-07-28\_C-4548\_POD1\_OSE\_Well Record and Log\_mesa2 -forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 - 6:34:14 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 - 6:35:33 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 - 8:10:52 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2021-07-29 - 8:12:07 PM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-07-29 - 8:12:07 PM GMT



DSE DIT AUG 2 2021 PM2:49



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	ose pod no. POD1 (M		).)		WELL TAG ID NO. n/a			OSE FILE NO(S C-4548	S).					
LOCATI	WELL OWNE BTA Oil Pr		)					PHONE (OPTIC	ONAL)					
WELL I	WELL OWNE 104 S. Pecc		G ADDRESS					CTTYSTATEZIPMidlandTX79701						
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS	3)	TITUDE	GREES 32 103	MINUTES 3 39	SECONI 49.5 9.68	7 <sub>N</sub>		REQUIRED: ONE TENT	TH OF A SECOND				
1. GENE	DESCRIPTIO	N RELATE	NGITUDE NG WELL LOCATION TO 1 T26S R32E					S (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVAILABLE				
	LICENSE NO.		NAME OF LICENSED	DRILLER	RILLER					ILLING COMPANY				
	124	9			ackie D. Atkins			1	Atkins Eng	ineering Associates,	Inc.			
	DRILLING ST 07/13/2		DRILLING ENDED 07/13/2021	DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (       temporary well material     110						ST ENCOUNTERED (F1 unknown				
N	COMPLETED	WELL IS:	ARTESIAN	DRY HOLE V SHALLOW (UNCONFINED)					STATIC WATER LEV	EL IN COMPLETED W 81.4	ELL (FT)			
ATIC	DRILLING FLUID: 🔽 AIR 🗌 MUD ADDITIVES – SPECIFY:													
2. DRILLING & CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMMER	CABLE TO	DOL	✓ OTHE	R – SPECIFY:	Hollo	w Stem Auger				
	DEPTH (feet bgl) BORE HOLE   FROM TO DIAM   (inches) (inches)			(include e	MATERIAL AND GRADE ach casing string, ections of screen)	and	CONN	ASING NECTION YPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)			
	0	110	±8.5	Boring- HSA										
JNG														
RILI														
2. D														
						0.1					-			
			-											
ч	DEPTH (		BORE HOLE DIAM. (inches)	1	T ANNULAR SE /EL PACK SIZE-				AMOUNT (cubic feet)	METH				
CRIA	FROM	то			ILD I HOK BIEL-									
IATH														
AR N														
NUL														
3. ANNULAR MATERIAL														
<del>(</del> 7)														
FOR	OSE INTERI	NAL USE						WR-20	0 WELL RECORD &	& LOG (Version 06/	30/17)			

FILE NO.	POD NO,		TRN NO.	
LOCATION		WELL	TAG ID NO.	PAGE 1 OF 2

## OSE DIT AUG 2 2021 PM2:50

	DEPTH (1 FROM	reet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL EN R-BEARING CAVITIES OI plemental sheets to fully de	R FRAC	TURE ZONES	5	WA' BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	19	19	Sand. Medium grai	ned, poorly graded, increasi	ng clay.	Gravish Brown	1	Y	√ N	
	19	24	5		l, poorly graded, with Grave				Y	√ N	
	24	39	15		-Fine grained, poorly graded				Y	√ N	
	39	44	5		m -Fine grained, poorly grad				Y	√N	
						-		n. dan	Y	√ N	
-	44     59     15     Sand, Medium -Fine grained, poorly graded, increasing clay, Redish Brown, day       50     70     20     Clay, model is Blocking with fine grained and Dark Redish Brown									√ N	
HYDROGEOLOGIC LOG OF WELL										N	
ΕW	97		13		icky, with fine-grained sand,	_		_	✓ Y ✓ Y	N	
0 0	97	110	15	Clay, mou resuctly, se	icky, with mic-gramed said,	Dark K	culai biowii, i	40151	Y	N	
CLO			A				_	_	Y	N	
JŪ								_	Y	N	
OLA								_	Y	N	
OGE									Y		
DR		1							Y	N N	
4, H)											
									Y	N	
								-	Y	N	
3						_		_	Y	N	
								_	Y	N	
								_	Y	N	
									Y	N	
									Y	N	
	METHOD U		_	OF WATER-BEARING	3 STRATA: HER – SPECIFY:				AL ESTIN L YIELD		0.00
N	WELL TES	T TEST	RESULTS - ATT I TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SH	A COLLECTED DURING V	WELL 1 D DRAV	ESTING, INC	LUDI R TH	NG DISC E TESTIN	HARGE N IG PERIO	ИЕТНОД, D.
NOISI/	MISCELLA		ORMATION:					_			
TEST; RIG SUPERV	MISCELLA	NEOUS INF	ce		ls removed and the soil b allons of water per 94 lbs						
LES.	PRINT NAM	Æ(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVIS	SION O	F WELL CON	STRU	CTION O	THER TH	AN LICENSEE:
5.1	Shane Eldri	dge, Camer	on Pruitt, Carm	elo Trevino							
SIGNATURE	CORRECT I	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WILJ PLETION OF WELL DRILI	L FILE '	GE AND BELI THIS WELL R	EF, T	HE FORE	GOING I THE STA	S A TRUE AND ATE ENGINEER
SIGNA	Jack At	kins		Jao	kie D. Atkins				07/2	9/2021	
¢.		SIGNAT	URE OF DRILLI	ER / PRINT SIGNEE	NAME	-	1977 - 19			DATE	
FO	R OSE INTER	NAL USE					WR-20 WEI	LRE	CORD &	LOG (Ve	rsion 06/30/2017)
	E NO.				POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

07/29/2021

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

USE DIT AUG 2 2021 PM2:50

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4549 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4549 Pod1. On a BTA Oil Producers well location in Lea County, NM

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Guoon Middlin

Lucas Middleton

Enclosures: as noted above



## PLUGGING RECORD



## NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

## I. GENERAL / WELL OWNERSHIP:

State I	Engineer Well Number: C-4549-POD1						
Well o	owner: BTA Oil Producers			Phone	No.: 432.	312.2203	
Mailir	ig address: 104 S. Pecos St.						
City:	Midland	State:		Texas		Zip cod	e:
	ELL PLUGGING INFORMATION:		ackie D A	tkins ( Atkins Fr	aineerina /	Associates	sinc)
1)	Name of well drilling company that p	blugged well:			iginoonig /	10000/4100	,
2)	New Mexico Well Driller License No	D.: 1249			_ Expirat	ion Date:	04/30/23
3)	Well plugging activities were supervi Shane Eldridge, Cameron Pruitt, Car	ised by the follo					
4)	Date well plugging began: 07/19/2	021	_ Date	well plugging co	oncluded: _	07/19/20	21
5)	GPS Well Location: Latitude: Longitude	32 :103	_deg, _deg,	4 min, 37 min,	40.92 53.68	sec sec, WG	S 84
6)	Depth of well confirmed at initiation by the following manner: weighted ta	of plugging as: ape	103	ft below grou	ind level (b	gl),	
7)	Static water level measured at initiati	on of plugging:	n/a	ft bgl			
8)	Date well plugging plan of operation	s was approved	by the Sta	te Engineer: 🔤	6/24/2021	-	
9)	Were all plugging activities consister differences between the approved plu	nt with an appro-	ved pluggi	ing plan?	Yes (attach add	If not,	please describe

Version: September 8, 2009 Page 1 of 2

## OSE DIT AUG 2:2021 PM2:50

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 15.6 gallons	15 gallons	Augers	
	10'-103' Drill Cuttings	Approx. 148 gallons	148 gallons	Boring	
-		MULTIPLY E cubic feet x 7.4	3Y AND OBTAIN 1805 = gallons		
		cubic yards x 201.9	97 = gallons		

## For each interval plugged, describe within the following columns:

## III. SIGNATURE:

I, <u>Jackie D. Atkins</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

07/28/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

## 2021-07-28C-4549-POD1\_Plugging Recordforsign

**Final Audit Report** 

2021-07-29

- 1		
	Created:	2021-07-29
	By:	Lucas Middleton (lucas@atkinseng.com)
	Status:	Signed
	Transaction ID:	CBJCHBCAABAAiFUITUMQvUeHWAgcMsacioucKnSt5mzA
- 1		

## "2021-07-28C-4549-POD1\_Plugging Record-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 - 8:42:26 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 - 8:42:53 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 - 8:44:10 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2021-07-29 - 8:44:29 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed. 2021-07-29 - 8:44:29 PM GMT



OSE DIT AUG 2 2021 PM2:50



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

ION	OSE POD NO POD1 (M	(W-1)	,		WELL TAG ID NO. n/a			OSE FILE NO() C-4549	S).					
LOCAT	WELL OWN BTA Oil P							PHONE (OPTIO	ONAL)					
GENERAL AND WELL LOCATION	WELL OWN 104 S. Pec		NG ADDRESS					CITY Midland		state TX 79701	ZIP			
AND	WELL		I	egrees 32	MINUTES 4	SECON 40.								
TAL.	LOCATIO (FROM GR		LATITUDE				- N		REQUIRED: ONE TEN:	TH OF A SECOND				
CNEF			LONGITUDE	103	37	53.								
1. Gł	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE NW NW NW Sec. 11 T26S R32E													
	LICENSE NO 124		NAME OF LICENSE	D DRILLER		NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, In								
	DRILLING S 07/14/		DRILLING ENDED 07/14/2021		MPLETED WELL (FT rary well material			le depth (FT) 103	ST ENCOUNTERED (FI 11/a	)				
Z	COMPLETEI	D WELL IS	S: T ARTESIAN	T DRY HOLE SHALLOW (UNCONFINED)					STATIC WATER LEV	'EL IN COMPLETED W n/a	ELL (FT)			
IOILI.	DRILLING F	LUID:	AIR	MUD ADDITIVES - SPECIFY:										
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY			HAMME	R CABLE TO	DOL	✓ OTHEI	R – SPECIFY:	Hollo	w Stem Auger				
	DEPTH		DORE HOLE	CASING	MATERIAL AND GRADE	/OR	CA	SING	CASING	CASING WALL	SLOT			
	FROM	FROM TO DIAM (inches)			each casing string, a sections of screen)	and	Т	VECTION YPE ing diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)			
& C	0	103 ±8.5			Boring- HSA						-			
DNI														
ILL														
5. DI						-								
	DEPTH	(feet bgl)	) BORE HOLE		ST ANNULAR SE	AL MA	TERIAL A	ND	AMOUNT	METHO	DD OF			
F	DEPTH (feet bgl) BORE HOLD FROM TO DIAM. (inche				VEL PACK SIZE-				(cubic feet)	PLACE				
CIER		FROM TO DIAM. (inche												
IAM	_													
AR														
IN														
3. ANNULAR MATERIAL	-			-										
е,														
				1										

FOR OSE INTERNAL USE			WR-20 WELL RECORD	& LOG (Version 06/30/17)
FILE NO.	POD NO.		TRN NO.	
LOCATION		WELI	, TAG ID NO.	PAGE 1 OF 2

							land and	L LUI MI	19/ AUX	PMZ
	DEPTH (i FROM	èeet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL F R-BEARING CAVITIES C plemental sheets to fully d	R FRAC	TURE ZONES	WA BEA	ATER JRING? S / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4		Caliche, Consolidated , W	hite		Y	√ N	
	4	9	5	Calich	e, Consolidated , with fine-	grained, 7	Tan	Y	√ N	
	9	14	5		Caliche, Consolidated, W	hite		Y	√ N	
2	14	19	5	Calich	e, Consolidated , with fine-	grained, 7	l'an	Y	√N	
	19	69	50	Sand, Fine-gra	ined poorly graded, with ca	liche, Ta	nish Brown	Y	√ N	
Ŀ	69	79	103	Cla	y, Stiff, High Plasticity, Da	k Brown		Y	√ N	
HYDROGEOLOGIC LOG OF WELL		0.03						Y	N	
OF V				1				Y	N	
00		?	I,					Y	N	
CLU			P					Y	N	
DG.								Y	N	
EOL		<u>.</u>						Y	N	
ROG								Y	N	
IQX		i						Y	N	
4. H								Y	N	
ŝ								Y	N	
		1		7				Y	N	
6								Y	N	
								Y	N	
		1						Y	N	
								Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:	OTAL EST	IMATED			
	PUMI		IR LIFT	BAILER OT	HER – SPECIFY:			WELL YIEL	.D (gpm):	0.00
NO	WELL TES	T TEST	RESULTS - ATT. I TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SH	A COLLECTED DURING	WELL T	ESTING, INCLU WDOWN OVER	JDING DIS THE TEST	CHARGE I ING PERIC	METHOD, DD.
TEST; RIG SUPERVISION	MISCELLAI	NEOUS INF	ORMATION: Te	emporary well materia et below ground surfa	als removed and the soil l ice, then hydrated benton	ooring b ite chips	ackfilled using from ten feet b	drill cutting pelow groun	gs from to nd surface	tal depth to ten to surface.
EST	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERV	SION O	F WELL CONST	RUCTION	OTHER TH	IAN LICENSEE:
5. 1			on Pruitt, Carm							
SIGNATURE	CORRECT F	ECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EEST OF HIS OR HER KN ID THAT HE OR SHE WII PLETION OF WELL DRII	L FILE	GE AND BELIEI THIS WELL REG	F, THE FOR CORD WIT	EGOING I H THE STA	S A TRUE AND ATE ENGINEER
6. SIGN	Jack A	tkins		Ja	ckie D. Atkins			07/2	29/2021	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME				DATE	
FOI	R OSE INTERI	NAL USE					WR-20 WELL	RECORD &	LOG (Ve	rsion 06/30/2017)
	E NO.				POD NO.		TRN NO.			
LO	CATION					WELL	TAG ID NO			PAGE 2 OF 2

