

Incident ID	nRM2012547984
District RP	
Facility ID	30-025-27089
Application 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.

Closure Report Attachment Checklist: *Each of the following items 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 the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Maren Latimer Title: Agent
Signature: Maren Latimer Date: 09/21/2023
email: mlatimer@ravenop.com Telephone: 575-691-6790

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

SITE INFORMATION

Report Type: Closure Report nRM2012547984

General Site Information:

Site:	Myers Langlie Mattix Unit #212					
Company:	JR Oil LTD. CO.					
Section, Township and Range	Unit G	Sec. 07	T 24S	R 37E		
Lease Number:						
County:	Lea County					
GPS:	32.23386			-103.199680		
Surface Owner:	Private: Lea County Partners					
Mineral Owner:						
Directions:	From 18 and Deep Wells Rd, travel West on Deep Wells Rd for 0.31 miles. Turn left (South) onto lease road and follow for 0.17 miles. Location on east side of road.					

Release Data:

Date Released:	3/24/2020
Type Release:	Oil & Produced Water
Source of Contamination:	Fiberglass Injection Line Failure
Fluid Released:	1.5 bbl oil & 60 bbl water
Fluids Recovered:	0.10 bbl oil & 15 bbl water

Official Communication:

Name:	Joe Tippy		Clair Gonzales
Company:	JR Oil LTD		Tetra Tech
Address:	PO Box 2975		901 W. Wall St.
			Ste 100
City:	Hobbs, New Mexico 88241		Midland, Texas, 79701
Phone number:	(575) 390-1380		(432) 682-4559
Fax:			
Email:	JoeTippy@valornet.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	118.20' Below Ground Surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



September 13, 2023

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Closure Report
J R Oil, LTD. CO.
Myers Langlie Mattix Unit #212
Lea County, New Mexico
NRM2012547984**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by J R Oil, LTD. CO. (JR Oil) to direct remediation activities and conduct confirmation sampling at the Myers Langlie Mattix Unit #212 (MLMU 212), Unit G, Section 7, Township 24 South, Range 37 East, Lea County, New Mexico (Site). The spill site coordinates are 32.233860°, -103.199680°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the MLMU 212 was caused by a 3 inch fiberglass injection flowline failure, causing the release of 60 bbls of produced water and 1.5 bbls of crude oil, the release was located in a pasture, impacting an area of 343' in length, and ranging from 20' to 110' in width. Additionally, approximately 15 bbls of produced water and 0.10 bbls of crude oil was recovered. On March 24, 2020, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**. Additionally, a work plan was submitted for the remediation approach of the MLMU 212 and approved on March 23, 2023 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst area. The NFHL Map and USGS Mapper are shown in **Appendix B**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied



permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the three closest water wells within a 1 mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 152 ft bgs with water level measured at 118.20 ft bgs and is approximately 0.44 miles of the Site. The well reported on the USGS National Water Information System reports a total depth of 185 ft bgs with water level measured at 123.84 ft bgs and is approximately 0.48 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 125 ft bgs and measured water level of 90 ft bgs and is approximately 0.67 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.44 Miles	3/01/1996	USGS	152'	118.20'
0.48 Miles	3/05/1986	USGS	185'	123.84'
0.67 Miles	9/30/1967	NMOSE	125'	90'

Regulatory

Based on the approved work plan, approved on March 23, 2023 by the NMOCD, and the findings of a risk-based evaluation of the site following the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018, the following are the determined recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 600 mg/kg. However, based on the approved work plan, the top 4.0 ft of soil was removed and a liner was installed in the bottom of the excavation. The liner placement is shown on **Figure 3** and in the Photographic Documentation.

Previous Consultant Site Assessment Activities

Initial Site Assessment Activities

As shown in the previously approved work plan, shown in **Appendix C**, BBC International (BBC) conducted initial site assessment activities from June 1, 2020 through June 5, 2020. A total of nine (9) sample points (SP-1 through SP-9) were installed to total depths ranging from 5.0 feet (ft) below ground surface (bgs) to 16.0 ft bgs, to attempt to assess and vertically delineate the impacted the area. Additionally, a total of four (4) surface samples (North, East, West, and South) were installed to surface depths, to horizontally delineate the impact. The



impact and sample locations are shown on the google earth image provided in the work plan as shown in **Appendix C**.

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in the analytical result summary and analytical laboratory reports are shown in the work plan in **Appendix C**.

Referring to the analytical result summary shown in the work plan in **Appendix C**, sample points (SP-1 through SP-9) indicated chloride concentrations above the reclamation standard of 600 mg/kg, with concentrations ranging from 720 mg/kg to 2,040 mg/kg. Sample point (SP-8) indicated a TPH concentration above RRALs, with a concentration of 428 mg/kg, at a surface depth. Additionally, sample points (SP-1 through SP-7, and SP-9) did not indicate benzene, BTEX, and TPH concentrations above RRALs. Surface samples (North, East, West, and South) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRALs.

Additional Site Assessment Activities

As shown in the previously approved work plan, shown in **Appendix C**, BBC International (BBC) conducted additional site assessment activities from December 9, 2020 through December 10, 2020. A total of five (5) soil bores (SB-1 through SB-5) were installed to total depths ranging from 40.0 ft bgs to 59.0 ft bgs, to attempt to assess and vertically delineate the impacted the area. The impact and sample locations are shown on the google earth image provided in the work plan as shown in **Appendix C**.

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in the analytical result summary and analytical laboratory reports are shown in the work plan in **Appendix C**.

Referring to the analytical result summary shown in the work plan in **Appendix C**, soil bores (SB-1 through SB-4) indicated chloride concentrations above the reclamation standard of 600 mg/kg, with concentrations ranging from 624 mg/kg to 1,040 mg/kg. Additionally, soil bores (SB-1 through SB-5) did not indicate benzene, BTEX, and TPH concentrations above laboratory detection limits and soil bore (SB-5) did not indicate chloride concentrations above RRALs.

Remediation Activities

JR Oil conducted remediation activities from September 29, 2022 through December 20, 2022. The areas of impact were remediated to a depth of 4.0 ft bgs. The remediation areas and depth is shown on **Figure 3**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite sidewall samples every 200 square feet within the remediation, as indicated in the work plan, approved by the NMOCD on March 23, 2023. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of full depth of sidewalls are collected. A total of twenty-three (23) sidewalls (SW-1 through SW-23) were collected to confirm full removal of impacted soil. The confirmation soil samples were



submitted to the Eurofins Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusions

Based on the work plan approved by the NMOCD, the C-141 (NRM2012547984), and the information provided by JR Oil, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed for soil beyond the top 4.0 ft of soil. However, the approved work plan indicated the removal of the top 4.0 ft of soil and a liner installation was the approved remediation approach. Based on this information, the areas of sample points (SP-1 through SP-9) and soil bores (SB-1 through SB-4) were excavated to 4.0 ft bgs and a 20 mil liner was installed within the excavation, as was previously approved by the NMOCD, and is shown in **Figure 3**.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation sidewall samples to ensure the impacted soil was fully removed. Approximately 3,115 cubic yards of impacted soil was removed and properly disposed of, a 20 mil liner was installed within the excavation, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the remediated pad at this Site requires no further action. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long,
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager

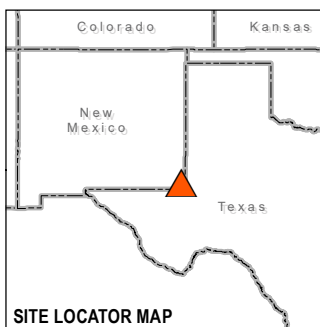


Figures



▲ APPROXIMATE SITE LOCATION

0 11,000 22,000
Feet
Approximate Scale



J R OIL, LTD. CO.