## BSE DIT ALIG 2 2021 002:50

**END OF REPORT** 

# Appendix IV- Site Photos

## Photo Page











Photo of the washed out road due to Heavy rain





Seating liner in excavation area



Sewing liner together in excavation



Backfilling excavation after liner installation



Liner properly seated in excavation

# Appendix V- Approvals Via Email



## Katherine Beldon <katherine@alvesoilfieldsolutions.org>

## NRM 2015756964

5 messages

MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Wed, Apr 14, 2021 at 10:20 AM To: jamos@blm.gov, Bob Hall <bhall@btaoil.com>, Michael@expertenviroservices.com, Katherine Beldon <katherine@alvesoilfieldsolutions.org>, Haylee Alves <haylee@alvesoilfieldsolutions.org>

Mr. Amos

In the above incident I need some guidance, there have been 2 different spills related to this line and only 1 c-141 was filled due to the confusion that the same line had two different spills. but to complicate things more, another company had a release right on top of the original spill all 3 were major releases. I've been tasked to remediate all 3 spills. That's the simple part but how would you like to separate the two for BTA? Since there were 2 spills i would like to do the following to simplify the report and paperwork and make it easy to understand for all parties.

Since there was not a c141 filled for the 2nd spill can we update the existing c-141 submit two maps but have the sample points in consecutive order. Spill 1 and spill 2 included and then submit 1 report in the end for BTA. on the 3rd spill for OWL since it runs directly on top of the 2nd bta spill and the 1st bta spill i will remediate the same way but just submit a second report with most of the same information just labeled as OWL not BTA?

I've included all 3 maps for your convenience and the c-141 from BTA 1st spill.

Respired by QSCA: 12/20/2021 2:48:21 PM



**Michael Alves** Alves Oilfield Solutions 575-631-4310



I'm a movement by myself but I'm a force when we work together



MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Thu, Apr 15, 2021 at 10:51 AM To: Mario Exact Flo <stucker@blm.gov>, Katherine Beldon <katherine@alvesoilfieldsolutions.org>, Haylee Alves <haylee@alvesoilfieldsolutions.org>

[Quoted text hidden]



Tucker, Shelly J <stucker@blm.gov>

Thu, Apr 15, 2021 at 1:36 PM To: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org>, Katherine Beldon <katherine@alvesoilfieldsolutions.org>, Haylee Alves <haylee@alvesoilfieldsolutions.org>

BLM hereby authorizes you to combine the two BTA releases, since they overlap each other, into one remedial action. When the remediation action has completed, submit a single report for the BTA releases and a single report for the OWL portion of the remediation. A separate C-141 for the 2nd BTA release will not be required. Please ensure that volumes and other pertinent information is recorded separately for each release within the combined report.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

**Environmental Protection Specialist** Realty

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5706 - Direct

575.200.0614

## stucker@blm.gov

From: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Sent: Thursday, April 15, 2021 10:51 AM To: Tucker, Shelly J <stucker@blm.gov>; Katherine Beldon <katherine@alvesoilfieldsolutions.org>; Haylee Alves <haylee@alvesoilfieldsolutions.org> Subject: [EXTERNAL] Fwd: NRM 2015756964

## This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

[Quoted text hidden]

MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Wed, Apr 28, 2021 at 9:07 PM To: Katherine Beldon <katherine@alvesoilfieldsolutions.org>, Haylee Alves <haylee@alvesoilfieldsolutions.org>, Candi Alves <candialveshkia@gmail.com>

------ Forwarded message ------From: **Tucker, Shelly J** <stucker@blm.gov> Date: Wed, Apr 28, 2021, 3:20 PM Subject: Re: FW: [EXTERNAL] Fwd: NRM 2015756964 To: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org>, Bob Hall <BHall@btaoil.com> Cc: Gomez, Robert <rgomez@blm.gov>

## BLM hereby requests the following:

- 1. Bore hole samples to be collected every 20' (linear) to determine depth of contamination.
- 2. A single bore hole sample 20' from the end of each "runner" within the drainage.
- 3. Contact the BLM with sample results. Based on the sample concentration/depths will determine whether a liner will be installed at 4' or if additional excavation will be required.
- 4. Within the watershed area, extra backfill will be required due settling and loss from water flow. Backfill will need to be of like soil for the depths of the excavation.
- 5. River rocks can be placed within the drainage area to slow the flow of water. Stagger the rock placement.
- 6. Do not cut additional water diversions.
- 7. Delineation will need to be horizontally and vertically.

Please be aware of the following items prior to any excavation activities.

1. The release point did not impact any known archaeological area.

2. The point of release occurred on and off of ROW but is **covered under a previous survey**, no additional surveys will be required.

- 3. This area is located within a High cave/karst zone.
- 4. This site is located within an **active watershed**.
- 5. Area is noted to be within **0-3% slope**.
- 6. Soils are within the Largo-Pajarito complex
- 7. BLM Seed Mix #1&2 Mixed (Loam and Sand mix) will be required.

8. The site is **NOT** located in DSL habitat or LPC habitat. No other T&E species noted (animal or vegetative) within this area.

- 9. Site is **not** located within Potash
- 10. Site is **not** located within a Special Area of concern.
- 11. Site is **not** located within a RMP ACEC.
- 12. Site is **not** located within Special Status Plant Species area.

From: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Sent: Thursday, April 15, 2021 2:57 PM To: Bob Hall <BHall@btaoil.com> Cc: Tucker, Shelly J <stucker@blm.gov> Subject: Re: FW: [EXTERNAL] Fwd: NRM 2015756964

To recap our remediation plan the entire release area will be excavated to 4' bgs. This is 2' from OWL, 2' from BTA. Remaining sampleing will be conducted at time of excavation due to equipment on site and pipelines in area. A 20 ml liner will be installed where needed and sidewalls will be taken at that time to ensure vertical and horizontal is fully delineated. Clean imported soil will be used for backfill and then the area will be reseed with an approved blm mix for this area, free of noxious weeds. Then 2 reports one for each company will be submitted documenting field activities.

If your ok with this and have any COA to add please let me know and can you send a email confirming your ok with this plan?

On Thu, Apr 15, 2021, 2:45 PM Bob Hall <BHall@btaoil.com> wrote:

It looks like this is approval to combine the spills, but it doesn't speak at all toward approval of the remediation plan. I think you discussed it Shelly.

Could you make a reply to her that acknowledges receipt and recaps the major points of the scope of work?

From: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Sent: Thursday, April 15, 2021 3:25 PM To: Bob Hall <BHall@btaoil.com>; Ben Grimes <BGrimes@btaoil.com> Subject: Fwd: [EXTERNAL] Fwd: NRM 2015756964

\*\*\*\*\* EXTERNAL EMAIL - Please use caution and <u>**DO NOT**</u> open attachments or click links from unknown or unexpected emails. \*\*\*\*\*

## Here you go.

[Quoted text hidden] [Quoted text hidden] [Quoted text hidden]

[Quoted text hidden] [Quoted text hidden]

r, 40:23 AW	Alves Oilfield Solutions LLC. Mail - NRM 2015756964	

[Quoted text hidden]

**MICHAEL ALVES** <michaelalves@alvesoilfieldsolutions.org> To: Katherine Beldon <katherine@alvesoilfieldsolutions.org> Thu, Jun 10, 2021 at 6:48 AM

[Quoted text hidden]



## Katherine Beldon <katherine@alvesoilfieldsolutions.org>

## Mesa B line/ Harrier line

4 messages

MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Thu, Sep 2, 2021 at 4:26 PM To: Mario Exact Flo <stucker@blm.gov>, Bob Hall <bhall@btaoil.com>, "psanders@oilfieldwaterlogistics.com" <psanders@oilfieldwaterlogistics.com>, Katherine Beldon <katherine@alvesoilfieldsolutions.org>

Shelly,

Thank you for the time first off for meeting me today. Per our conversation just to get it in writing. you gave backfill permission with a liner set in the areas referenced in the workplan. Also all the original COA you originally imposed are still going to be done as well with the water breaks and some areas being raised up to prevent erosion. also all african rue will be removed and taken to an approved disposal. at the end of remediation activities a closure report will be submitted documenting all activities and closure

Alves Oilfield Solutions 575-631-4310



I'm a movement by myself but I'm a force when we work together



## Tucker, Shelly J <stucker@blm.gov>

Tue, Sep 7, 2021 at 10:11 AM

To: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org>, Bob Hall <bhall@btaoil.com>, "psanders@oilfieldwaterlogistics.com" <psanders@oilfieldwaterlogistics.com>, Katherine Beldon <katherine@alvesoilfieldsolutions.org>

BLM hereby gives authorization for backfill and requests all African rue be properly disposed of.

Shelly J Tucker Environmental Protection Specialist Realty

stucker@blm.gov

575.234.5706 desk 575.200.0614 mobile

620 E Greene St Carlsbad, NM 88220 From: MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Sent: Thursday, September 2, 2021 4:26:48 PM To: Tucker, Shelly J <stucker@blm.gov>; Bob Hall <bhall@btaoil.com>; psanders@oilfieldwaterlogistics.com <psanders@oilfieldwaterlogistics.com>; Katherine Beldon <katherine@alvesoilfieldsolutions.org> Subject: [EXTERNAL] Mesa B line/ Harrier line

## This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

[Quoted text hidden]

MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org>

Tue, Sep 7, 2021 at 10:12 AM

To: "Tucker, Shelly J" <stucker@blm.gov>

Cc: Bob Hall <bhall@btaoil.com>, "psanders@oilfieldwaterlogistics.com" <psanders@oilfieldwaterlogistics.com>, Katherine Beldon <katherine@alvesoilfieldsolutions.org>

Thank you consider it done

Michael Alves [Quoted text hidden]

MICHAEL ALVES <michaelalves@alvesoilfieldsolutions.org> Tue, Sep 7, 2021 at 10:12 AM To: Katherine Beldon <katherine@alvesoilfieldsolutions.org>, Kayla Willis Prosise <kayla@alvesoilfieldsolutions.org>

Print this out

Michael Alves [Quoted text hidden]

# Appendix VI – Sampling and Lab Data

Mesa B05/ Harrier Line

		<u> </u>	1	Field C												
		Comula	Sample	Field S	creening								ТРН			
Location	GPS Coordinates	Sample	Depth		Titration							-				
		Date	(feet BGS)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			、 <i>,</i>	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Wall 1	N,32.05925 W-103.61722	7/12/21			249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 2	N.32.05918 W103.61725	7/12/21			624	176	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 3	N,32.05916 W,,-103.61710	7/12/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 4	N,32.05916 W,-103.61730	6/1/21			6,248											
Wall 4		6/1/21	2'		5,498											
Wall 4		6/2/21	4'		5,498											
Wall 4		7/12/21	5'		299	32	<10.0	<10.0	<0.300	<0.050	< 0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 4		6/2/21	6'		249											
Wall 5	N,32.05901 W,-103.61716	7/12/21			249	32	<10.0	<10.0	<0.300	< 0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 6	N.32.05888 W103.61729	6/2/21			5,748											
Wall 6		7/12/21	5'		249	<16.0	<10.0	<10.0	<0.300	<0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 7	N,32.05886 W,-103.61721	7/12/21			249	<16.0	<10.0	<10.0	< 0.300	<0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 8	N32.05874 W,103.61727	6/2/21			2,999											
Wall 8		6/2/21	2'		1,999											
Wall 8		6/2/21	4'		249											
Wall 8		7/12/21	5'		249	32	<10.0	<10.0	<0.300	<0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 8		6/2/21	6'		249											
Wall 9	N,32.05874 W,103.61721	7/12/21			249	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 10	N32.05860 W.103.61726	6/7/21			4,248											
Wall 10		7/12/21	3'		249	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 11	N,32.05859 W,103.61720	7/12/21			249	32	<10.0	<10.0	< 0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 12	N.3205849 W,103.61726	7/12/21			249	128	<10.0	<10.0	< 0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 13	N,32.05846 W.103,61718	7/12/21			249	32	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 14	N,32.05835 W,103.61718	7/12/21			249	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 14		6/18/21	2'		249											
Wall 15	N,32.05837 W,10361718	6/7/21			5,073											
Wall 15	,	6/16/21	2'		449											
Wall 16	N,32.05825 W103.61722	7/12/21			249	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 16		7/12/21	2'		449	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 15/17	Between 15-17	7/12/21				320	<10.0	<10.0	< 0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 17	N32,05824 W.103.61706	6/7/21			1,324											
Wall 17	- ,	6/16/21	2'		449											
Wall 18	N32.05813 W,103.61723	7/12/21	_		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 19	N,32.05813 W,103.61718	7/12/21			249	176	<10.0	<10.0	<0300	< 0.050	< 0.050	< 0.050	<0150	<10.0	<10.0	<10.0
Wall 20	N,32.05799 W,103.6123	6/7/21			549					İ						
Wall 20		7/12/21	2'		249	<16.0	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 21	N,32.05803 W,103.60716	7/12/21			249	<16.0	<10.0	<10.0	<.300	< 0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 22	N,32.05791 W,103.61720	7/12/21			249	<16.0	<10.0	<10.0	<0.300	< 0.050	< 0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 23	N,32.05790 W,103.61716	7/12/21			249	176	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 24	N,32.05776 W,103.61721	6/7/21			949											
Wall 24		7/12/21	2'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 25	N,3205777 W,-103.61713	6/7/21	-		1.099	10.0	10.0	10.0	\$0.500	.0.050	.0.000	.0.000	.0.130	10.0	10.0	10.0
Wall 25		7/12/21	2'		249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 26	N,.32.05768 W,103.61719	7/12/21	-		249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 27	N,32.05768 W,103.61712	6/7/21			874		.10.0	-2010	.0.000	.0.000	.0.000	.0.000	.0.200	-10.0	-10.0	
Wall 27		7/12/21	2'		249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 28	N,32.05758 W,103.61720	7/12/21	2		249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 29	N,32.05758 W,103.61712	6/7/21			2,124	-+0	10.0	-10.0	-0.500	.0.050	-0.050	.0.050	-0.130	-10.0	-10.0	10.0
Wall 29		7/12/21	2'		2,124	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 30	N,32.05748 W,103.61722	7/12/21	2		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
wan 50	1,32.33740 10,103.01722	,,12,21	1	•	275	10.0	10.0	10.0	\$0.500	\$0.050	10.000	10.050	\$0.150	10.0	10.0	10.0

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				Field So	creening					Labor	atory Resul	ts				
Landian		Sample	Sample		Titration			ТРН				Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth (feet BGS)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(leet Bd3)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Wall 31	N,32.05747 W.10361713	6/7/21			949											
Wall 31		7/12/21	2'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 32	N,32.05734 W,103.61723	7/12/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 33	N,32.05734 W,103.61713	6/7/21			5,548											
Wall 33		7/12/21	2'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
wall 34	N,32.05722 W,103.61723	7/12/21	2'		249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 34		6/7/21			4,498											
Wall 35	N,32.05720 W,103.61714	6/7/21			2,949											
Wall 35		7/12/21	2'		249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 36	N,32.05707 W,103.61723	6/7/21			1,999											
Wall 36		6/16/21	2'		2,049											
Wall 36		7/12/21	5'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 37	N,32.05707 W,103.61712	6/7/21			3,998											
Wall 37	N 22 05 000 W 402 04 722	7/12/21	2'		249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 38	N,32.05696 W,103.61723	6/7/21	21		4,998 699											
Wall 38		6/16/21	2' 5'			10.0	10.0	-10.0	-0.200	10.050	-0.050	-0.050	-0.150	-10.0	-10.0	-10.0
Wall 38 Wall 39	N 22 05 005 W/402 04740	7/12/21	5		249 249	<16.0 <16.0	<10.0 <10.0	<10.0 <10.0	<0.300 <0.300	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0
Wall 40	N,32.05685 W103.61716 N,32.05685 W,103.61723	7/12/21 6/7/21			2,49	<10.0	<10.0	<10.0	<0.500	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
	N,32.05685 W,103.61723		2'		2,499											
Wall 40 Wall 40		6/16/21	2 2'		374	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 40 Wall 41	N,32.05684 W,103.61727	7/12/21 7/12/21	2		249	48	<10.0	<10.0	< 0.300	< 0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 42	N,32.05672 W,103.61721	6/7/21			2.399	48	<10.0	<10.0	<0.500	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 42 Wall 42	N,32.03072 W,103.01721	7/12/21	2'		2,399	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 42 Wall 42		6/16/21	2'		243	52	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 43	N,32.05672 W,103.61716	7/12/21	2		249	96	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 44	N,32.05659 W,103.61723	6/7/21			3,548	50	10.0	10.0	10.500	10.050	10.000	10.050	(0.150	10.0	10.0	10.0
Wall 44	1,52.05055 11,205.017.25	7/12/21	2'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 44		6/16/21	2'		2.0	-10.0	-2010	-2010	.0.000	.0.050	.01050	.0.050	.01200	-1010	-2010	-2010
Wall 45	N,32.05658 W,103.61716	7/12/21	_		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 46	N,32.05645 W,103.61721	6/7/21			4,248											
Wall 46	, ,	7/12/21	2'		249	128	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 47	N,32.05645 W,103.61715	6/7/21			4,198	-										
Wall 47		7/12/21	2'		249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 48	N,32.05632 W,103.61720	7/12/21	2'		3,124	80	<10.0	<10.0	<0.300	<0.050	<0.050	< 0.050	<0.150	10.0<	10.0<	10.0<
Wall 48		6/17/21	2'		374											
Wall 49	N,32.05632 W,103.61713	6/7/21			999											
Wall 49		7/12/21	2'		249	32	<10.0	<10.0	<0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
Wall 50	N,32.05621 W,103.61720	6/8/21			1,124											
Wall 50		7/12/21	2'		449	240	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
Wall 51	N,32.0521 W,103.61715	7/12/21			449	320	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.
Wall 52	N,32.05610 W,103.61722	6/8/21			949											
Wall 52		6/17/21	2'		3,898											
Wall 52		6/18/21	4'		249											
Wall 53	N,32.05609 W,103.61715	6/8/21			249											
Wall 54	N,32.05596 W,103.61720	6/8/21			6,997											
Wall 54		6/18/21	2'		249											
Wall 55		6/8/21			249											
Wall 56	N,32.05584 W,103.61720	6/8/21			3,199											
Wall 56		6/18/21	2'	I	324	I	I							I		

				Field Se	creening					Labor	atory Resul	ts				
		Sample	Sample		Titration	i		ТРН			,	Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg
Wall 57	N,32.05585 W,103.61713	6/8/21			249											
Wall 58	N,32.05572 W,103.61718	6/8/21			3,998											
Wall 58	1,02.00072 11,200.017 20	6/18/21	2'		249											
Wall 59	N,32.05573 W,103.61711	6/8/21	-		4,998											
Wall 59	1,02.00070 11,120.0017 11	6/21/21	2'		249											
Wall 60		6/8/21	-		249											
Wall 60	N32.05560 W,103.61720	6/18/21	2'		249											
Wall 61	N,32.05561 W,103.61711	6/8/21	-		249											
Wall 62	N,32.05547 W,103.61719	6/8/21			1,499											
Wall 62	14,52.05547 44,105.01715	6/18/21	2'		249											
Wall 63	N,32.05547 W,103.61713	6/8/21	-		249											
Wall 64	N,32.05534 W,103.61720	6/8/21			3,323											
Wall 64	14,52.05554 44,105.01720	6/21/21			699											
Wall 64		6/21/21	2'		249											
Wall 65	N,32.05534 W,103.61712	6/8/21	2		249											
Wall 65	14,52.05554 44,105.01712	6/21/21			249											
Wall 66	N,32.05521 W,103.61718	6/22/21			249											
Wall 67	N,32.50521 W,103.51713	6/22/21			249											
Wall 68	N,32.05508 W,103.61719	6/22/21			249											
Wall 69	N,32.05508 W,103.61713	6/22/21			249											
Wall 70	N,32.05494 W,103.61718	6/22/21			249											
Wall 70 Wall 71	N,32.05494 W,103.61713	6/22/21			249											
Wall 72	N,32.05480 W,103.61718	6/22/21			249											
Wall 73	N,32.05480 W,103.61711	6/22/21			249											
Wall 74	N,32.05466 W,103.61716	6/22/21			249											
Wall 75	N,32.05466 W,103.61711	6/22/21			249											
Wall 76	N,32.05453 W,103.61718	6/22/21			249											
Wall 77	N,32.05452 W,103.61711	6/22/21			249											
Wall 78	N,32.05440 W,103.61715	6/22/21			249											
Wall 79	N,32.05440 W,103.61710	6/22/21			999											
wall 79	N,52.05440 W,105.01710	6/24/21			4,623											
Wall 79		6/24/21	5'		2,124											
Wall 79		6/25/21	7'		2,124											
Wall 80	N,32.05428 W,103.61715	6//22/21	/		449											
Wall 81	N,32.05428 W,103.61715	6/22/21			3,248											
wall 81	14,52.05427 10,105.01705	6/24/21			4,748											
Wall 81		6/24/21	5'		3,199											
Wall 81		6/25/21	7'		3,199											
Wall 82	N,32.05415 W.103.61705	6/22/21	,		249											
Wall 83	N.32.05418 W,103.61702	6/22/21			7,247											
wall 83	N.52.05418 W,105.01702	6/24/21			1,073											
Wall 83		6/25/21	7'		249											
Wall 84	N.3205407 W.103.61698	6/23/21	,		249											
Wall 85	N,32.05406 W.103.61696	6/23/21			449											
Wall 86	N.32.05393 W.103.61698	6/23/21			249											
Wall 80 Wall 87	N.32.05393 W.103.61698	6/23/21			249 449											1
Wall 88	N.32.05378 W,103.61695	6/23/19			249											
Wall 89	N.32.05378 W,103.61694	6/23/21			249											
Wall 90	N.32.05363 W.103.61695	6/23/21			249											
Wall 90 Wall 91	N.32.05363 W,103.61694	6/23/19			249		——————————————————————————————————————									──

**Field Screening** 

Sample TPH TPH TPH Sample Titration TPH Ethyl-Total **GPS Coordinates** Location Depth PID Result Chloride Total TPH GRO + DRO BTEX GRO DRO Ext DRO Date Result Benzene Toluene benzene **Xylenes** (feet BGS) (PPM) (mg/kg) Wall 92 N,32.05350 W.103.61696 6/23/19 249 Wall 93 N.32.05351 W.103.61694 6/23/19 249 Wall 94 N,32.05339 W.103.61698 6/23/19 249 Wall 95 N,32.05339 W,103.61696 6/23/19 249 Wall 96 N,32.05326 W,103.61702 6/23/19 249 6/23/19 Wall 97 N,32.05326 W,103.61700 249 Wall 98 6/23/19 324 N,32.05312 W,103.61705 Wall 99 N,32.05312 W,103.61703 6/23/19 2,499 Wall 100 N,32.05300 W,103.61707 6/23/19 249 Wall 101 N,32.05299 W,103.61707 6/23/19 249 Wall 102 N,32.05288 W,103.61715 6/23/19 1,074 Wall 103 N,32.05286 W,103.61713 6/23/19 249 Wall 104 N,32.05274 W,103.61719 6/23/19 249 Wall 105 N,32.05274 W,103.61716 6/23/19 249 Wall 106 N,32.05260 W,103.61723 6/23/19 249 N,32.05259 W,103.61724 6/23/19 Wall 107 249 Wall 108 N,32.05247 W,103.61726 6/23/19 249 Wall 109 N,32.05247 W,103.61724 6/23/19 249 Wall 110 N,32.05225 W,103.61726 6/24/21 249 N,32.05229 W,103.61728 6/24/21 Wall 111 249 Wall 112 N,32.05218 W,103.61733 6/24/21 249 N,32.05218 W,103.61731 6/24/21 Wall 113 249 Wall 114 N,32.05205 W,103.61733 6/24/21 249 Wall 115 N,32.05204 W,103.61733 6/24/21 249 6/24/21 Wall 116 1,324 N,32.05191 W,103.61732 Wall 117 N,32.05191 W,103.61730 6/24/21 2,074 Wall 118 N,32.05178 W,103.61732 6/24/21 999 Wall 119 N,32.05178 W,103.61730 6/24/21 449 N,32.05164 W,103.61735 6/24/21 wall 120 2,999 Wall 120 7/16/21 10' 249 6/24/21 Wall 121 N,32.05165 W,103.61732 449 Wall 122 N.32.05151 W.103.61733 7/16/21 10' 249 wall 122 6/24/21 3,124 wall 123 N,32.05153 w,103.61729 6/24/21 249 wall 124 N,32.05139 W,103.61734 6/24/21 249 6/24/21 Wall 125 N,32.05139 W,103.61730 999 6/24/21 Wall 126 N,32.05126 W,103.61734 249 Wall 127 6/24/21 1,249 N,32.05125 W,103.61732 wall 128 N,32.05112 W,103.61734 7/19/21 4' 2,249 48 <10.0 <10.0 < 0.300 < 0.050 < 0.050 <0.050 < 0.150 <10.0 <10.0 <10.0 wall 129 7/19/21 4' 3,748 32 <10.0 <10.0 < 0.300 < 0.050 < 0.050 <0.050 < 0.150 <10.0 <10.0 <10.0 N,32.05113 W,103.61731 15' wall 130 N,32.05098 W,103.61731 7/19/21 1,249 112 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 Wall 131 7/19/21 2' <10.0 < 0.300 < 0.050 < 0.050 < 0.150 3,199 32 <10.0 < 0.050 <10.0 <10.0 <10.0 N,32.05099 W,103.61729 Wall 132 7/19/21 2' 32 <10.0 < 0.300 <0.050 < 0.050 <0.050 < 0.150 N,32.05067 W,103.61702 <10.0 <10.0 <10.0 <10.0 wall 133 7/19/21 2' 288 <10.0 < 0.300 < 0.050 < 0.050 <0.050 < 0.150 <10.0 <10.0 N,32.05067 W,103.61700 <10.0 <10.0 Wall 134 7/19/21 2' 32 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 < 0.300 Wall 135 7/19/21 112 <10.0 <10.0 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 Wall 136 N,32.05038 W,103.61699 Wall 137 N,32.05039 W,103.61694 Wall 138 N,32.05026 W,103.61694 Wall 139 N,32.05025 W,103.61689