FIGURE 1
OVERVIEW MAP
MYERS LANGLEIE MATTIX UNIT 212
LEA COUNTY, NEW MEXICO
32.233735°, -103.199879°

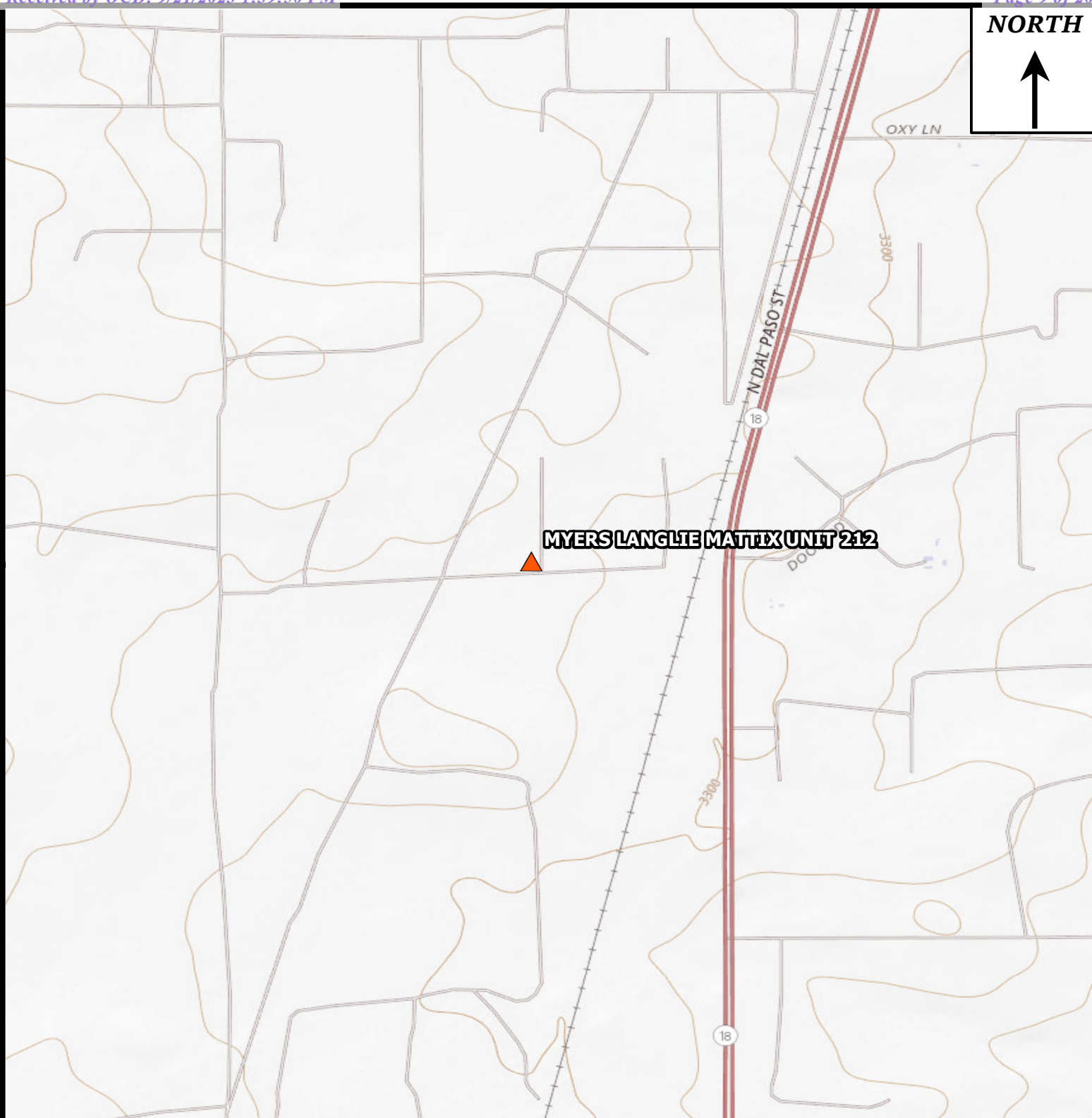
Project: 212C-MD-02888

Date: 11/01/2022

Name: Figure 1 - MLMU 212



NORTH



▲ APPROXIMATE SITE LOCATION

0 1,000 2,000
Feet
Approximate Scale



J R OIL, LTD. CO.

FIGURE 2
TOPOGRAPHIC MAP
MYERS LANGLIE MATTIX UNIT 212
LEA COUNTY, NEW MEXICO
32.233735°, -103.199879°

Project: 212C-MD-02888

Date: 11/01/2022

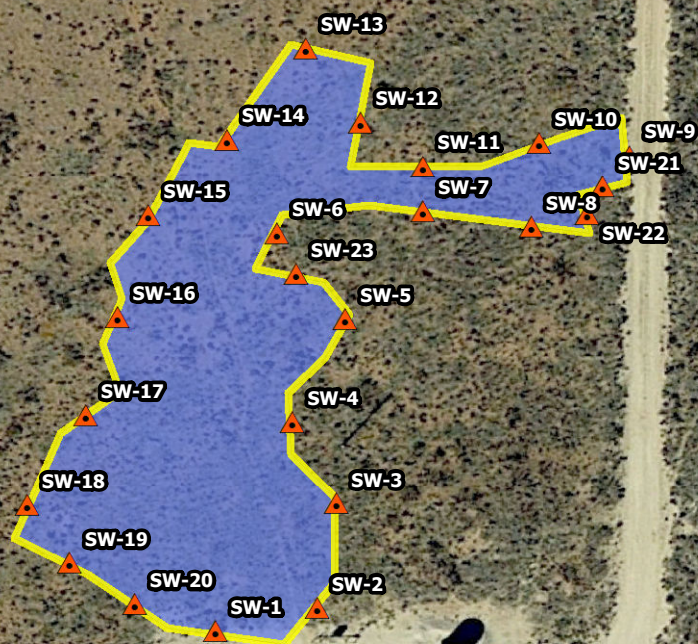
Name: Figure 2 - MLMU 212



Service Layer Credits: USGS, The National Map, 2020.

Released to Imaging: 2/5/2024 11:12:05 AM

NORTH



▲ SIDEWALL SAMPLE LOCATIONS

20 mil LINER PLACEMENT

4' DEPTH EXCAVATION

0 50 100
Feet
Approximate Scale



SITE LOCATOR MAP

J R OIL, LTD. CO.

FIGURE 3
EXCAVATION DEPTH & AREA MAP
MYERS LANGLIE MATTIX UNIT 212
LEA COUNTY, NEW MEXICO
32.233735°, -103.199879°

Project: 212C-MD-02888

Date: 9/13/2023

Name: Figure 3 - MLMU 212



Service Layer Credits: Google Maps, 2021.

Released to Imaging: 2/5/2024 11:12:05 AM



Tables

Table 1
JR Oil LTD
Myers Langlie Mattix Unit 212
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
SW-1	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	321
SW-2	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	30.6
SW-3	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	40.1
SW-4	12/20/2022	0-4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.49
SW-5	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.2
SW-6	12/20/2022	0-4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.33
SW-7	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.05
SW-8	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.57
SW-9	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.8
SW-10	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.9
SW-11	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	14.7
SW-12	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.96
SW-13	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	147
SW-14	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	128
SW-15	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.05
SW-16	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.03
SW-17	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.01
SW-18	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.01
SW-19	12/20/2022	0-4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.02
SW-20	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00
SW-21	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	49.2

Table 1
JR Oil LTD
Myers Langlie Mattix Unit 212
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs							100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg
SW-22	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.67
SW-23	12/20/2022	0-4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	9.16

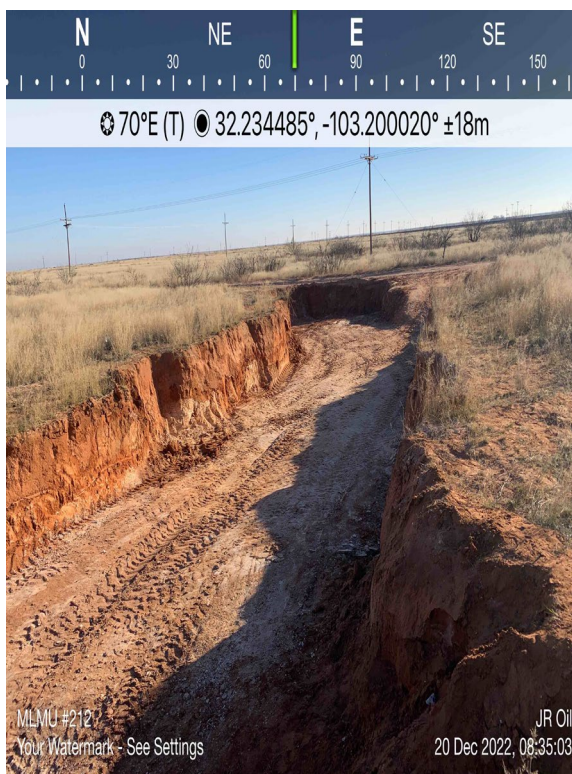
NOTES
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.
All screening values and results are presented in milligrams per kilogram (mg/kg)
Bolded cells represent a detected concentration above the respective screening value.
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

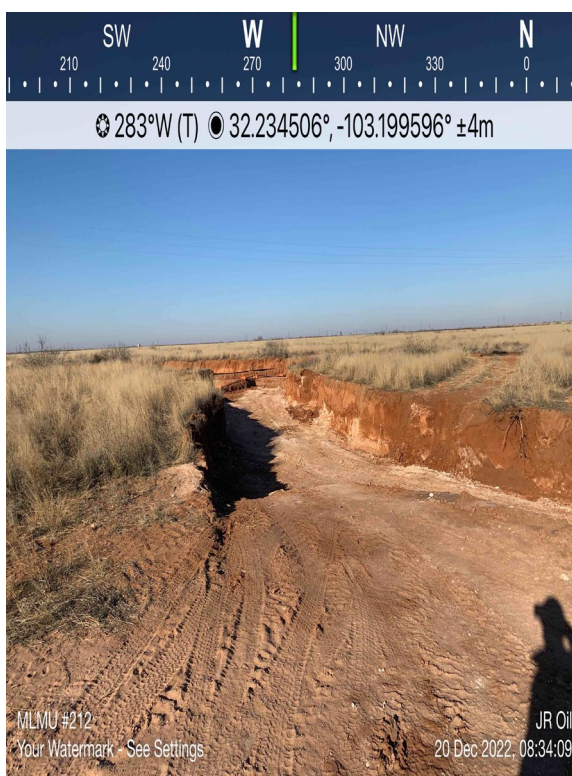


Photographic Documentation

JR Oil
MLMU #212
Lea County, New Mexico

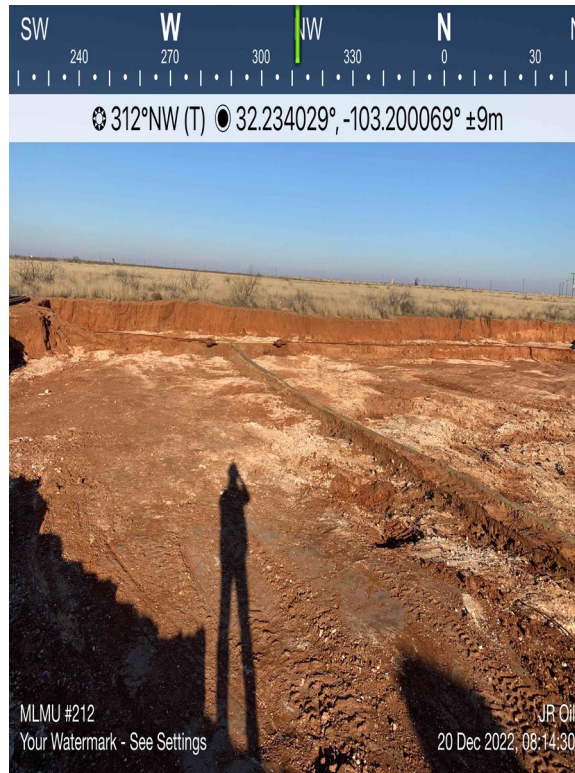


View of Remediation Activities – View Northeast



View of Remediation Activities – View West

JR Oil
MLMU #212
Lea County, New Mexico



View of Remediation Activities – View Northwest



View of Remediation Activities – View Southeast

JR Oil
MLMU #212
Lea County, New Mexico



View of Liner Installation – View West



View of Liner Installation – View South

JR Oil
MLMU #212
Lea County, New Mexico



View of Liner Installation – View Northwest



View of Liner Installation – View Northeast

JR Oil
MLMU #212
Lea County, New Mexico



View of Liner Installation – View North



View of Liner Installation – View North

JR Oil
MLMU #212
Lea County, New Mexico



View of Liner Installation – View East



View of Liner Installation – View Southwest

JR Oil
MLMU #212
Lea County, New Mexico



TETRA TECH



View of Liner Installation – View North



Appendix A

C-141 Document

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	nRM2012547984
District RP	
Facility ID	30-025-27089
Application ID	