Laboratory Results

Mesa B05/ Harrier Line

				Field S	creening					Labor	atory Resul	ts				
Location	GPS Coordinates	Sample	Sample		Titration			ТРН				Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth (feet BGS)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(leet BG3)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Wall 140	N,32.05013 W,103.61691	6/25/21			6,797											
Wall 141	N,32.05013 W,103.61889	6/25/21			499											
Wall 142	N,32.05002 W,103.61687	6/25/21			749											
Wall 143	N,32.05002 W,103.61684	6/25/21			249											
BS1	N,32.05898 W103.61727	7/13/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS2	N.32.05882 W.103.61726	6/2/21			249											
BS2		6/15/21			1,124											
BS3	N.32.05862 W.103.61725	6/2/21			1,074											
BS3		7/13/21			499	224	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS4	N.32.05836 W.103.61725	7/13/21	4'		624	528	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS5	N.32.05799 W.103.61723	7/13/21			249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS6	N.3205777 W.103.61720	7/13/21			249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS7	N.32.05778 W.103.61713	7/13/21			249	32	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS8		7/13/21			499	288	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS9	N,32.05707 W,103.61723	6/16/21			2,849											
BS9		6/17/21	3'		4,048											
BS9		6/17/21	4'		4,598											
BS10	N,32.05696 W,103.61723	6/16/21			4,123											
BS10		6/17/21	4'		1,199											
BS11	N,32.05685 W,103.61721	6/17/21			1,999											
BS12	N,32.05673 W,103.61722	6/17/21			3,623											
BS13	N,32.05659 W,103.61721	6/17/21			2,499											
BS14	N,32.05645 W,103.61720	6/17/21			5,498											
BS15	N,32.05632 W,103.61719	7/13/21			749	656	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS15		6/16/21	4'		3,498											
BS16	N,32.05621 W,103.61718	6/17/21			1,249											
BS16		6/16/21	4'		3,498											
BS17	N,32.05610 W,103.61720	6/17/21			6,547											
BS17		6/18/21	3'		2,624											
BS17		6/16/21	4'		3,498											
BS18		7/13/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS19	N.3205767 W.103.61713	7/13/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS20	N.32.05759 W.103.61713	7/13/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS21	N.32.05747 W,103.61714	7/13/21			249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS22	N,32.05734 W,,103.61713	6/18/21			3,249											
BS22		6/21/21	4'		2,499											
BS23	N,32.05720 W,103.61716	6/18/21			1,499											
BS23		6/21/21	4'		2,499											
BS24	N,32.05707 W,103.61713	6/18/21			1,999											
BS24		6/21/21	4'		3,748											
BS25	N,32.05645 W,103.61716	7/13/21			249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS26	N,32.05632 W,103.61714	7/13/21			249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS27	N,32.05596 W,103.61719	6/18/21			5,998											
BS28	N,32.05584 W,103.61719	6/18/21			5,248											
BS29	N,32.05572 W,103.61717	6/18/21			249											
BS30	N,32.05560 W,103.61718	6/18/21			249											
BS31	N,32.05547 W,103.61718	6/18/21			2,899											
BS32	N,.3205573 W,103.61713	6/21/21		I	249					I I			I		I	I

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				Field S	creening	1				Labor	atory Resu	ts				
		Sample	Sample		Titration	<u> </u>		TPH			,	Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS33	N,32.05534 W,103.61716	6/21/21			5,373											
BS34	N,32.05521 W,103.61716	6/22/21			2,499											
BS35	N,32.05508 W,103.61716	6/22/21			3,373											
BS36	N,32.05494 W,103.61715	6/22/21			249											
BS37	N,32.05480 W,103.61714	6/22/21			749											
BS38	N,32.05466 W,103.61413	6/22/21			1,249											
BS39	N,32.05453 W,103.61714	6/22/21			5,998											
BS40	N,32.05440 W,103.61712	6/22/21			5,498											
BS41	N,32.05428 W,103.61712	6/22/21			374											
BS42	N,32.05416 W,103.61703	6/22/21			299											
BS43	N,32.05406 W,103.61697	6/23/21			249											
BS44	N,32.05392 W,103.61697	6/23/21			249											
BS45	N,32.05378 W,103.61695	6/23/21			249											
BS46	N,32.05364 W,103.61695	6/23/21			249											
BS47	N,32.05339 W,103.61695	6/23/21			1,374											
BS48	N,32.05338 W,103.61698	6/23/21			2,949											
BS49	N,32.05326 W,103.61700	6/23/21			1,249											
BS50	N,32.05312 W,103.61705	6/23/19			324											
BS51	N,32.05300 W,103.61708	6/23/19			249											
BS52	N,32.05287 W,103.61714	6/23/19			249											
BS53	N,32.05274 W,103.61718	6/23/19			374											
BS56		6/24/21			249											
BS57		6/24/21			249											
BS58		6/24/21			374											
BS59		6/24/21			249											
BS60		6/24/21			249											
BS61		6/24/21			449											
BS62		6/24/21			4,373											
BS63		6/24/21			249											
BS64		6/24/21			249											
BS65		6/24/21			4,448											
BS66		7/19/21			549	336	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS67		7/19/21			3,199	288	<10.0	<10.0	<0.300	< 0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS68		7/19/21				352	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS69	N,32.05038 W,103.61697															
BS70	N,32.05026 W,103.61692	5 /05 /04			6 0 7 0											
BS71	N,32.05014 W,103.61691	6/25/21			6,872											
BS72	N,32.05002 W,103.61685	6/25/21			2,249											
BS73	N,32.05915 W,103.61723	6/25/21			1,149	252	<10.0	<10.0	<0.200	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS74 BS75	N,32.05898 W,103.61723	7/13/21			549 240	352	<10.0	<10.0	<0.300	<0.050 <0.050	< 0.050	<0.050	<0.150 <0.150	<10.0 <10.0	<10.0	<10.0
BS75 BS76	N,32.05883 W,103.61726	7/13/21			249 249	<16.0 48	<10.0	<10.0 <10.0	<0.300 <0.300	<0.050 <0.050	<0.050 <0.050	<0.050	<0.150 <0.150	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0
BS76 BS77	N,32.05867 W,103.61724	7/13/21 7/13/21			249 374	48 288	<10.0 <10.0	<10.0 <10.0	<0.300 <0.300	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0
BS77 BS78	N,32.05853 W,103.61724 N,32.05842 W,103.61726	6/25/21				200	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS78 BS79					5,373 1,949											
BS80	N,32.05832 W,103.61724	6/25/21 7/13/21			1,949 449	128	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS80 BS81	N,32.05819 W,103.61724 N,32.05808 W,103.61723	7/13/21			249 249	128 <16.0	<10.0 <10.0	<10.0 <10.0	< 0.300	<0.050	<0.050	<0.050 <0.050	<0.150 <0.150	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0
BS81 BS82					249 7,997	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS82 BS83	N,32.05798 W,103.61723	6/25/21														
BS84	N,32.05788 W,103.61720	6/25/21			2,799											
0384	N,32.05772 W,103.61720	6/25/21	I	1	6,497	I	I I		I	I	I	I	1	I	I	ı I

				Field S	creening					Labor	atory Resul	ts				
		Sample	Sample		Titration			ТРН			,	Ethyl-	Total	ТРН	TPH	TPH
Location	GPS Coordinates	Date	Depth	PID Result		Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	, benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS85	N,32.05762 W,103.61720	6/25/21			8,047											
BS86	N,32.05753 W,103.61720	6/25/21			5,948											
BS87	N,32.05742 W,103.61720	6/25/21			6,023											
BS88	N,32.05729 W,103.61720	6/25/21			9,322											
BS89	N,32.05716 W,103.61720	7/13/21			374	208	<10.0	<10.0	<0.300	<0.050	<0.050	< 0.050	<0.150	<10.0	<10.0	<10.0
BS90	N,32.05709 W,103.61720	7/13/21			449	240	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
BS91	N,32.05691 W,103.61721	6/25/21			3,423											
BS92	N,32.05679 W,103.61720	6/25/21			3,423											
BS93	N,32.05667 W,103.61720	6/25/21			4,098											
BS94	N,32.05653 W,103.61719	6/25/21			2,624											
BS95	N,32.05641 W,103.61718	6/25/21			5,623											
BS96	N,32.05627 W,103.61716	6/25/21			4,373											
BS97	N,32.05617 W,103.61716	6/25/21			6,248											
BS98	N,32.05606 W,103.61716	6/25/21			7,497											
BS99	N,32.05591 W,103.61716	6/25/21			7,497											
BS100		6/25/21			6,375											
BS101		6/25/21			249											
BS102		6/25/21			4,373											
BS103		6/25/21			249											
		c /c /c 1														
SP36NW		6/9/21 6/9/21			249											
SP36SW					1,699											
SP36EW SP36WW		6/9/21			249 249											
SP36SW		6/9/21 6/9/21	5'		249 2,874											
SP36SW		6/10/21	20'		2,074											
SP40NW		6/10/21	5'													
SP40NW		6/9/21	5		2,149											
SP40SW		6/9/21			249											
SP40EW		6/9/21			374											
SP40WW		6/9/21			249											
SP43SW		6/9/21	5'		624											
SP43SW		6/21/21	10'		3,923											
SP43SW		6/21/21	15'		4,573											
SP43SW		6/21/21	25'													
SP43NW		6/9/21			374											
SP43SW		6/9/21			3,174											
SP43EW		6/9/21			249											
SP43WW		6/9/21			249											
SP45NW		6/9/21			499											
SP45SW		6/9/21			249											
SP45EW		6/9/21			2,749											
SP45EW		6/9/21	5'		249											
SP45WW		6/9/21			374											
SP47NW		6/9/21			249											
SP47SW		6/9/21			374											
SP47EW		9/9/21			249											
SP47WW		9/9/21			249											
SP49NW	1	6/10/21		I	249	I	I I		I	I	I	l	I	I	I	l

		1		Field S	creening					Labor	atory Resul	ts				
		Sample	Sample		Titration			ТРН				Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth	PID Result		Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
		Dute	(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP49SW		6/10/21		, ,	624											
SP49SW		6/21/21	5'		749											
SP49SW		6/21/21	10'		249											
SP49EW		6/10/21	-		374											
SP49WW		6/10/21			249											
SP51NW		6/10/21			2,999											
SP51NW		6/10/21			4,998											
SP51NM		6/10/21	15'		249											
SP51SW		6/10/21			999											
SP51EW		6/10/21			249											
SP51WW		6/10/21			4,323											
SP51WW		6/10/21	2'		1,149											
SP51WW		6/10/21	8'		374											
SP51Botto		6/10/21	_		874											
		-, -,			-											
SB1	N.32.0594 W103.61716	5/11/21	surf		23,367											
SB1		5/11/21	1'		474											
SB1		5/11/21	2'		224											
SB1		5/11/21	3'		224											
SB1		5/11/21	4'		224	32	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB2	N.32.05876 W103.61827	5/11/21	surf		799											
SB2		5/11/21	1'		3,823											
SB2		5/11/21	2'		3,998											
SB2		5/11/21	3'		1,074											
SB2		5/11/21	4'		374	176	<10.0	<10.0	< 0.300	< 0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB3	N.3205865 W103.61827	5/11/21	surf		2,249											
SB3		5/11/21	1'		3,498											
SB3		5/11/21	2'		5,748											
SB3		5/11/21	3'		449											
SB3		5/11/21	4'		449	208	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB4	N.32.05872 W-103.61787	5/11/21	surf		374											
SB4		5/11/2021	1'		374											
SB4		5/11/2021	2'		374											
SB4		5/11/21	3'		299											
SB4	Ĩ	5/11/21	4'		299	176	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB5	N.32.05849 W-103.61786	5/11/21	surf		249											
SB5		5/11/21	1'		249											
SB5		5/11/21	2'		374											
SB5		5/11/21	3'		374											
SB5		5/11/21	4'		374	192	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB6	N.32,05948 W103.61665	5/11/21	surf		249											
SB6		5/11/21	1'		249											
SB6		5/11/21	2'		249											
SB6		5/11/21	3'		249											
SB6		5/11/21	4'		249	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB7	N.32,05928 W,-103.61652	5/11/21	surf		249											
SB7		5/11/21	1'		249											
SB7		5/11/21	2'		249											
SB7		5/11/21	3'		249	<16.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0