Release Notification

Corrected

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude 32.23386 Longitude -103.19968
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MLMU 212	Site Type	BATTERY
Date Release Discovered	3-24-2020	API# (if applicable)	30-025-27089

Unit Letter	Section	Township	Range	County
G	7	T24S	R37E	LEA COUNTY, NM

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1.5 BBLS	Volume Recovered (bbls) .10 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 60 BBLS	Volume Recovered (bbls) 15 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release 3 INCH FIBERGLASS INJECTION FLOWLINE FAILURE		

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	30-025-27089
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? THE RELEASE IS GREATER THAN 25 BBLs
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? YES, BY WADE DITTRICH, TO JIM GRISWOLD OF OCD, BLM., ON WEDNESDAY 3/25/20 AT 3:42:01 PM	

Initial Response


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

- ☒ 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: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 4-1-2020email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**Received by: Jocelyn HarimonDate: 08/01/2022

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: MLMU 212 Date of Spill: 3/24/2020
Average Daily Production: BBL Oil BBL Water Site Soil Type: Fine Sand

Total Area Calculations					
Total Surface Area	width	length	wet soil depth	oil (%)	
Rectangle Area #1	102 ft	145 ft	1 in	3%	
Rectangle Area #2	60 ft	80 ft	1 in	3%	
Rectangle Area #3	0 ft	0 ft	0 in	0%	
Rectangle Area #4	0 ft	0 ft	0 in	0%	
Rectangle Area #5	0 ft	0 ft	0 in	0%	
Rectangle Area #6	0 ft	0 ft	0 in	0%	
Rectangle Area #7	0 ft	0 ft	0 in	0%	
Rectangle Area #8	0 ft	0 ft	0 in	0%	

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:					
Area #1	14790 sq. ft.	H2O	1,196 cu. ft.	OIL	37 cu. ft.
Area #2	4800 sq. ft.		388 cu. ft.		12 cu. ft.
Area #3	0 sq. ft.				
Area #4	0 sq. ft.				
Area #5	0 sq. ft.				
Area #6	0 sq. ft.				
Area #7	0 sq. ft.				
Area #8	0 sq. ft.				
Total Solid/Liquid Volume:	19,590 sq. ft.		1,584 cu. ft.		49 cu. ft.
Estimated Volumes Spilled					
Liquid in Soil:		H2O	45.1 BBL	OIL	1.4 BBL
Liquid Recovered :			15.0 BBL		0.0 BBL
Spill Liquid					
Total Spill Liquid:			60.1 BBL		1.4 BBL
Recovered Volumes					
Estimated oil recovered:			0.0 BBL		
Estimated water recovered:			15.0 BBL		

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

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

Action 17239

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 17239
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/1/2022

Incident ID	
District RP	
Facility ID	
Application ID	

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application 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.

Closure Report Attachment Checklist: Each of the following items 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 the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Appendix B

Site Characterization Documents



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide

News Bulletins

1

How are we doing? We want to hear from you. Take our quick [survey](#) to tell us what you think.

•

Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

•

[Full News](#) 

Groundwater levels for the Nation

1

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321319103115701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321319103115701 24S.37E.07.431244

Lea County, New Mexico
Latitude 32°13'39", Longitude 103°11'59" NAD27
Land-surface elevation 3,304.10 feet above NGVD29
The depth of the well is 152 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source measurement
1953-03-06			D 62610		3184.19	NGVD29	1	Z		
1953-03-06			D 62611		3185.52	NAVD88	1	Z		
1953-03-06			D 72019	119.91			1	Z		
1970-12-03			D 62610		3184.61	NGVD29	1	Z		
1970-12-03			D 62611		3185.94	NAVD88	1	Z		
1970-12-03			D 72019	119.49			1	Z		
1976-01-20			D 62610		3184.87	NGVD29	1	Z		
1976-01-20			D 62611		3186.20	NAVD88	1	Z		
1976-01-20			D 72019	119.23			1	Z		
1981-03-18			D 62610		3185.01	NGVD29	1	Z		
1981-03-18			D 62611		3186.34	NAVD88	1	Z		
1981-03-18			D 72019	119.09			1	Z		
1986-03-05			D 62610		3184.10	NGVD29	1	Z		
1986-03-05			D 62611		3185.43	NAVD88	1	Z		
1986-03-05			D 72019	120.00			1	Z		

https://nwis.waterdata.usgs.gov/nwis/gw/levels?site_no=321319103115701&agency_cd=USGS&format=html

Released to Imaging: 2/3/2024 11:12:05 AM

1/2

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement
1996-03-01		D	62610		3185.90	NGVD29	1	S		
1996-03-01		D	62611		3187.23	NAVD88	1	S		
1996-03-01		D	72019	118.20			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

AccessibilityFOIAPrivacyPolicies and Notices

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321319103115701&agency_cd=USGS&format=html

Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2023-09-12 00:40:18 EDT
0.28 0.24 nadww01





[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface[USGS Water Resources](#)


Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

❶ [How are we doing?](#) We want to hear from you. Take our quick [survey](#) to tell us what you think.

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

❶ Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321350103113301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321350103113301 24S.37E.08.113342

Lea County, New Mexico

Latitude 32°13'50", Longitude 103°11'33" NAD27

Land-surface elevation 3,303 feet above NAVD88

The depth of the well is 185 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1965-10-28			D 62610		3176.06	NGVD29	1	Z		
1965-10-28			D 62611		3177.38	NAVD88	1	Z		
1965-10-28			D 72019	125.62			1	Z		
1965-11-02			D 62610		3176.07	NGVD29	1	Z		
1965-11-02			D 62611		3177.39	NAVD88	1	Z		
1965-11-02			D 72019	125.61			1	Z		
1968-02-28			D 62610		3176.37	NGVD29	1	Z		
1968-02-28			D 62611		3177.69	NAVD88	1	Z		
1968-02-28			D 72019	125.31			1	Z		
1970-12-02			D 62610		3176.37	NGVD29	1	Z		
1970-12-02			D 62611		3177.69	NAVD88	1	Z		
1970-12-02			D 72019	125.31			1	Z		
1976-01-16			D 62610		3176.88	NGVD29	1	Z		
1976-01-16			D 62611		3178.20	NAVD88	1	Z		
1976-01-16			D 72019	124.80			1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1981-03-17			D	62610	3177.59	NGVD29	1	Z		
1981-03-17			D	62611	3178.91	NAVD88	1	Z		
1981-03-17			D	72019	124.09		1	Z		
1986-03-05			D	62610	3177.84	NGVD29	1	Z		
1986-03-05			D	62611	3179.16	NAVD88	1	Z		
1986-03-05			D	72019	123.84		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321350103113301&agency_cd=USGS&format=html)



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-09-12 00:44:09 EDT

0.28 0.24 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00443	3	4	1	08	24S	37E	670718	3567680*🌐
Driller License:	208	Driller Company:		VAN NOY, W.L.					
Driller Name:	VAN NOY, W.L.								
Drill Start Date:	09/13/1967	Drill Finish Date:		09/30/1967		Plug Date:			
Log File Date:	05/10/1978	PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	6.00	Depth Well:		125 feet		Depth Water:		90 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				115	120	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				110	120				

*UTM location was derived from PLSS - see Help

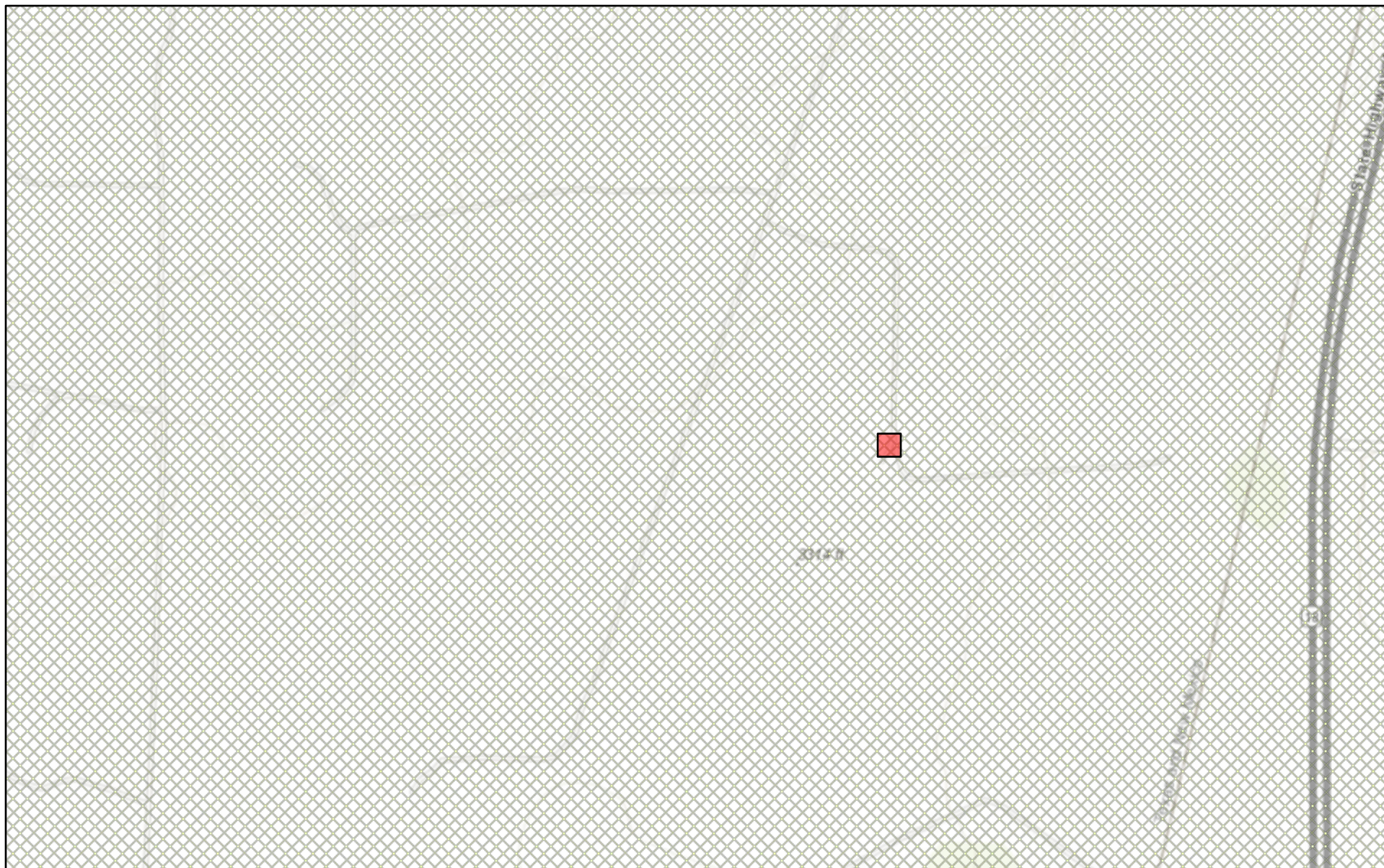
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/11/23 10:31 PM

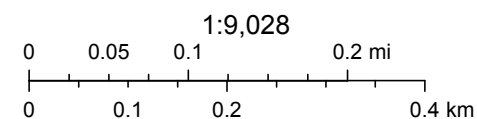
POINT OF DIVERSION SUMMARY



New Mexico NFHL Data



September 11, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Low Karst
R Oil
LMU 212

Released to Imaging: 2/5/2024 11:12:05 AM

Legend

- High
- Low
- Medium
- MLMU 212

Received by OCD: 9/21/2023 1:39:50 PM

Myers Langlie Mattix Unit #212 32.233860, -103.199680



Appendix C

Previous Consultants Approved Work Plan



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDATION WORKPLAN

OXY – MLMU 212
(Leak Date: 3/24/20)

Incident Reference #: NRM2012547984

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2012547984.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD rules, the following remediation is proposed:

OXY will excavate the entire spill area as depicted on the following site diagram. The leak area will be excavated to a depth of 4 feet.

OXY requests a variance per 19.15.29.14 NMAC to install an impermeable liner (20 mil plastic) into the bottom of the excavation. This variance is requested due to the safety concerns of a deeper excavation and the liner will be protective of further migration of the chloride impact.

In addition, OXY requests to collect only sidewall confirmation samples every 200 square feet since there will an impermeable liner in the bottom and deeper sample data exists in this report. The estimated amount of soil to be excavated is 3,000 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

ENVIRONMENTAL CONSULTING AND REMEDIATION SERVICES
HOBBS, NEW MEXICO • WEBSITE: www.bbcinternational.com • HOUSTON, TEXAS

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2012547984
District RP	
Facility ID	
Application ID	

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?	118 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ 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.

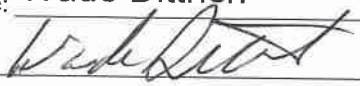
Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nRM2012547984
District RP	
Facility ID	
Application ID	

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: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 2-5-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	nRM2012547984
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ 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 confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 2-5-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828


OCD OnlyReceived by: Chad Hensley Date: 03/23/2021☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: 03/23/2021


OXY MLMU 212


Leak Date: 3-24-2020
Lea County, NM
API: 30-025-27089
Incident ID: NRM2012547984

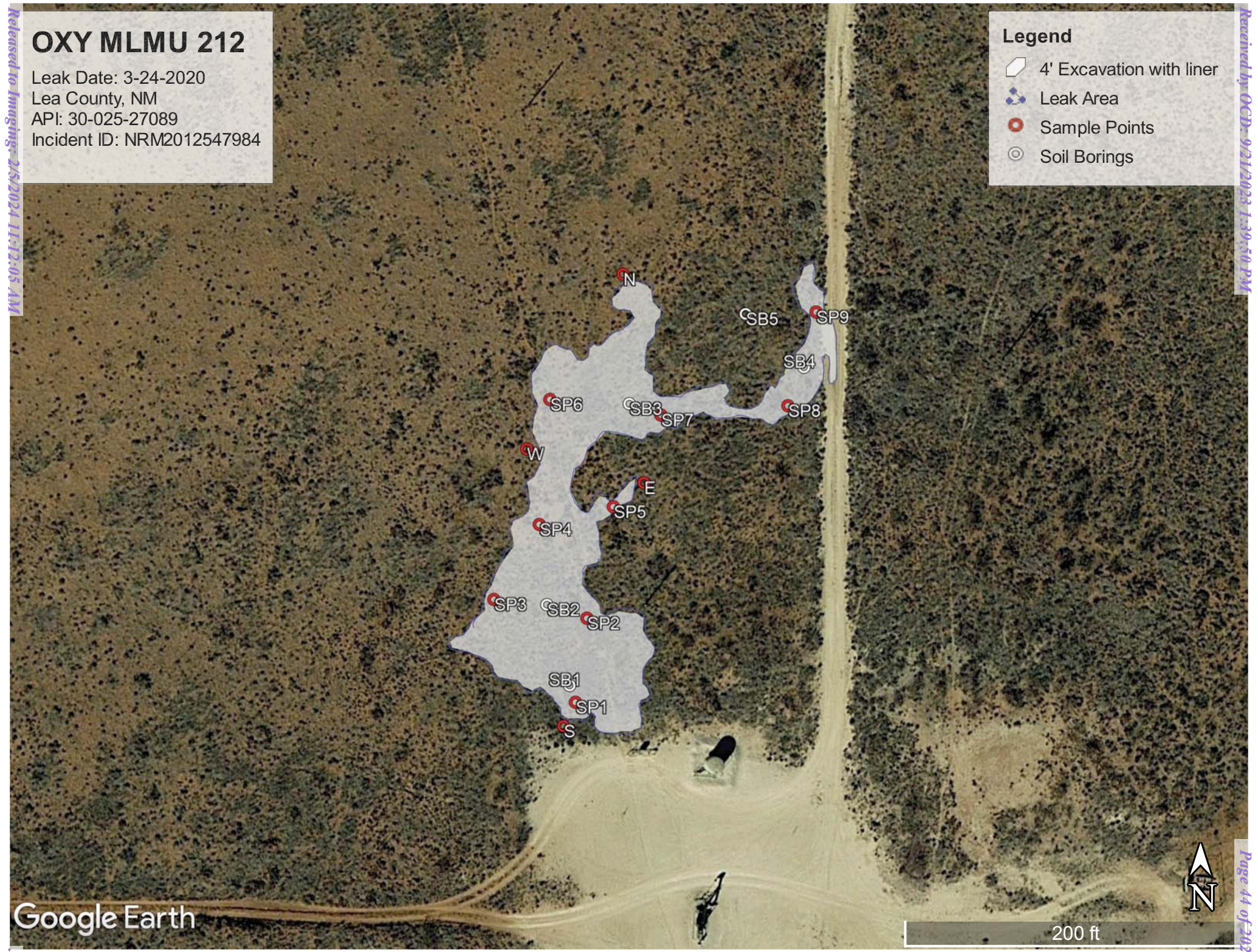
Legend

 4' Excavation with liner

 Leak Area

 Sample Points

 Soil Borings



Oxy, MLMU 212 (3-24-20)

Sample points for Soil Borings

SB1, N 32.23409 W -103.20011

SB2, N 32.23422 W -103.20015

SB3, N 32.23454 W -103.20000

SB4, N 32.23460 W -103.19967

SB5, N 32.23468 W -103.19978

Sample points

SP1, N 32.23406 W -103.20010

SP2, N 32.23420 W -103.20008

SP3, N 32.23423 W -103.20025

SP4, N 32.23435 W -103.20017

SP5, N 32.23437 W -103.20003

SP6, N 32.23455 W -103.20015

SP7, N 32.23452 W -103.19994

SP8, N 32.23454 W -103.19970

SP9, N 32.23469 W -103.19964

NORTH, N 32.23478 W-103.20003

EAST, N 32.23441 W-103.19992

WEST, N 32.23447 W-103.20021

SOUTH, N 32.23400 W-103.20021



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321319103115701

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321319103115701 24S.37E.07.431244

Lea County, New Mexico
Latitude 32°13'39", Longitude 103°11'59" NAD27
Land-surface elevation 3,304.10 feet above NGVD29
The depth of the well is 152 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