Mesa B05/ Harrier Line

				Field So	reening					Labor	atory Resul	ts				
		Sample	Sample		Titration			ТРН			,	Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth (fact BCC)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB8	N.32.05920 W,-103.61720	5/11/21	surf		3,948											
SB8		5/11/21	1'		4,173											
SB8		5/11/21	2'		1,249											
SB8		5/11/21	3'		549											
SB8		5/11/21	4'		1,424	1,150	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB8		5/12/21	5'		1,574											
SB8		5/12/21	6'		1,674											
SB8		5/12/21	7'		3,548											
SB8		5/12/21	8'		3,548											
SB8		5/12/21	9'		2,249											
SB8		5/12/21	10'		1,249											
SB8		5/12/21 5/12/21	11' 12'		1,124											
SB8 SB8		5/12/21	12		699 574											
SB8		5/12/21	13		449											
SB8		5/12/21	14		374	208	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB9	N.32.05783	5/11/21	surf		12,871	200	10.0	10.0	\$0.500	<0.050	<0.050	<0.050	<b>\0.150</b>	10.0	10.0	10.0
SB9	1102103703	5/11/21	1'		5,748											
SB9		5/11/21	2'		2,874											
SB9		5/11/21	3'		2,749											
SB9		5/11/21	4'		3,199	4,480	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB9		5/12/21	5'		3,873	,										
SB9		5/12/21	6'		4,997											
SB9		5/12/21	7'		2,499											
SB9		5/12/21	8'		1,574											
SB9		5/12/21	9'		1,224											
SB9		5/12/21	10'		949											
SB9		5/12/21	11'		699											
SB9		5/12/21	12'		549											
SB9		5/12/21	13'		1,049											
SB9		5/12/21	14'		749											
SB9		5/12/21	15'		449											
SB9		5/12/21	16'		374	224	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB10	N.32.05602 W.103.61717	5/11/21	surf		19,418											
SB10		5/11/21	1'		4,573											
SB10		5/11/21	2'		2,824											
SB10 SB10		5/11/21 5/11/21	3' 4'		2,749 1,624	1,310	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB10 SB10		5/11/21	4 5'		999	1,510	×10.0	<10.0	<u>\0.500</u>	×0.050	L0.050	<u>\0.050</u>	~0.150	×10.0	×10.0	~10.0
SB10 SB10		5/12/21	5 6'		999 1,974											
SB10		5/12/21	7'		499											
SB10 SB10		5/12/21	8'		499											
SB10 SB10		5/12/21	9'		249	64	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB10 SB11	N.3205426 W.103.61711	5/11/21	surf		16,569											
SB11 SB11		5/11/21	1'		4,748											
SB11		5/11/21	2'		3,074											
SB11		5/11/21	3'		949											
SB11		5/11/21	4'		499	208	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB11		5/12/21	5'		1,799											
SB11		5/12/21	6'		874											
				-			-						-			-

Field Screening

Sample TPH TPH Titration TPH TPH Sample Ethyl-Total Location **GPS Coordinates** Depth PID Result Result Chloride Total TPH GRO + DRO BTEX Benzene Toluene benzene Xylenes GRO DRO Ext DRO Date (feet BGS) (PPM) (mg/kg) SB11 5/12/21 7' 499 < 0.300 SB11 5/12/21 8' 449 256 <10.0 <10.0 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 SB12 5/12/21 surf 7,872 N.32.05311 W.103.61706 SB12 5/12/21 1' 8,697 2' SB12 5/12/21 1,349 SB12 5/12/21 3' 449 SB12 5/12/21 4' 374 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 <0.150 <10.0 <10.0 <10.0 96 SB12 5/12/21 5' 374 6' SB12 5/12/21 374 SB13 5/12/21 15.945 N.3205238 W.103.61633 surf SB13 5/12/21 1' 4,748 SB13 5/12/21 2' 4.998 SB13 5/12/21 3' 4,998 4' <10.0 < 0.300 SB13 5/12/21 5,748 5,200 <10.0 < 0.050 < 0.050 < 0.050 <0.150 <10.0 <10.0 <10.0 5' SB13 5/12/21 4,748 SB13 5/12/21 6' 2.249 7' SB13 5/12/21 999 SB13 5/12/21 8' 2,249 SB13 5/12/21 9' 749 SB13 5/12/21 10' 624 SB13 5/12/21 11' 499 SB13 5/12/21 12' 449 SB13 5/12/21 13' 324 272 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 SB14 N.32.05271 W.103.61667 5/12/21 surf 249 SB14 5/12/21 1' 249 2' SB14 5/12/21 249 SB14 5/12/21 3' 249 SB14 5/12/21 4' 249 32 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 <0.150 <10.0 <10.0 <10.0 SB15 5/13/21 1,374 N.32.05228 W.103.61731 surf SB15 5/13/21 1' 449 2' SB15 5/13/21 249 SB15 5/13/21 3' 249 32 <10.0 <10.0 < 0.300 < 0.050 < 0.050 <0.050 < 0.150 <10.0 <10.0 <10.0 SB16 N.32.05100 W.103.61720 5/13/21 surf 13,995 SB16 5/13/21 1' 4,498 SB16 5/13/21 2' 2.874 SB16 5/13/21 3' 949 SB16 5/13/21 4' 949 816 <10.0 <10.0 < 0.300 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 <10.0 SB16 5/13/21 5' 624 SB16 5/13/21 6' 1,124 7' SB16 5/13/21 1,374 SB16 5/13/21 8' 2.124 SB16 5/13/21 9' 2,249 SB16 5/13/21 10' 1,874 SB16 5/13/21 11' 1,499 SB16 5/13/21 12' 1,499 SB16 5/13/21 13' 1,499 SB16 5/13/21 14' 1,499 SB16 5/13/21 15' 999 SB16 5/13/21 16' 749 720 <10.0 <10.0 <0.300 <0.050 < 0.050 <0.050 <0.150 <10.0 <10.0 <10.0 7,497 SB17 5/13/21 surf N.3205050

Laboratory Results

				Field S	creening					Labor	atory Resul	ts				
		Sample	Sample		Titration			TPH				Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB17		5/13/21	1'		5,948											
SB17	Ĩ	5/13/21	2'		8,897											
SB17		5/13/21	3'		2,624											
SB17		5/13/21	4'		1,749	1,520	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB17		5/13/21	5'		2,499											
SB18	N,32.05011 W.103.61691	5/13/21	surf		41,986											
SB18		5/13/21	1'		8,372											
SB18		5/13/21	2'		10,496											
SB18		5/13/2021	3'		7,622											
SB18		5/13/2021	4'		1,499	1,380	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB18		5/13/2021	5'		799											
SB19	N.32.04985 W.103,61696	5/13/2021	1'		199	48	<10.0	<10.0	<0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SB20			1,		249	64	<10.0	<10.0	< 0.300	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0	<10.0
SS3Botto		6/16/2021			249											
SS3NW		6/16/2021			249											
SS3SW		6/16/2021			249											
SS3WW		6/16/2021			249											
SS3EW		6/16/2021			4,498											
SS3EW		6/16/2021	5'		249											
SS16EW		6/15/2021			699											
SS16EW		6/15/2021	2'		246											
SS16WW		6/15/2021	2'		249											
SS18EW		6/15/2021			4,748											
SS18EW		6/15/2021	2'		4,123											
SS18EW		6/15/2021	5'		699											
SS18WW		6/15/2021			249											
SS28EW		6/15/2021			249											
SS28WW		6/15/2021	2'		2,699											
SS28WW		6/15/2021	2'		3,948											
SS28SW		6/15/2021			2,499											
SS28SW		6/15/2021	20'		3,498											
SS35		7/16/2021	4'		6,547											
SS36SW		6/22/2021	4'		3,248											
SS36WE		6/22/2021	100'		749											
SS40NW		6/22/2021	10'		1,499											
SS40NW		6/22/2021	20'		4,223											
	I	I		<b>I</b>					I	I					I	

NMOCD Table 1 - Closure Criteria for Soils Impacted by a Release (19.15.29.12)

Minimum Depth to GW less than 10,000 mg/l TDS

<= 50'	600	100	-	50	10
51' - 100'	10,000	2,500	1,000	50	10
>100'	20,000	2,500	1,000	50	10

### **Reporting Limits:**

Chloride: 16.0 mg/kg Benzene, Toluene, Ethylbenzene: 0.050 mg/kg for each analyte Total Xylenes: 0.150 mg/kg Total BTEX: 0.300 mg/kg

## Received by OCD: 12/20/2021 2:48:21 PM

NAME OF Location & Release date OCD TRACKING #

			Sample	Field S	creening					Labor	atory Resul	ts				
Location	GPS Coordinates	Sample			Titration			TPH				Ethyl-	Total	TPH	TPH	TPH
Location	GPS Coordinates	Date	Depth (feet BCS)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

Mesa B05/ Harrier Line

GRO (C6 - C10), DRO (>C10 - C28), Ext DRO (>C28 - C36): 10.0 mg/kg for each analyte
NAME OF Location & Release date OCD TRACKING #

			Sample	Field Se	creening					Labor	atory Resul	ts									
Location	CDC Coordinator	Sample			Titration			TPH				Ethyl-	Total	TPH	TPH	TPH					
Location	GPS Coordinates	Date	Depth (fact BCC)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	e Xylenes GRO	DRO	Ext DRO						
		(fee	(feet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)					

Mesa B05/ Harrier Line

NAME OF Location & Release date OCD TRACKING #

			Samula	Field Se	creening					Labor	atory Resul	ts								
Location	GPS Coordinates	Sample Sample	Titration			TPH				Ethyl-	Total	TPH	TPH	TPH						
Location	GPS Coordinates	Date	Depth (feet BGS)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes GRO	DRO	Ext DRO					
		(feet	(leet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				

Mesa B05/ Harrier Line



May 29, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 05/27/20 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 1 @ 1' (H001440-01)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46000	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 1 @ 1.5' (H001440-02)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 2 @ 1' (H001440-03)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46400	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 2 @ 1.5' (H001440-04)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 3 @ 1' (H001440-05)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 3 @ 1.5' (H001440-06)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37600	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 4 @ 1' (H001440-07)

Chloride, SM4500Cl-B mg/		kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 4 @ 1.5' (H001440-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Sample ID: SP 5 @ 1' (H001440-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72800	16.0	05/28/2020	ND	384	96.0	400	4.08	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 5 @ 1.5' (H001440-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/28/2020	ND	384	96.0	400	0.00	QM-07

### Sample ID: SP 6 @ 1' (H001440-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 6 @ 1.5' (H001440-12)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 7 @ 1' (H001440-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 7 @ 1.5' (H001440-14)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	106000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 8 @ 1' (H001440-15)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 8 @ 1.5' (H001440-16)

Chloride, SM4500CI-B	Analyze	nalyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 9 @ 1' (H001440-17)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 9 @ 1.5' (H001440-18)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 10 @ 1' (H001440-19)

Chloride, SM4500Cl-B	mg/	′kg	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 10 @ 1.5' (H001440-20)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 11 @ 1' (H001440-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 11 @ 1.5' (H001440-22)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	62400	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 12 @ 1' (H001440-23)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41200	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 12 @ 1.5' (H001440-24)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 13 @ 1' (H001440-25)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43600	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 13 @ 1.5' (H001440-26)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 14 @ 1' (H001440-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 14 @ 1.5' (H001440-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	05/28/2020	ND	384	96.0	400	0.00	

### Sample ID: SP 15 @ 1' (H001440-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	05/28/2020	ND	384	96.0	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

### Sample ID: SP 15 @ 1.5' (H001440-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43600	16.0	05/29/2020	ND	416	104	400	3.77	QM-07

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

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 SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Laboratories 101 East Marland, Hobbs, NM 88240