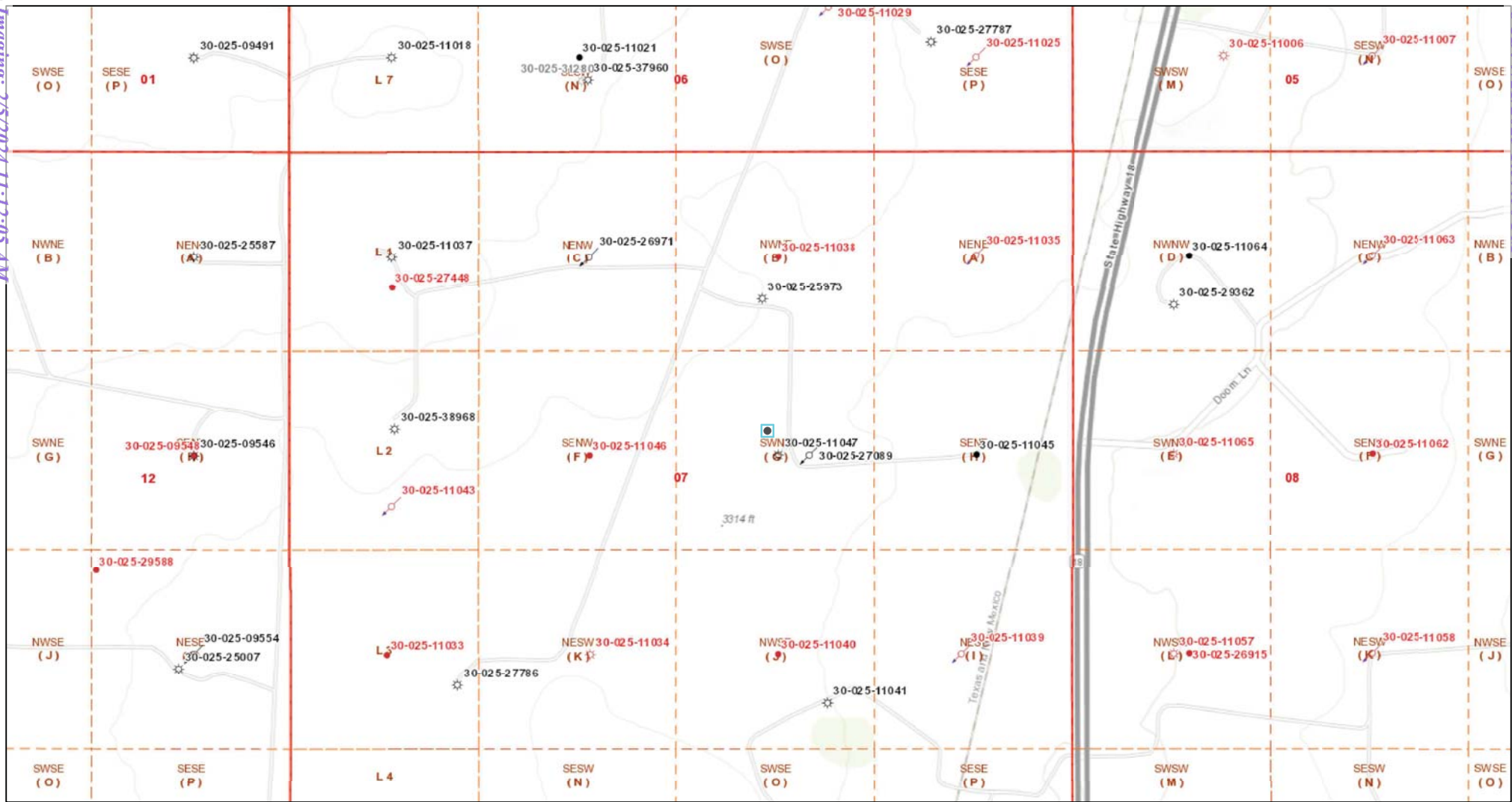
Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-03-06		D	119.91				2		U	
1970-12-03		D	119.49				2		U	
1976-01-20		D	119.23				2		U	
1981-03-18		D	119.09				2		U	
1986-03-05		D	120.00				2		U	
1996-03-01		D	118.20				2		S	

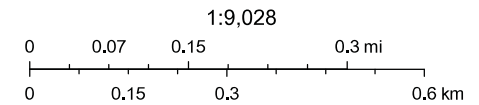
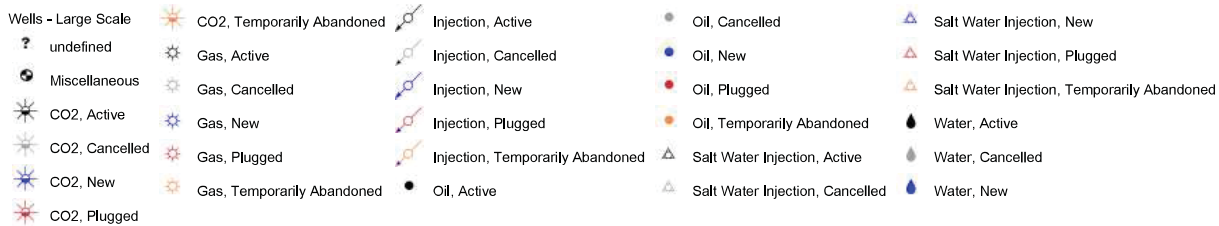
Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

MLMU 212 (3-24-20) +3,000ft to H2O



3/30/2020 9:42:24 AM





Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

Oxy MLMU #212

Leak Date: 3-24-2020
Lea County, NM
API: 30-025-27089
Incident ID: nRM2012547984

Legend

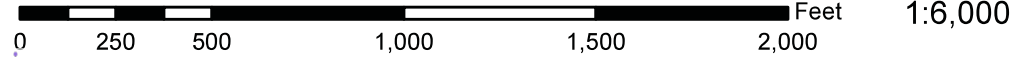
-  Leak Area
-  Low Potential



National Flood Hazard Layer FIRMette



32°14'17.11"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone B</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
	Profile Baseline	
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **3/27/2020 at 5:48:45 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Received by Imaging: 2/5/2024 11:12:05 AM
M357 21:21:30P

Received by OCD: 9/2/2023 1:39:50 PM

Page 49 of 202

Laboratory Analytical Results Summary
Oxy, MLMU #212 (3-24-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	6/1/20	6/1/20	6/1/20	6/1/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		11.6	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 7'	SP1 @ 10'	SP1 @ 13'
Analyte	Method	Date	6/1/20	6/1/20	6/1/20	6/1/20	6/1/20	6/1/20	6/1/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		848	1180	1200	1680	1220	1440	1580
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 7'	SP2 @ 10'	SP2 @ 13'	SP2 @ 16'
Analyte	Method	Date	6/1/20	6/1/20	6/1/20	6/2/20	6/2/20	6/2/20	6/2/20	6/2/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		864	784	1380	1630	1440	1250	1220	1220
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	21.1	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/2/20	6/2/20	6/2/20	6/2/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1070	432	32.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Oxy, MLMU #212 (3-24-20)

		Sample ID	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 7'	SP4 @ 10'	SP4 @ 13'	SP4 @ 15'
Analyte	Method	Date	6/2/20	6/2/20	6/2/20	6/3/20	6/3/20	6/3/20	6/3/20	6/3/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		800	1310	720	1490	1790	1840	1600	1600
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 7'	SP5 @ 10'	SP5 @ 13'	SP5 @ 15'
Analyte	Method	Date	6/3/20	6/3/20	6/3/20	6/3/20	6/3/20	6/3/20	6/3/20	6/3/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		768	832	1410	2080	1620	1520	1220	1330
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	28.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 7'	SP6 @ 10'	SP6 @ 13'	SP6 @ 15'
Analyte	Method	Date	6/3/20	6/3/20	6/3/20	6/3/20	6/4/20	6/4/20	6/4/20	6/4/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		960	752	1250	2030	1380	1390	720	1040
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 7'	SP7 @ 10'	SP7 @ 12'
Analyte	Method	Date	6/4/20	6/4/20	6/4/20	6/4/20	6/4/20	6/4/20	6/4/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		672	816	1040	2040	1390	1360	1360
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Oxy, MLMU #212 (3-24-20)

		Sample ID	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 7'	SP8 @ 10'	SP8 @ 13'	SP8 @ 16'
Analyte	Method	Date	6/5/20	6/5/20	6/5/20	6/5/20	6/5/20	6/5/20	6/5/20	6/5/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		800	800	1090	864	1360	1340	1150	1280
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		335	<10.0	<10.0	44.4	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		93.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'
Analyte	Method	Date	6/5/20	6/5/20	6/5/20	6/5/20	6/5/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		736	480	256	16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Oxy, MLMU #212 (3-24-20)

		Sample ID	SB1 @ 14'	SB1 @ 19'	SB1 @ 29'	SB1 @ 39'	SB1 @ 49'	SB1 @ 54'	SB1 @ 59'
Analyte	Method	Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		720	768	800	1070	624	288	304
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SB2 @ 17'	SB2 @ 22'	SB2 @ 32'	SB2 @ 42'	SB2 @ 44'	SB2 @ 52'
Analyte	Method	Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1140	1120	944	880	432	288
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SB3 @ 13'	SB3 @ 18'	SB3 @ 23'	SB3 @ 33'	SB3 @ 38'	SB3 @ 43'
Analyte	Method	Date	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20	12/9/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1230	976	800	1020	544	432
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SB4 @ 17'	SB4 @ 22'	SB4 @ 32'	SB4 @ 42'	SB4 @ 47'	SB4 @ 52'
Analyte	Method	Date	12/10/20	12/10/20	12/10/20	12/10/20	12/10/20	12/10/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1060	1060	944	816	400	320
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Oxy, MLMU #212 (3-24-20)

		Sample ID	SB5 @ 5'	SB5 @ 10'	SB5 @ 15'	SB5 @ 25'	SB5 @ 35'	SB5 @ 40'
Analyte	Method	Date	12/10/20	12/10/20	12/10/20	12/10/20	12/10/20	12/10/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		16.0	<16.0	64.0	64.0	64.0	64.0
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a	n/a



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

June 15, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #212

Enclosed are the results of analyses for samples received by the laboratory on 06/09/20 16:52.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: N @ SURFACE (H001553-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.81	90.6	2.00	7.49		
Toluene*	<0.050	0.050	06/10/2020	ND	1.72	86.0	2.00	7.38		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.71	85.4	2.00	7.68		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	4.95	82.6	6.00	7.63		
Total BTX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	11.6	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: E @ SURFACE (H001553-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.81	90.6	2.00	7.49		
Toluene*	<0.050	0.050	06/10/2020	ND	1.72	86.0	2.00	7.38		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.71	85.4	2.00	7.68		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	4.95	82.6	6.00	7.63		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-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	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: W @ SURFACE (H001553-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

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	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: S @ SURFACE (H001553-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22	
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

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	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 1' (H001553-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 2' (H001553-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 3' (H001553-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 4' (H001553-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 7' (H001553-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 10' (H001553-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 1 @ 13' (H001553-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22	
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 1' (H001553-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	06/11/2020	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	06/10/2020	ND	206	103	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	214	107	200	0.936	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 2' (H001553-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 3' (H001553-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 4' (H001553-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 7' (H001553-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	21.1	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 10' (H001553-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 13' (H001553-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 2 @ 16' (H001553-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22	
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 3 @ 1' (H001553-20)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 3 @ 2' (H001553-21)

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	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 3 @ 3' (H001553-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.88	94.0	2.00	2.22		
Toluene*	<0.050	0.050	06/10/2020	ND	1.93	96.4	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	2.00	100	2.00	2.41		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.81	96.8	6.00	2.50		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

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	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 3 @ 4' (H001553-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 1' (H001553-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66		
Total BTX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 2' (H001553-25)

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	06/10/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/02/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 3' (H001553-26)

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	06/10/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/11/2020	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 4' (H001553-27)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 7' (H001553-28)

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	06/10/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/10/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.68	94.6	6.00	2.66	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 10' (H001553-29)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/11/2020	ND	416	104	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	06/11/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 13' (H001553-30)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	06/11/2020	ND	416	104	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	06/11/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 15' (H001553-31)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEx	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	06/11/2020	ND	416	104	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	06/11/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 1' (H001553-32)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	06/11/2020	ND	416	104	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	06/11/2020	ND	196	98.2	200	2.12	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	191	95.6	200	0.792	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 2' (H001553-33)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66	
Total BTX	<0.300	0.300	06/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	28.2	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 3' (H001553-34)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 4' (H001553-35)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEx	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 7' (H001553-36)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 10' (H001553-37)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 13' (H001553-38)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 5 @ 15' (H001553-39)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 1' (H001553-40)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 2' (H001553-41)

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	06/11/2020	ND	1.85	92.3	2.00	2.42	
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61	
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66	
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66	
Total BTEX	<0.300	0.300	06/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 3' (H001553-42)

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	06/11/2020	ND	1.85	92.3	2.00	2.42		
Toluene*	<0.050	0.050	06/11/2020	ND	1.89	94.5	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.95	97.5	2.00	2.66		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.68	94.6	6.00	2.66		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 4' (H001553-43)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2030	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 7' (H001553-44)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 10' (H001553-45)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 13' (H001553-46)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/11/2020	ND	416	104	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 6 @ 15' (H001553-47)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/11/2020	ND	432	108	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 1' (H001553-48)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/11/2020	ND	432	108	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 2' (H001553-49)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	06/11/2020	ND	432	108	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	06/10/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/10/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/10/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 3' (H001553-50)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 4' (H001553-51)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 7' (H001553-52)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	193	96.6	200	4.33	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	190	95.1	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 10' (H001553-53)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 7 @ 12' (H001553-54)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 1' (H001553-55)

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	06/11/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/11/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.29	88.1	6.00	0.140		
Total BTEX	<0.300	0.300	06/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	335	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	93.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 2' (H001553-56)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 3' (H001553-57)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 4' (H001553-58)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEx	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	44.4	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 7' (H001553-59)

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	06/10/2020	ND	1.94	96.8	2.00	0.418		
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509		
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114		
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140		
Total BTEX	<0.300	0.300	06/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 10' (H001553-60)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 13' (H001553-61)

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	06/10/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/10/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/10/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/10/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 8 @ 16' (H001553-62)

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	06/11/2020	ND	1.94	96.8	2.00	0.418	
Toluene*	<0.050	0.050	06/11/2020	ND	1.84	92.1	2.00	0.509	
Ethylbenzene*	<0.050	0.050	06/11/2020	ND	1.82	91.1	2.00	0.114	
Total Xylenes*	<0.150	0.150	06/11/2020	ND	5.29	88.1	6.00	0.140	
Total BTEX	<0.300	0.300	06/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 9 @ 1' (H001553-63)

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	06/12/2020	ND	1.84	91.8	2.00	4.63		
Toluene*	<0.050	0.050	06/12/2020	ND	1.88	94.2	2.00	4.74		
Ethylbenzene*	<0.050	0.050	06/12/2020	ND	1.95	97.3	2.00	4.55		
Total Xylenes*	<0.150	0.150	06/12/2020	ND	5.67	94.5	6.00	4.82		
Total BTEX	<0.300	0.300	06/12/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 9 @ 2' (H001553-64)

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	06/12/2020	ND	1.84	91.8	2.00	4.63		
Toluene*	<0.050	0.050	06/12/2020	ND	1.88	94.2	2.00	4.74		
Ethylbenzene*	<0.050	0.050	06/12/2020	ND	1.95	97.3	2.00	4.55		
Total Xylenes*	<0.150	0.150	06/12/2020	ND	5.67	94.5	6.00	4.82		
Total BTEX	<0.300	0.300	06/12/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 9 @ 3' (H001553-65)

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	06/12/2020	ND	1.84	91.8	2.00	4.63	
Toluene*	<0.050	0.050	06/12/2020	ND	1.88	94.2	2.00	4.74	
Ethylbenzene*	<0.050	0.050	06/12/2020	ND	1.95	97.3	2.00	4.55	
Total Xylenes*	<0.150	0.150	06/12/2020	ND	5.67	94.5	6.00	4.82	
Total BTEX	<0.300	0.300	06/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 9 @ 4' (H001553-66)

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	06/12/2020	ND	1.84	91.8	2.00	4.63	
Toluene*	<0.050	0.050	06/12/2020	ND	1.88	94.2	2.00	4.74	
Ethylbenzene*	<0.050	0.050	06/12/2020	ND	1.95	97.3	2.00	4.55	
Total Xylenes*	<0.150	0.150	06/12/2020	ND	5.67	94.5	6.00	4.82	
Total BTEX	<0.300	0.300	06/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 06/09/2020
 Reported: 06/15/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 06/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 9 @ 5' (H001553-67)

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	06/12/2020	ND	1.84	91.8	2.00	4.63		
Toluene*	<0.050	0.050	06/12/2020	ND	1.88	94.2	2.00	4.74		
Ethylbenzene*	<0.050	0.050	06/12/2020	ND	1.95	97.3	2.00	4.55		
Total Xylenes*	<0.150	0.150	06/12/2020	ND	5.67	94.5	6.00	4.82		
Total BTEx	<0.300	0.300	06/12/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2020	ND	432	108	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	06/11/2020	ND	196	97.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	06/11/2020	ND	197	98.3	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	06/11/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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

A handwritten signature in black ink, appearing to read "Celey D. Keene".



Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2476

1 of -

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

Relinquished By: 		Date: 6-9-20 Time: 1652		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Relinquished By:		Date: Time:		Received By:			
Delivered By: (Circle One) 0.4°C Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) 	

Released to Imaging: 2/5/2024 11:12:05 AM

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 1

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: OXY																						
City: Hobbs State: NM Zip: 88241				Attn: WADE																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy				City:																						
Project Name: MLMU 212 (3-24-20)				State: Zip:																						
Project Location: Eddy County, NM				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT								
H001553																										
11	SP1 @ 13'	G	1										6/1/20	2:14 PM	✓	✓	✓									
12	SP2 @ 1'												6/1/20	2:53 PM	✓	✓	✓									
13	SP2 @ 2'												6/1/20	3:14 PM	✓	✓	✓									
14	SP2 @ 3'												6/1/20	3:37 PM	✓	✓	✓									
15	SP2 @ 4'												6/2/20	8:35 AM	✓	✓	✓									
16	SP2 @ 7'												6/2/20	9:17 AM	✓	✓	✓									
17	SP2 @ 10'												6/2/20	10:04 AM	✓	✓	✓									
18	SP2 @ 13'												6/2/20	11:16 AM	✓	✓	✓									
19	SP2 @ 16'												6/2/20	11:56 AM	✓	✓	✓									
20	SP3 @ 1'												6/2/20	1:07 PM	✓	✓	✓									

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

Relinquished By:	Date: 6-9-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1652		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	0.4c	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	#113	Cool Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	KS	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3047

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company: OXY																							
City: Hobbs State: NM Zip: 88241				Attn: WADE																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner: Oxy				City:																							
Project Name: MLMU 212 (3-24-20)				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Simon Rendon				Fax #:																							
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT									
H001553																											
21	SP3 @ 2'	✓	✓										6/2/20	1:22 PM	✓	✓	✓										
22	SP3 @ 3'	✓	✓										6/2/20	1:40 PM	✓	✓	✓										
23	SP3 @ 4'	✓	✓										6/2/20	2:00 PM	✓	✓	✓										
24	SP4 @ 1'	✓	✓										6/2/20	2:49 PM	✓	✓	✓										
25	SP4 @ 2'	✓	✓										6/2/20	3:12 PM	✓	✓	✓										
26	SP4 @ 3'	✓	✓										6/2/20	3:30 PM	✓	✓	✓										
27	SP4 @ 4'	✓	✓										6/3/20	8:30 AM	✓	✓	✓										
28	SP4 @ 7'	✓	✓										6/3/20	9:12 AM	✓	✓	✓										
29	SP4 @ 10'	✓	✓										6/3/20	9:57 AM	✓	✓	✓										
36	SP4 @ 13'	✓	✓										6/3/20	10:51 AM	✓	✓	✓										

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

Relinquished By:	Date: 6-9-20 Time: 7:52	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Time:	Received By:	REMARKS:	
Delivered By: (Circle One)	Sample Condition	Checked By:		
Sampler - UPS - Bus - Other: 0.4c #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) 165		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



(505) 393-2326 FAX (505) 393-2476

4 of 7

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5 of 7

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: OXY																									
City: Hobbs State: NM Zip: 88241				Attn: WADE																									
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																									
Project #: Project Owner: Oxy				City:																									
Project Name: MLMU 212 (3-24-20)				State: Zip:																									
Project Location: Eddy County, NM				Phone #:																									
Sampler Name: Simon Rendon				Fax #:																									
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH EXT												
H001553																													
41	SP6 @ 2'	5	1										6/3/20	3:12 PM	✓	✓	✓												
42	SP6 @ 3'												6/3/20	3:22 PM	✓	✓	✓												
43	SP6 @ 4'												6/3/20	3:34 PM	✓	✓	✓												
44	SP6 @ 7'												6/4/20	8:43 AM	✓	✓	✓												
45	SP6 @ 10'												6/4/20	9:28 AM	✓	✓	✓												
46	SP6 @ 13'												6/4/20	10:23 AM	✓	✓	✓												
47	SP6 @ 15'												6/4/20	11:05 AM	✓	✓	✓												
48	SP7 @ 1'												6/4/20	11:30 AM	✓	✓	✓												
49	SP7 @ 2'												6/4/20	11:46 AM	✓	✓	✓												
50	SP7 @ 3'												6/4/20	11:59 AM	✓	✓	✓												

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

Relinquished By:	Date: 6-9-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1652		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
0.4c #113	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	h5		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6 of 10