Page 84 of 203

Page 10 of 12

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Project #: Phone #: Project Manager: Project Name: Company Name: PLEASE NOTE: Lic analyses, All claims Sampler Name: Project Location: Address: Relinquished By Relinquished By service. In no event shall Cardinal be liable for incidental or con Sampler - UPS 400/440 FOR LAB USE ONLY Lab I.D. Delivered By: (Circle One) RW 6 50.40 900000 -ge-1 Sr.50 (575) 393-2326 FAX (575) 393-2476 Bus - Other: Meser STA Michae 0 regligence and any other ca Samples Sample I.D. -50 Ívi: E in En 20 个 Project Owner: Fax #: Time:420 5.10 State: Date: Time: 5-27-26 1:51 Samples 北辺 Zip: Received By: (G)RAB OR (C)OMP. Received By: # CONTAINERS Lear CON GROUNDWATER Sample Condition Cool Intact WASTEWATER made in writing and ness inte MATRIX XXXXXXXX SOIL X x OIL SLUDGE P.O. #: City: , loss of use, or loss of profits incurred by client, its subsidiaries State: Phone #: Address: Attn: Dob Hart Company: GTA OTHER Fax #: PRESERV ACID/BASE: VARXXXX ICE / COOL XXX CHECKED BY: BILL TO (Initials) OTHER : Zip: DATE C 26 20 SAMPLING dizz 00200 4:45 9130 Phone Result: Fax Result: REMARKS: 01:00 01:30 9:35 10:05 10:15 TIME bhall @ btocoil.com michael o expertensivoservices.com tion of the applicable X XΧ 9 X x x X X □ Yes No No ANALYSIS Add'l Phone #: Add'l Fax #: REQUEST

### Received by OCD: 12/20/2021 2:48:21 PM

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### Laboratories

Page 85 of 203

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 H	FAX (3/3) 393-24/0			
Company Name: SA		BILL TO	ANALTSIS REQUEST	
Project Manager:		P.O. #:		
Address:	i.	Company: (STA	2	
City:	State: Zip:	Attn: Bob Hall		0
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:	mplus + 105 samples	State: Zip:		
Project Location: Mesa	B 005	Phone #:		
	N.	1		
FOR LAB USE ONLY		PRESERV. SAMPLING		
Lab I.D. Sample I.D.	AB OR (C)OM DNTAINERS DUNDWATER STEWATER	DGE IER : D/BASE: / COOL IER :		-
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PLEASE NOTE: Liability and Domages, Cardinal's liabilit analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for incidental	PLEASE NOTE: Liability and Danages. 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 feed for the applicable analyses. All takins 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 analyses. All takins 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 analyse. In no event shall be liable for incidential or consequential damages, including without limitation, business interruptions, less of use, or less of profits neuror by action is subsidiaries, service. In no event shall be liable for incidential or consequential damages, including without limitation, business interruptions, less of use or less of profits neuror by action of the spectrum of the applicable of the spectrum of the applicable and the spectrum of the applicable for incidential or consequential damages. Including without limitation, business interruptions, less of use, or less of profits neuror by actions stated researce of otherwise.	tract or tort, shall be limited to the amount paid by the client for the g and received by Cardinal within 30 days after completion of the appl energy loss of use, or loss of profils incurred by client. Its subsidiaries, man is based unce out of the above statist response to otherwise.	licable	
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Sampler - UPS - Bus - Other:	Sile ANS Has These	No T.		

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### Page 86 of 203 Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	RTA I		RII TO		ANALYSIS REDUEST	-
Project Manager:	1.01		P.O. #:			
Address:			Company: BJA			
City:	State:	Zip:	Attn: Bob Hall			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:		City:	*		
Project Name:			State: Zip:			
Project Location:	Mesa 0 005		Phone #:			,
Sampler Name:	AN		Fax #:		-	
FOR LAB USE ONLY	Q	2. MATRIX	PRESERV. SAMPLING	6		
Lab I.D.	Sample I.D.	OR (C)OMP AINERS IDWATER WATER E	ASE: DOL			
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29 24	13011	5 00 	× ×	100		
PLEASE NOTE: Liability and Damag analyses. All claims including those service. In an event shall Cardioat b	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 nagiones and any other cause whatloever shall be diented unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. All claims including those for nagiones and any other cause whatloever shall be diented unless made in writing and received by Cardinal within 30 days after completion of the applicab analyses. All claims including those for nagiones and any other cause whatloever shall be diented unless made in writing and received by Cardinal within 30 days after completion of the applicab escole in one work that for the liability and client or rencompletion damagnes, including without limitation hustness internations less of use of taxed to profix incurred by client. Its subsidiaries	any claim arising whether based in contract referred waived unless made in writing and in without limitation, business interruptions, I	or tort, shall be limited to the amount paid received by Cardinal within 30 days after r cass of use or loss of profils incurred by cliv	by the client for the completion of the applicable ent its subsidiaries.		
affiliates or successors arising out of or related to the performance of Relinquished By:		Date: Received, By:</td <td>upon any of the above stated rear</td> <td></td> <td></td> <td></td>	upon any of the above stated rear			
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June 04, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 06/03/20 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland T>	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	06/03/2020			Sampling Date:	06/02/2020
Reported:	06/04/2020			Sampling Type:	Soil
Project Name:	MESA B 05			Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES			Sample Received By:	Kelly Jacobson
Project Location:	LEA CO				

### Sample ID: SP 1 @ 2' (H001497-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 2 @ 2' (H001497-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 3 @ 2' (H001497-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 4 @ 2' (H001497-04)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	06/03/2020	ND	432	108	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Prod BOB HALL 103 South Pe Midland TX, Fax To:	ecos		
Received:	06/03/2020			Sampling Date:	06/02/2020
Reported:	06/04/2020			Sampling Type:	Soil
Project Name:	MESA B 05			Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES			Sample Received By:	Kelly Jacobson
Project Location:	LEA CO				

### Sample ID: SP 5 @ 2' (H001497-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 6 @ 2' (H001497-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 7 @ 2' (H001497-07)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 8 @ 2' (H001497-08)

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 9 @ 2' (H001497-09)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	06/03/2020	ND	432	108	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX,	Pecos		
		Fax To:	(432) 683-0312		
Received:	06/03/2020			Sampling Date:	06/02/2020
Reported:	06/04/2020			Sampling Type:	Soil
Project Name:	MESA B 05			Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES			Sample Received By:	Kelly Jacobson
Project Location:	LEA CO				

### Sample ID: SP 10 @ 2' (H001497-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	06/03/2020	ND	432	108	400	0.00	

### Sample ID: SP 11 @ 2' (H001497-11)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	59200	16.0	06/03/2020	ND	416	104	400	3.77	QM-07	

### Sample ID: SP 12 @ 2' (H001497-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	06/03/2020	ND	416	104	400	3.77	

### Sample ID: SP 13 @ 2' (H001497-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	51200	16.0	06/03/2020	ND	416	104	400	3.77	

### Sample ID: SP 14 @ 2' (H001497-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	06/03/2020	ND	416	104	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	06/03/2020	Sampling Date:	06/02/2020
Reported:	06/04/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

### Sample ID: SP 15 @ 2' (H001497-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	06/03/2020	ND	416	104	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Project Manager: Rob Hall	P.O. #:			
Address:	Company:	INY: BTA		24
State:	Zip: Attn:	Bob Haul		
Phone #: Fax #:	Address:	S:		
Project #: Project Owner:	city:			2
ame: 2' Samples	State:	Zip:		2
on: Mesc	Phone #:	#	k.	12
Sampler Name:	Fax #:		,	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		3
Lab I.D. Sample I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER : ACID/BASE:			
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Delivered By: (Circle One) _ [ , 8°. Sampler - UPS - Bus - Other:	HII3 Cool Intact	CHECKED BY: (Initials)		

4

### Page 93 of 203 of 8 Page 7 J õ **Dratories**

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Britler insage:     Britler To     ANALYSIS RECUEST       Police insage:     Forzit     Company:     STA       City:     Forzit     Forzit     Company:     STA       Police insage:     Forzit     Forzit     Company:     STA       Police insage:     Forzit     Forzit     Company:     STA       Police insage:     Forzit     Forzit     Company:     State:       Police insage:     Forzit     Company:     State:     Zio:       Police insage:     Forzit     State:     Zio:     State:     Zio:       Police insage:     Forzit     State:     State:     Zio:     State:       Line insage:     Company:     Forzit     State:	Pleable	Circle One) -1, 82
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Bull TO     BILL TO       State:     Zip:       Fax #:     Froject Owner:       Fax #:     Address:       Project Owner:     City:       State:     Zip:       Address:     Project Owner:       City:     State:       Zip:     Address:       Project Owner:     City:       State:     Zip:       Address:     Project Owner:       City:     State:       Zip:     Address:       Project Owner:     City:       State:     Zip:       Address:     Project Owner:       City:     State:       State:     Zip:       Phone #:     Project Owner:       City:     Project Owner:       C		INT Time:
Built TO     BILL TO     AMALYSIS       State:     Zip:     Company:     STA       Fax#:     Zip:     Address:     Company:     STA       Fax#:     Zip:     Address:     Company:     STA       Fax#:     Zip:     Address:     Company:     STA       Fax#:     Company:     STA     Address:     Company:     STA       Fax#:     Company:     STA     Address:     Company:     STA       Fax#:     Company:     State:     Zip:     Phone #:     Fax#:     Fax#:       Fax#:     Company:     State:     Zip:     Phone #:     Fax#:     Fax#:       Sample I.D.     BOR (C)OMP.     MATROX     PRESERV     SAMPLING     Fax#:       Fax#:     Company:     State:     Zip:     Fax#:     Fax#:     Fax#:       Sample I.D.     BOR (C)OMP.     MATROX     PRESERV     SAMPLING     Fax#:     Fax#:       Fax#:     GROUNDWATER     MATROX     PRESERV     SAMPLING     Fax#:     Fax#:       Sample I.D.     GROUNDWATER     MATROX     PRESERV     SAMPLING     Fax#:	Plicablo	01 0.10
BTA     State:     Zip:     Company:     ISTA       Fax #:     Frojeti Owner:     Company:     ISTA       Fax #:     Projeti Owner:     City:     Satte:     Zip:       N:     Aut.     Sitte:     Zip:     Satte:     Zip:       N:     Aut.     Sitte:     Zip:     Satte:     Zip:       N:     Aut.     Sitte:     Zip:     Phone #:     Phone #:       Pio.     Pio.     Pio.     Pio.     Pio.       Satte:     Zip:     Pio.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Pio.     Pio.       VIII © Zi     Qip:     Viii @ Out.     Viii @ Out.     Viii @ Out.       VIII © Zi     Qip:		ervice. In no event shall Gardinal be liable for Incidental or consequential damages including wither Inflates or surcessors satisfing out of or related to the performance of services hereunder by Gardine <b>Section unished Ry</b> .
Built TO     Analysis       Bob Hull     State:     Zip:       Fax#:     Fax#:     Fax#:       Fax#:     Fax#:     Attm:       Forpiet Owner:     Company:     STA       Attm:     Company:     State:       Coll     Coll     State:       Studge     Other:     Preserve       ActioNasse:     Preserve     Same       ActioNasse:     Preserve       ActioNasse:     Preserve<	GROU WASTI X X X X SOIL OIL SLUDO OTHER ACID/E X X X X X ICE / C OTHER CONTER C	LEASE NOTE: Liability and Damages. Condinat's liability and client's exclusive remedy for any cla nalyses. All claims including those for negligence and any other cause wholsoever shall be deems
Bitt To     Analysis       Bob Hull     State:     Zip:       Sample I.D.     Fax #:     Zip:       Fax #:     Zi S G, Zi       Atm:     Bob Hull       Fax #:     Zi S G, Zi       Fax #:     Zi S G, Zi       Sample I.D.     GROUNDWATER       MATRIX     Fax #:       Fax #:     Fax #:       Fax #:     Company:       State:     Zip:       Atm:     Bob Hull       Fax #:     Fax #:       Fax #:     Fax #: </td <td>GROU WASTI XXXXX OIL OIL SLUDO OTHEF ACID/E ACID/E CONTHEF CON</td> <td></td>	GROU WASTI XXXXX OIL OIL SLUDO OTHEF ACID/E ACID/E CONTHEF CON	
Bill To     Analysis       Bill To     Analysis       State:     Zip:       Fax #:     Project Owner:       Project Owner:     Company:       Fax #:     Address:       Project Owner:     City:       Address:     Zip:       Address:	GROU WASTI X X X X X SOIL OIL SLUDO OTHEF ACID/E X X X X X ICE / C OTHEF X X X X X ICE / C OTHEF X X X X X X ICE / C OTHEF X X X X X X X X X X X X X X X X X X X	
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Bob     Hull     State:     Zip:     Ath:     Company:     STA       Fax #:     Project Owner:     Fax #:     Company:     STA       Fax #:     Project Owner:     City:     Ath:     Address:       Fax #:     Company:     STA     Address:       MATRX     PRESERV     State:     Zip:       MATRX     PRESERV     State:     Zip:       MATRX     PRESERV     State:     Zip:       Phone #:     Phone #:     Phone #:     Phone #:       WASTEWATER     MATRX     PRESERV     Samplus       OIL     SLUDGE     OTHER :     DATE     TIME       VALYSE     OTHER :     DATE     TIME     CL       VALYSE     VALYSE     VALYSE     VALYSE	GROU WASTI X X X X SOIL OIL SLUDC OTHEF ACID/E X X X X ICE / C OTHEF	SUISOL
Bitt To     Analysis       Bob Hull     State:     Zip:       Sample I.D.     Forject Owner:     Forject Owner:       Project Owner:     Project Owner:     Company:       Project Owner:     Z'S GAMPIA     Attn:       Project Owner:     City:     Attn:       Project Owner:     City:     State:     Zip:       Attn:     Bob Hull     Fax #:     Phone #:       Phone #:     Phone #:     Phone #:       Project / COOL     OIL     Phone #:       OIL     OIL     DATE     TIME       ACID/BASE:     Phone #:     Phone #:       Y CONTAINERS     DATE     TIME       Y CONTAINERS     DATE     TIME       Y COLL     OIL     NATE       Y COLL     DATE     TIME       Y COLL     Y     Y	GROU WASTI X X X SOIL OIL SLUDC OTHEF ACID/E Y X X ICE / C OTHEF	Sp. IN Q Z
Bill To     Analysis       Bob Hall     State:     Zip:     Attn:     Company:     ETA       Fax #:     Project Owner:     Attn:     Bob Hall     Fax #:     Company:     ETA       Fax #:     Project Owner:     Attn:     Bob Hall     Attn:     Bob Hall     Fax #:     Company:     ETA       Fax #:     Project Owner:     Z'S Grap Pass     Attn:     Bob Hall     Hall     Hall     Hall     Hall       Fax #:     Project Owner:     Z'S Grap Pass     Bob Hall     H	Image: state	S. 13 @ 2'
Bill To     ANALYSIS       Bob Hull     State:     Zip:     Attn:     Company:     STA       Fax#:     Fax#:     Zip:     Attn:     Sold     Attn:     Sold       Fax#:     Fax#:     Company:     STA     Attn:     Sold     Attn:     Sold       GROUNDWATER     MATRX     PRESERV.     Sold     Sold     Fax #:     Fax #:     Fax       OIL     SLDGE     OTHER:     ACID/BASE:     Fax #:     Fax     Fax       V ICE / COOL     OTHER:     DATE     TIME     Cu     Attn:     Sold       ACID/BASE:     Fax #:     Fax     Fax     Fax     Fax     Fax	GROU WASTI SOIL OIL SLUDC OTHEF ACID/E ACID/E C ACID/E T ACID/E	A-12@ 2'
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Bob     Hall     P.O. #:     P.O. #:     P.O. #:       State:     Zip:     Company:     STA       Fax #:     Zip:     Attn:     Bob       Project Owner:     Address:     Address:       Project Owner:     City:     State:     Zip:       Version B OT     Version Project     State:     Zip:       M. Alux     State:     Zip:     Fax #:       M. Alux     Version Presserv!     Sampling	NDWAT EWATEF GE R : BASE: COOL	Sample I.D.
BLL TO     ANALYSIS       Bob Hull     P.O. #:       State:     Zip:       Fax #:     Attn:       Project Owner:     Address:       Project Owner:     City:       Z'S and PleA     State:       Z'S and PleA     State:       M. Alux     PRESERVI SAMPLING	ER 3	30
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BILL TO     ANALYSIS       Bob     Hall       State:     Zip:       Fax #:     Attn:       Project Owner:     Address:       Project Owner:     City:       State:     Zip:	Phone #:	n: Mesor B
BILL TO     ANALYSIS       Bob     Hc.II     P.O. #:       State:     Zip:     Company:       Fax #:     Attn:     Bob       Project Owner:     City:	State:	A hard and and and and and and and and and an
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BILL TO ANALYSIS BOD Hall State: Zip: Attn: BOD Hall	Address:	
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	TO ANALYSIS	BI

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aboratories

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Released to Imaging: 1/14/2022 8:08:22 AM



June 16, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 06/12/20 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

### Sample ID: SP 1 @ 3' (H001571-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 1 @ 4' (H001571-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 2 @ 3' (H001571-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 2 @ 4' (H001571-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/15/2020	ND	448	112	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

### Sample ID: SP 3 @ 3' (H001571-05)

Chloride, SM4500CI-B	mg/	′kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	102000	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 3 @ 4' (H001571-06)

Chloride, SM4500Cl-B	Analyze	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 4 @ 3' (H001571-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 4 @ 4' (H001571-08)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15300	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 6 @ 3' (H001571-09)

Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	117000	16.0	06/15/2020	ND	448	112	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

### Sample ID: SP 6 @ 4' (H001571-10)

Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	120000	16.0	06/15/2020	ND	448	112	400	0.00	

### Sample ID: SP 7 @ 3' (H001571-11)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	124000	16.0	06/15/2020	ND	432	108	400	3.77	QM-07

### Sample ID: SP 7 @ 4' (H001571-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 8 @ 3' (H001571-13)

Chloride, SM4500Cl-B	OCI-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	137000	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 8 @ 4' (H001571-14)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	125000	16.0	06/15/2020	ND	432	108	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



3FT & 4FT SAMPLES

LEA CO

Kelly Jacobson

### Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 06/12/2020 Sampling Date: 06/05/2020 06/16/2020 Sampling Type: Soil MESA B 05 Sampling Condition: Cool & Intact

### Sample ID: SP 9 @ 3' (H001571-15)

Received:

Reported:

Project Name:

Project Number:

Project Location:

Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	111000	16.0	06/15/2020	ND	432	108	400	3.77	

Sample Received By:

### Sample ID: SP 9 @ 4' (H001571-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47200	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 10 @ 3' (H001571-17)

Chloride, SM4500Cl-B	M4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 10 @ 4' (H001571-18)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 11 @ 3' (H001571-19)

Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	121000	16.0	06/15/2020	ND	432	108	400	3.77	

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

### Sample ID: SP 11 @ 4' (H001571-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52800	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 12 @ 3' (H001571-21)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	120000	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 12 @ 4' (H001571-22)

Chloride, SM4500Cl-B	ICI-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	125000	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 13 @ 3' (H001571-23)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	117000	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 13 @ 4' (H001571-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52800	16.0	06/15/2020	ND	432	108	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



3FT & 4FT SAMPLES

LEA CO

Kelly Jacobson

### Analytical Results For:

**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 06/12/2020 Sampling Date: 06/05/2020 06/16/2020 Sampling Type: Soil Project Name: MESA B 05 Sampling Condition: Cool & Intact

### Sample ID: SP 14 @ 3' (H001571-25)

Received:

Reported:

Project Number:

Project Location:

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	135000	16.0	06/15/2020	ND	432	108	400	3.77	

Sample Received By:

### Sample ID: SP 14 @ 4' (H001571-26)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 15 @ 3' (H001571-27)

Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	123000	16.0	06/15/2020	ND	432	108	400	3.77	

### Sample ID: SP 15 @ 4' (H001571-28)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	127000	16.0	06/15/2020	ND	432	108	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

dred & experiencies Services. OM	CHECKED BY:	Sample Condition Cool Intact	Deliverèd By: (Circle One) -5.9%	Deliverèd By Sampler - UPS
□ Yes □ No Add'I Fax #:	Mi	Received By:	d By: Date:	Relinquished By:
□ Yes □	Phone Result: Fax Result: REMARKS:		Time	Kelinquished
	reived by Cardinal within 30 days after completion of the appl of use-or loss of profits incurred by client. its subsidiaries, stor upon any of the above stated reasons or otherwise.	r shall be detained waived unless made in writing and rec , including without limitation, business interruptions, loss ander by Cardinal, regardless of whether such claim is be	tuding those for negligence and any other cause whatsoeve JII Cardinal be liable for incidental or consequental damages arising out of or related to the performance of services here.	analyses, All claims ind service. In no event sha affiliates or successors a
	art, shall be limited to the amount paid by the client for the	ady for any claim arising whether based in contract or tort, shall be	PLEASE NOTE: Liability and Dominges, Cardinal's liability and client's exclusive remedy for any dia	PLEASE NOTE: Liabili
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	PRESERV. SAMPLING			FOR LAB USE ONLY
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	Phone #:	Ltal CO P	tion: Mesa B 05	Project Location:
	State: Zip:	S	e: samples stat	Project Name:
2	City:		Project Owner:	Project #:
	Address:	A	Fax #:	Phone #:
	Attn: Bob Hall	Zip:	State:	City:
	Company: ISTA	C		Address:
	P.O. #:	.9		Project Manager:
ANALYSIS REQUEST	BILL TO		IME: BTA	Company Name:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



July 19, 2021

Bob Hall

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B #5

Enclosed are the results of analyses for samples received by the laboratory on 07/15/21 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 48 @ 2 (H211852-01)

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	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/16/2021	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	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.3	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 50 @ 2 (H211852-02)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/16/2021	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	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.6	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 27 @ 2 (H211852-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.1	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 29 @ 2 (H211852-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	104	44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 31 @ 2 (H211852-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111 9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 33 @ 2 (H211852-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	104	44.3-13	3						
Surrogate: 1-Chlorooctadecane	118 9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 35 @ 2 (H211852-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	% 38.9-14	•						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 37 @ 2 (H211852-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	114 9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 47 @ 2 (H211852-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 49 @ 2 (H211852-10)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	92.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 20 @ 2 (H211852-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	114 9	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 25 @ 2 (H211852-12)

BTEX 8021B	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	97.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	105	38.9-14	2						

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Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 24 @ 2 (H211852-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	112 9	% 38.9-14	2						

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		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 34 @ 2 (H211852-14)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74	
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	% 38.9-14	2						

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		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 36 @ 5 (H211852-15)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	105	44.3-13	3						
Surrogate: 1-Chlorooctadecane	118 9	% 38.9-14	2						

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		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 38 @ 5 (H211852-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	119 9	% 38.9-14	2						

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Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 40 @ 2 (H211852-17)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	114 9	% 38.9-14	2						

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		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 42 @ 2 (H211852-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	119 9	% 38.9-14	2						

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		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 44 @ 2 (H211852-19)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

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		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 46 @ 2 (H211852-20)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	122 9	% 38.9-14	2						

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		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 39 (H211852-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	103	44.3-13	3						
Surrogate: 1-Chlorooctadecane	116 9	38.9-14	2						

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		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 41 (H211852-22)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	118 9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 43 (H211852-23)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	208	104	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	218	109	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	121	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 45 (H211852-24)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.5	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 51 (H211852-25)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	10						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.2	% 38.9-14	12						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 4 @ 5 (H211852-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.5	% 38.9-14	•						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 6 @ 5 (H211852-27)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	91.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.5	% 38.9-14	2						

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		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 8 @ 5 (H211852-28)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.5	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 10 @ 3 (H211852-29)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	90.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.4	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX,	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL BETWEEN 15 - 17 (H211852-30)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.0	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 1 (H211852-31)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.2	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 2 (H211852-32)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.1	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 3 (H211852-33)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	92.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.5	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 5 (H211852-34)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.13	106	2.00	4.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.19	110	2.00	6.52	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.10	105	2.00	8.95	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.39	106	6.00	9.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	94.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.4	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 7 (H211852-35)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	91.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.5	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 9 (H211852-36)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	97.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.2	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 11 (H211852-37)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	93.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.7	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

### Sample ID: WALL 12 (H211852-38)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager


		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 13 (H211852-39)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.5	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 14 (H211852-40)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.1	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 16 (H211852-41)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	88.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.6	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 18 (H211852-42)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	82.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.5	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 19 (H211852-43)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	218	109	200	4.22	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	210	105	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					
Surrogate: 1-Chlorooctane	76.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	72.8	% 38.9-14	2						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 21 (H211852-44)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	80.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.8	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 22 (H211852-45)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	105 9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 23 (H211852-46)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	95.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	105	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 26 (H211852-47)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	99.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	112 9	38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 28 (H211852-48)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	113 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 30 (H211852-49)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104 9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/12/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: WALL 32 (H211852-50)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	100 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	109 9	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 19 (H211852-51)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	69.9-14	0						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	105	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 20 (H211852-52)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107 9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 21 (H211852-53)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	97.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 25 (H211852-54)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	1.85	92.5	2.00	4.48	
Toluene*	<0.050	0.050	07/16/2021	ND	2.00	99.9	2.00	4.58	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.94	96.8	2.00	4.18	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.83	97.2	6.00	3.58	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	99.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	108	38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 26 (H211852-55)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111 9	38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 1 (H211852-56)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	97.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107 9	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 3 (H211852-57)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	101 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	114 9	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 4 @ 4 (H211852-58)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	116 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 5 (H211852-59)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	95.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 74 (H211852-60)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	113 9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 75 (H211852-61)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	90.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 76 (H211852-62)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	91.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	102	38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 77 (H211852-63)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	209	104	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	223	111	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	114 9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 80 (H211852-64)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.2	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 81 (H211852-65)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	90.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.4	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 89 (H211852-66)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	89.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.1	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 90 (H211852-67)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.2	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 15 (H211852-68)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/16/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	93.1	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 18 (H211852-69)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2021	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	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.4	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 6 (H211852-70)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/16/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/16/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
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	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	80.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.0	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 7 (H211852-71)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/17/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
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	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.2	% 38.9-14	2						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South I Midland TX	Pecos		
		Fax To:	(432) 683-0312		
Received:	07/15/2021			Sampling Date:	07/13/2021
Reported:	07/19/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN			Sample Received By:	Jodi Henson
Project Location:	LEA CO				