Company Name: BBC International, Inc.						BILL TO								ANALYSIS REQUEST										
Project Manager: Cliff Brunson						P.O. #:																		
Address: P.O. Box 805						Company: OXY																		
City: Hobbs State: NM Zip: 88241						Attn: WADE																		
Phone #: 575-397-6388 Fax #: 575-397-0397						Address:																		
Project #: Project Owner: Oxy						City:																		
Project Name: MLMU 212 (3-24-20)						State: Zip:																		
Project Location: Eddy County, NM						Phone #:																		
Sampler Name: Simon Rendon						Fax #:																		
FOR LAB USE ONLY																								
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT						
H001553																								
51	SP7 @ 4'												6/4/20	12:47 PM	✓	✓	✓							
52	SP7 @ 7'												6/4/20	1:46 PM	✓	✓	✓							
53	SP7 @ 10'												6/4/20	2:53 PM	✓	✓	✓							
54	SP7 @ 12'												6/4/20	3:36 PM	✓	✓	✓							
55	SP8 @ 1'												6/5/20	8:37 AM	✓	✓	✓							
56	SP8 @ 2'												6/5/20	8:49 AM	✓	✓	✓							
57	SP8 @ 3'												6/5/20	9:02 AM	✓	✓	✓							
58	SP8 @ 4'												6/5/20	9:14 AM	✓	✓	✓							
59	SP8 @ 7'												6/5/20	10:00 AM	✓	✓	✓							
60	SP8 @ 10'												6/5/20	10:58 AM	✓	✓	✓							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																								
Relinquished By: 					Date: 6-9-20 Time: 1652	Received By: 					Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:					Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:								
Relinquished By:					Date:	Received By:					REMARKS:													
					Time:																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.4c #113										Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No					CHECKED BY: (Initials) HS									

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



(505) 393-2326 FAX (505) 393-2476

7 of 7

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

December 16, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #212

Enclosed are the results of analyses for samples received by the laboratory on 12/11/20 16:50.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/09/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 1 @ 14' (H003251-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 1 @ 19' (H003251-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 1 @ 29' (H003251-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 1 @ 39' (H003251-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	12/15/2020	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/09/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 1 @ 49' (H003251-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	12/15/2020	ND	416	104	400	0.00		

Sample ID: SB 1 @ 54' (H003251-06)

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	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 1 @ 59' (H003251-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 2 @ 17' (H003251-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	12/15/2020	ND	416	104	400	0.00	

Sample ID: SB 2 @ 22' (H003251-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	12/15/2020	ND	400	100	400	7.69	QM-07	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/09/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 2 @ 32' (H003251-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 2 @ 42' (H003251-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 2 @ 44' (H003251-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 2 @ 52' (H003251-13)

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	12/15/2020	ND	400	100	400	7.69	

Sample ID: SB 3 @ 13' (H003251-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	12/15/2020	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/09/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 3 @ 18' (H003251-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 3 @ 23' (H003251-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 3 @ 33' (H003251-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 3 @ 38' (H003251-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/15/2020	ND	400	100	400	7.69	

Sample ID: SB 3 @ 43' (H003251-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/15/2020	ND	400	100	400	7.69		

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/10/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 4 @ 17' (H003251-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 4 @ 22' (H003251-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 4 @ 32' (H003251-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 4 @ 42' (H003251-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/15/2020	ND	400	100	400	7.69	

Sample ID: SB 4 @ 47' (H003251-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/15/2020	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/10/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 4 @ 52' (H003251-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 5 @ 5' (H003251-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 5 @ 10' (H003251-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/15/2020	ND	400	100	400	7.69		

Sample ID: SB 5 @ 15' (H003251-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/15/2020	ND	400	100	400	7.69	

Sample ID: SB 5 @ 25' (H003251-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/15/2020	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/11/2020
 Reported: 12/16/2020
 Project Name: MLMU #212
 Project Number: (3-24-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/10/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SB 5 @ 35' (H003251-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/15/2020	ND	432	108	400	3.77		

Sample ID: SB 5 @ 40' (H003251-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/15/2020	ND	432	108	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

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

A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(P.1 ଷ୍ଟ4

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 13

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: OXY																						
City: Hobbs		State: NM Zip: 88241		Attn: WADE																						
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																						
Project #:		Project Owner: Oxy		City:																						
Project Name: MLMU 212 (3-24-20)				State: Zip:																						
Project Location: Lea County, NM				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTEX	TPH	EXT								
H003251																										
11	SB2 @ 42'	G	I			I					I		12/9/20	2:30 PM	✓											
12	SB2 @ 44'												12/9/20	2:47 PM	✓											
13	SB2 @ 52'												12/9/20	2:57 PM	✓											
14	SB3 @ 13'												12/9/20	3:28 PM	✓											
15	SB3 @ 18'												12/9/20	3:37 PM	✓											
16	SB3 @ 23'												12/9/20	3:51 PM	✓											
17	SB3 @ 33'												12/9/20	4:22 PM	✓											
18	SB3 @ 38'												12/9/20	4:36 PM	✓											
19	SB3 @ 43'												12/9/20	4:51 PM	✓											
20	SB4 @ 17'												12/10/20	12:41 PM	✓											

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

Relinquished By:	Date: 12-11-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1050		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240



(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(304)

[illegible]

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

Relinquished By:		Date:	Received By:	Phone Result:	Add'l Phone #:
		Time:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:		Date:		Fax Result:	Add'l Fax #:
		Time:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		(Initials)	
-1.1c #113		Yes <input type="checkbox"/> No <input type="checkbox"/>		YD.	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Appendix D

Laboratory Reports



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Clair Gonzales
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/31/2022 9:48:17 AM

JOB DESCRIPTION

MLMU #212
SDG NUMBER Lea County, NM

JOB NUMBER

880-23038-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/31/2022 9:48:17 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Laboratory Job ID: 880-23038-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	25
QC Sample Results	27
QC Association Summary	37
Lab Chronicle	44
Certification Summary	51
Method Summary	52
Sample Summary	53
Chain of Custody	54
Receipt Checklists	57

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Job ID: 880-23038-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-23038-1

Receipt

The samples were received on 12/22/2022 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

Receipt Exceptions

The following samples analyzed for method <TPH 1005> were received and analyzed from an unpreserved bulk soil jar.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-42738 and analytical batch 880-42636 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42708 and analytical batch 880-42809 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42707 and analytical batch 880-42806 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-23038-1

Date Collected: 12/20/22 10:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/28/22 14:41	12/30/22 11:35	1
1,4-Difluorobenzene (Surr)	71		70 - 130	12/28/22 14:41	12/30/22 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/30/22 13:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 18:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 18:13	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/28/22 08:21	12/28/22 18:13	1
o-Terphenyl	98		70 - 130	12/28/22 08:21	12/28/22 18:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		5.05		mg/Kg			12/30/22 10:56	1

Client Sample ID: SW-2

Lab Sample ID: 880-23038-2

Date Collected: 12/20/22 10:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/28/22 14:41	12/30/22 11:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/28/22 14:41	12/30/22 11:55	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-2

Lab Sample ID: 880-23038-2

Date Collected: 12/20/22 10:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/30/22 13:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:21	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/28/22 08:21	12/28/22 19:21	1
o-Terphenyl	112		70 - 130	12/28/22 08:21	12/28/22 19:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.6		5.04		mg/Kg			12/30/22 11:00	1

Client Sample ID: SW-3

Lab Sample ID: 880-23038-3

Date Collected: 12/20/22 10:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/28/22 14:41	12/30/22 12:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/28/22 14:41	12/30/22 12:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/28/22 14:41	12/30/22 12:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/28/22 14:41	12/30/22 12:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/28/22 14:41	12/30/22 12:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/28/22 14:41	12/30/22 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/28/22 14:41	12/30/22 12:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/28/22 14:41	12/30/22 12:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:43	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 880-23038-3

Date Collected: 12/20/22 10:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:43	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	12/28/22 08:21	12/28/22 19:43	1
o-Terphenyl	108		70 - 130	12/28/22 08:21	12/28/22 19:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.1		5.02		mg/Kg			12/30/22 11:05	1

Client Sample ID: SW-4

Lab Sample ID: 880-23038-4

Date Collected: 12/20/22 10:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 12:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/28/22 14:41	12/30/22 12:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/28/22 14:41	12/30/22 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:05	1
Total TPH	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/28/22 08:21	12/28/22 20:05	1
o-Terphenyl	99		70 - 130	12/28/22 08:21	12/28/22 20:05	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-4

Lab Sample ID: 880-23038-4

Date Collected: 12/20/22 10:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.49		5.00		mg/Kg			12/30/22 00:47	1

Client Sample ID: SW-5

Lab Sample ID: 880-23038-5

Date Collected: 12/20/22 10:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 12:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 12:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/28/22 14:41	12/30/22 12:58	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/28/22 14:41	12/30/22 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 20:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 20:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 20:28	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	12/28/22 08:21	12/28/22 20:28	1
o-Terphenyl	115		70 - 130	12/28/22 08:21	12/28/22 20:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.04		mg/Kg			12/30/22 01:01	1

Client Sample ID: SW-6

Lab Sample ID: 880-23038-6

Date Collected: 12/20/22 10:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 13:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 13:18	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-6

Lab Sample ID: 880-23038-6

Date Collected: 12/20/22 10:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 13:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 13:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 13:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/28/22 14:41	12/30/22 13:18	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130				12/28/22 14:41	12/30/22 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:50	1
Total TPH	<49.8	U	49.8		mg/Kg		12/28/22 08:21	12/28/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/28/22 08:21	12/28/22 20:50	1
o-Terphenyl	98		70 - 130				12/28/22 08:21	12/28/22 20:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.33		5.03		mg/Kg			12/30/22 01:06	1

Client Sample ID: SW-7

Lab Sample ID: 880-23038-7

Date Collected: 12/20/22 11:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/28/22 14:41	12/30/22 13:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/28/22 14:41	12/30/22 13:39	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-7

Lab Sample ID: 880-23038-7

Date Collected: 12/20/22 11:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:12	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	12/28/22 08:21	12/28/22 21:12	1
o-Terphenyl	96		70 - 130	12/28/22 08:21	12/28/22 21:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			12/30/22 01:10	1