## Sample ID: BS - 8 (H211852-72)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2021	ND	2.02	101	2.00	1.39	
Toluene*	<0.050	0.050	07/17/2021	ND	2.15	107	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	2.05	102	2.00	0.562	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	6.23	104	6.00	1.35	
Total BTEX	<0.300	0.300	07/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.7	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# **CARDINAL** Laboratories



Sampler Name:

FOR LAB USE ONLY

H211852

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Lab I.D

Project Location:

Project Name:

City:

Address:

Project Manager: Company Name:

Project #: Phone #:

Received by OCD: 12/20/2021 2:48:21 PM

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Sampler - UPS - Bus - Other:

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Sample Condition

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Fax Result: REMARKS:

Yes Yes

No

Add'l Phone #: Add'l Fax #:

Michael alves @ alves of Field Solutions. org

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

Delivered By: (Circle One)

Page 180 of 203
### **CARDINAL** Laboratories

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

Company Name: Project Manager:

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Pro ducer

P.O. #:

BILL

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ANALYSIS

REQUEST



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			1.00	n CHECKED BY:	Sample Condition	Sam	nn l.t.	(Circle One)	Delivered By: (Circle One)
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		Cable	It completion of the appl client, its subsidiaries, asons or otherwise. Phone Result:	service. In or 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 supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or supposed profits incurred by client, its subsidiaries affiliates or otherwise. Received By: Phone Result Phone Result	ether such claim is	without limitation, busine ardinal, regardless of whe Received By:	equental damages, including e of services hereunder by C Date: 21	rdinat be liable for incidental or cons g out of or related to the performanc	service. In no event shall Ca affiliates or successory rrisin Relinquished By
			d by the client for the	PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's exclusive remedy for any clam arising whether based in contract or tort, shall be limited to the amount paid by the dient 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 daws after comparison of the metric to analyse.	based in contract o	iny claim arising whether deemed waived unless m	tient's exclusive remedy for a r cause whatsoever shall be a	d Damages, Cardinal's liability and c g those for negligence and any other	PLEASE NOTE: Llability an analyses. All claims including
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				State: Zip:			2	Mar a	Project Name:
				City:		er:	Project Owner:		Project #:
				Address:			Fax #:		Phone #:
			2	-		Zip:	State:		City:
				Company: STR					Address:

Received by OCD: 12/20/2021 2:48:21 PM

Sampler - UPS - Bus - Other:

-1,20

211#

Yes Pres Sample Condition

BY

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

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Project Manager:		ANALYSIS REQUEST
Address:		
City: State:	Zip: Attn: Cob 14a II	
Phone #: Fax #:	Address:	
Project #: Project Owner:		
Project Name:		
Project Location: MeSA B S	Phone #:	
= mjann	Fax #:	
FOR LAB USE ONLY	MATRIX	
	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	CL TPH BTEX
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PLASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy I	C / X / X / C / C / C / C / C / C / C /	X
wordset, are variable including trose for hegigigence and any other cause whatsoever shall service. In no event shall Cardinal be liable for incidential or consequential damages, including affiliates or successors arising out of or related to the performance of services hereunder to Realing Tables here.	within 30 days after o rofits incurred by clie	y ins clent for the multipletion of the applicable mrt. Its subsidiaries,
06:41 C-16-2		Phone Result:
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Sampler - UPS - Bus - Other: -1.36/ H13	Sample Condition CHECKED BY: Cool Intact Mitthest	

**Released to Imaging: 1/14/2022 8:08:22 AM** 

### Received by OCD: 12/20/2021 2:48:21 PM



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Released to Imaging: 1/14/2022 8:08:22 AM

### Page 183 of 203



101 East Marland, Hobbs, NM 88240



575) 393-2326 FAX (5	476	
Company Name: BTA OIL Producu	BILL	TO ANALYSIS REQUEST
Address:	P.O.#	
City: State:	Zip: Attn: P.Y.	
Phone #: Fax #:		
Project #: Project Owner:		
Project Name:	State: Zin:	
Project Location: MeSa 5	#	
Sampler Name: Whitewill Gigner	Fax #:	
	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: CE / COOL DTHER :	TPH BTEX
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PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive money. for		2:28 7 7 7
those for negligence and any other dinal be liable for incidental or conse and of or related to the performance	una succursave remedy for any claim arising whether based in contract or tort, shall 6e initiated to the anount a cause whatsoever shall be deemed waived unless made in whitige and received by Cardinal within 30 days a queutrat damages, including without limitation, business interruptions, loss of use, or loss of profits incurred b softwards between the such claim is based upon any of the above salad of son loss of the store softwards and the such claim is based upon any of the above salad of the son loss of the softwards between the such claim is based upon any of the above salad of the softwards are softwards and the softwards are softwards	nt paid by the client for the s after completion of the applicable d by client, its subscilaries, ad reasons or otherwise
Relinquished By:	Joan Hundon	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS:
		Michael alws ealines eilField solutions, org
Sampler - UPS - Bus - Other: 1. 72/#12	1 2 Cool Intact (Initials)	
	-	

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

Released to Imaging: 1/14/2022 8:08:22 AM

### **CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 (Company Name	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 5: 77A 2010 000 000 000	240 76	RILL TO			
Project Manager:			P.O. #:		ANALTSIS REQUEST	
Address:			Company: BTA			
City:	State:	Zip:	Attn: Bob Hall			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:	5	City:			
Project Name:			State: Zip:			
Project Location:	" Mesa BS		Phone #:			
Sampler Name:	Misuel Somez		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	тт Сг ТРН В+ех		
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N	105-109	x X	X 743-21 10:59	*		
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20	20-21					
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S		2	× 7-13-21	YON XXX		
52	100 - 904 135 - 5	×7	× 7-13-21	1.32 × XX		
LEASE NOTE: Liability an nalyses. All claims includin ervice. In no event stall C:	LEASE MOTE: 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 nalyses. 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 ancient. In no event will clarin sincluding 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 ancient. In no event will claring the cardinal within 30 days after completion of the applicable ancient. In no event will claring the trace of the device of the cardinal within the device of the cardinal within a subsidiaries, the subsidiaries interruptions, toss of use of profits incurred by client, its subsidiaries, that are supported and applicable to accompose the device of the dev	any claim arising whether based in contract deemed waived unless made in writing and y without limitation, business interruptions, k	or tort, shall be limited to the amount pak received by Cardinal within 30 days after oss of use, or loss of profits incurred by cl	t by the client for the r completion of the applicable lient, its subsidiaries,		- 1
telinquished By	Timper:	21 Received By: 20 AUGU: HUNDEN-	MSBN	Phone Result: Yes No Fax Result: Yes No REMARKS:	Add'l Phone #: Add'l Fax #:	
elinquished By:	: Date: Time:	Received By:		WINGOOD 3		
Delivered By: (Circle One)			ON CHECKED BY:			
Sampler - UPS	Sampler - UPS - Bus - Other: -1.5.0/ -115	15 Hes Hes	AA	Which are (alues (a	Which a law of a hus of I Fiel solutions, org	
						ĺ

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

## Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

omnany Namo	13	2476				
Project Manager	4 Oil Module	60	BILL TO		ANA	ANALYSIS REQUEST
Address:			P.O. #			
City:	State:	Zip:	Attn: Dob 1	1	_	
Phone #:	Fax #:		SS			_
Project #:	Project Owner:	ner:	City:			
Project Name:			State: Zin:			
Project Location: WESC	Se 85		ŧ			
Sampler Name: White	Sher somez	•	Fax #·			
		MATRIX	PRESERV SAMPLING	NG		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	DTHER : ACID/BASE: CE / COOL DTHER : DATE	Тр <u>и</u>	B+ex	
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69 35-12		ບ ບ  × ×	× 7-13-21	3:22 X X	< ×	
nalyses. All claims including those for negligence and any service. In no event shall Cardinal be fable for incidental or fittilates or stocces for a naine coll of or related to the perfor	carcunat subolity and client's acclusive remedy for any claim arising egligence and any other cause whatsoever shall be deemed without be for incidental or consequential damages, including without limitatic lated to the performance of services twetrunder by Cardinal, regardle	wh unlo	ether based in contract or tort, shall be limited to the amount pad sess made in writing and received by Cardinal within 30 days after vusiness interruptions, loss of use, or loss of profits incurred by of of whether such claim is based unon any of the physical based and based and a set of the se	by the client for the completion of the applicable ent, its subsidiaries,		
Relinquished By:	Time:	Received By: Received By:		Phone Result:	is □ No Add"  Phone #: No Add"  Fax #:	ax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.30	AHITS Cool Intact Cool Intact Pres Pres No No	n CHECKED BY:	Michalalum		Dalminalities established
† Cardinal cannot acc	Cardinal cannot accept verbal changes. Please fax written changes to (575) 399-2326	se fax written changes to (5	75) 393-2326			ONLINGE MALTING

### Received by OCD: 12/20/2021 2:48:21 PM

alves officiend solutions. any	Michaelaluuse	X	nges. Please fax written ch	cannot accept verba
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			Time:	
No Add'I Fax #:	□ Yes	Jalen 28m	Time 1:50 (Odi	Relinguished By:
	Yes	arised out of or related to the performance of services hearung and an	nvices hereunder by Cardinal, regardless of whe	2
	paid by the client for the applicable	uny and unanages. Cardinats liability and dients acclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the including those for negligence and any other cause whatoever shall be deemed yourdess made in whiting and received by Cardinal within 30 days after completion of the applicable what Cardinal be lable for incidential or consequential demages, including whether business intervants on twitting and received by Cardinal within 30 days after completion of the applicable the applicable of the state of the stat	t's exclusive remedy for any claim arising whether use whatsoever shall be deemed waived unless m tental damages including without limitation busing	analyses. All claims including those for negligence and any other caus service. In no event hall Cardinal be liable for incidental or consequer
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	7	SE:	OR (C)O AINERS DWATER	Lab I.D. Sample I.D.
		MATRIX PRESERV. SAMPLING		
		Fax #:	omez	FOR LAR ISE ONLY
		#		Project Location: WVESe, D5
		State: Zip:		Project Name:
		City:	Project Owner:	Project #:
		SS:	Fax #:	Phone #:
		6 140	State: Zip:	City:
	F	pany: BT		Address:
ANALISIS REQUEST		P.O. #:		
DEDITECT		BILL TO	producer	Company Name: BTA OIL PS
pg ga			obbs, NM 88240 (575) 393-2476	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	CHAIN-OF-CUS			
			tories	Laboratories
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July 26, 2021

Bob Hall

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B #5

Enclosed are the results of analyses for samples received by the laboratory on 07/23/21 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701		
		Fax To: (432) 683-03	12	
Received:	07/23/2021		Sampling Date:	07/19/2021
Reported:	07/26/2021		Sampling Type:	Soil
Project Name:	MESA B #5		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO			

### Sample ID: BS 67 (H211935-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	76.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.8	% 38.9-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: BS 68 (H211935-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	10						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	83.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.8	% 38.9-14	( <b>)</b>						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: BS 66 (H211935-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.3	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 135 (H211935-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	93.6	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 128 @ 4' (H211935-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	134 %	6 44.3-13	3						
Surrogate: 1-Chlorooctadecane	134 9	6 38.9-14	•						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 129 @ 4' (H211935-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	84.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.7	% 38.9-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 131 @ 2' (H211935-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	75.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.3	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 132 @ 2' (H211935-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/23/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.3	% 38.9-14	2						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South F Midland TX,	Pecos		
		Fax To:	(432) 683-0312	<u>.</u>	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number: Project Location:	None given Lea co			Sample Received By:	Tamara Oldaker

### Sample ID: WALL 133 @ 2' (H211935-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/23/2021	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	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	75.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.7	% 38.9-14	2						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 134 @ 2' (H211935-10)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/23/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	75.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	69.5	% 38.9-14	2						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BTA Oil Pro BOB HALL 103 South Midland TX	Pecos		
		Fax To:	(432) 683-0312	2	
Received:	07/23/2021			Sampling Date:	07/19/2021
Reported:	07/26/2021			Sampling Type:	Soil
Project Name:	MESA B #5			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	LEA CO				

### Sample ID: WALL 130 @ 15' (H211935-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2021	ND	1.91	95.7	2.00	6.25	
Toluene*	<0.050	0.050	07/23/2021	ND	2.05	102	2.00	7.08	
Ethylbenzene*	<0.050	0.050	07/23/2021	ND	1.97	98.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	07/23/2021	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	07/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/23/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2021	ND	218	109	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2021	ND	205	103	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/24/2021	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.5	% 38.9-14	2						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 12/20/2021 2:48:21 PM



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ARDINAL oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### Received by OCD: 12/20/2021 2:48:21 PM



### Page 202 of 203

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OWL SWD OPERATING, LLC	308339
8201 Preston Road	Action Number:
Dallas, TX 75225	68056
	Action Type:
	[C-141] Release Corrective Action (C-141)
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By		Condition Date
chensley	None	1/14/2022

Action 68056