Client Sample ID: SW-8

Lab Sample ID: 880-23038-8

Date Collected: 12/20/22 11:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 14:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 14:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 14:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 14:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 14:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/28/22 14:41	12/30/22 14:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/28/22 14:41	12/30/22 14:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 21:34	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-8

Lab Sample ID: 880-23038-8

Date Collected: 12/20/22 11:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 21:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 21:34	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/28/22 08:21	12/28/22 21:34	1
o-Terphenyl	106		70 - 130				12/28/22 08:21	12/28/22 21:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.57		4.95		mg/Kg			12/30/22 01:15	1

Client Sample ID: SW-9

Lab Sample ID: 880-23038-9

Date Collected: 12/20/22 11:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/28/22 14:41	12/30/22 14:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/28/22 14:41	12/30/22 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:57	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/28/22 08:21	12/28/22 21:57	1
o-Terphenyl	92		70 - 130				12/28/22 08:21	12/28/22 21:57	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-9

Lab Sample ID: 880-23038-9

Date Collected: 12/20/22 11:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.8		5.03		mg/Kg			12/30/22 01:29	1

Client Sample ID: SW-10

Lab Sample ID: 880-23038-10

Date Collected: 12/20/22 11:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 14:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 14:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/28/22 14:41	12/30/22 14:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/28/22 14:41	12/30/22 14:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 16:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 22:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 22:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 22:19	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/28/22 08:21	12/28/22 22:19	1
o-Terphenyl	96		70 - 130	12/28/22 08:21	12/28/22 22:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.9		5.01		mg/Kg			12/30/22 01:34	1

Client Sample ID: SW-11

Lab Sample ID: 880-23038-11

Date Collected: 12/20/22 11:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 16:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 16:06	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-11

Lab Sample ID: 880-23038-11

Date Collected: 12/20/22 11:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 16:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 16:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 16:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/22 14:41	12/30/22 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	39	S1-	70 - 130				12/28/22 14:41	12/30/22 16:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/28/22 14:41	12/30/22 16:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:04	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				12/28/22 08:21	12/28/22 23:04	1
o-Terphenyl	85		70 - 130				12/28/22 08:21	12/28/22 23:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		5.00		mg/Kg			12/30/22 01:39	1

Client Sample ID: SW-12

Lab Sample ID: 880-23038-12

Date Collected: 12/20/22 11:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/28/22 14:41	12/30/22 17:27	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/28/22 14:41	12/30/22 17:27	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-12

Lab Sample ID: 880-23038-12

Date Collected: 12/20/22 11:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 23:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 23:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 23:26	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/28/22 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/28/22 08:21	12/28/22 23:26	1
o-Terphenyl	105		70 - 130	12/28/22 08:21	12/28/22 23:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			12/30/22 01:43	1

Client Sample ID: SW-13

Lab Sample ID: 880-23038-13

Date Collected: 12/20/22 13:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 17:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 17:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 17:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 17:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 17:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	12/28/22 14:41	12/30/22 17:47	1
1,4-Difluorobenzene (Surr)	74		70 - 130	12/28/22 14:41	12/30/22 17:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:48	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-13

Lab Sample ID: 880-23038-13

Date Collected: 12/20/22 13:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:48	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				12/28/22 08:21	12/28/22 23:48	1
o-Terphenyl	115		70 - 130				12/28/22 08:21	12/28/22 23:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.96		mg/Kg			12/30/22 01:48	1

Client Sample ID: SW-14

Lab Sample ID: 880-23038-14

Date Collected: 12/20/22 13:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/28/22 14:41	12/30/22 18:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/28/22 14:41	12/30/22 18:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:09	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				12/28/22 08:21	12/29/22 00:09	1
o-Terphenyl	105		70 - 130				12/28/22 08:21	12/29/22 00:09	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-14

Lab Sample ID: 880-23038-14

Date Collected: 12/20/22 13:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128	F1	4.95		mg/Kg			12/30/22 01:53	1

Client Sample ID: SW-15

Lab Sample ID: 880-23038-15

Date Collected: 12/20/22 13:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 18:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 18:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/28/22 14:41	12/30/22 18:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/28/22 14:41	12/30/22 18:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 00:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 00:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 00:31	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/28/22 08:21	12/29/22 00:31	1
o-Terphenyl	97		70 - 130	12/28/22 08:21	12/29/22 00:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			12/30/22 02:07	1

Client Sample ID: SW-16

Lab Sample ID: 880-23038-16

Date Collected: 12/20/22 13:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 18:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 18:50	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-16

Lab Sample ID: 880-23038-16

Date Collected: 12/20/22 13:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 18:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 18:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 18:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130				12/28/22 14:41	12/30/22 18:50	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				12/28/22 14:41	12/30/22 18:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:52	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				12/28/22 08:21	12/29/22 00:52	1
o-Terphenyl	109		70 - 130				12/28/22 08:21	12/29/22 00:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			12/30/22 02:11	1

Client Sample ID: SW-17

Lab Sample ID: 880-23038-17

Date Collected: 12/20/22 13:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/28/22 14:41	12/30/22 19:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/28/22 14:41	12/30/22 19:11	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-17

Lab Sample ID: 880-23038-17

Date Collected: 12/20/22 13:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 01:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 01:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 01:14	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	12/28/22 08:21	12/29/22 01:14	1
o-Terphenyl	104		70 - 130	12/28/22 08:21	12/29/22 01:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			12/30/22 02:26	1

Client Sample ID: SW-18

Lab Sample ID: 880-23038-18

Date Collected: 12/20/22 13:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:41	12/30/22 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:41	12/30/22 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/28/22 14:41	12/30/22 19:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/28/22 14:41	12/30/22 19:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:36	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-18

Lab Sample ID: 880-23038-18

Date Collected: 12/20/22 13:50

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:36	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	12/28/22 08:21	12/29/22 01:36	1
o-Terphenyl	110		70 - 130	12/28/22 08:21	12/29/22 01:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			12/30/22 02:30	1

Client Sample ID: SW-19

Lab Sample ID: 880-23038-19

Date Collected: 12/20/22 14:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 19:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 19:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 19:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 19:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 19:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/22 14:41	12/30/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/28/22 14:41	12/30/22 19:52	1
1,4-Difluorobenzene (Surr)	76		70 - 130	12/28/22 14:41	12/30/22 19:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:58	1
Total TPH	<49.9	U	49.9		mg/Kg		12/28/22 08:21	12/29/22 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	12/28/22 08:21	12/29/22 01:58	1
o-Terphenyl	112		70 - 130	12/28/22 08:21	12/29/22 01:58	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-19

Lab Sample ID: 880-23038-19

Date Collected: 12/20/22 14:00

Matrix: Solid

Date Received: 12/22/22 13:00

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			12/30/22 02:35	1

Client Sample ID: SW-20

Lab Sample ID: 880-23038-20

Date Collected: 12/20/22 14:10

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 20:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 20:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 20:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 20:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:41	12/30/22 20:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/22 14:41	12/30/22 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/28/22 14:41	12/30/22 20:13	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/28/22 14:41	12/30/22 20:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/22 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 02:19	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/29/22 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	12/28/22 08:21	12/29/22 02:19	1
o-Terphenyl	98		70 - 130	12/28/22 08:21	12/29/22 02:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 02:40	1

Client Sample ID: SW-21

Lab Sample ID: 880-23038-21

Date Collected: 12/20/22 14:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 20:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 20:21	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-21

Lab Sample ID: 880-23038-21

Date Collected: 12/20/22 14:20

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 20:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/28/22 14:45	12/30/22 20:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 20:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/22 14:45	12/30/22 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				12/28/22 14:45	12/30/22 20:21	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/28/22 14:45	12/30/22 20:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/31/22 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/22 13:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 02:30	1
Total TPH	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/27/22 15:03	12/28/22 02:30	1
o-Terphenyl	100		70 - 130				12/27/22 15:03	12/28/22 02:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.2		4.97		mg/Kg			12/30/22 02:44	1

Client Sample ID: SW-22

Lab Sample ID: 880-23038-22

Date Collected: 12/20/22 14:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:45	12/30/22 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				12/28/22 14:45	12/30/22 20:42	1
1,4-Difluorobenzene (Surr)	77		70 - 130				12/28/22 14:45	12/30/22 20:42	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-22

Lab Sample ID: 880-23038-22

Date Collected: 12/20/22 14:30

Matrix: Solid

Date Received: 12/22/22 13:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/22 13:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:12	1
Total TPH	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/27/22 15:03	12/28/22 03:12	1
o-Terphenyl	100		70 - 130	12/27/22 15:03	12/28/22 03:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.67		4.99		mg/Kg			12/30/22 02:49	1

Client Sample ID: SW-23

Lab Sample ID: 880-23038-23

Date Collected: 12/20/22 14:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 08:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 08:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 08:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/22 14:52	12/30/22 08:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 08:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/22 14:52	12/30/22 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/27/22 14:52	12/30/22 08:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/22 14:52	12/30/22 08:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/22 13:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:32	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-23

Lab Sample ID: 880-23038-23

Date Collected: 12/20/22 14:40

Matrix: Solid

Date Received: 12/22/22 13:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:32	1
Total TPH	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/27/22 15:03	12/28/22 03:32	1
o-Terphenyl	96		70 - 130	12/27/22 15:03	12/28/22 03:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.16		5.03		mg/Kg			12/30/22 02:54	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-22971-A-1-H MS	Matrix Spike	97	111
880-22971-A-1-I MSD	Matrix Spike Duplicate	107	106
880-23038-1	SW-1	113	71
880-23038-1 MS	SW-1	95	87
880-23038-1 MSD	SW-1	100	95
880-23038-2	SW-2	117	105
880-23038-3	SW-3	115	102
880-23038-4	SW-4	110	99
880-23038-5	SW-5	120	83
880-23038-6	SW-6	99	63 S1-
880-23038-7	SW-7	113	104
880-23038-8	SW-8	118	103
880-23038-9	SW-9	111	102
880-23038-10	SW-10	111	104
880-23038-11	SW-11	39 S1-	89
880-23038-12	SW-12	114	98
880-23038-13	SW-13	75	74
880-23038-14	SW-14	115	96
880-23038-15	SW-15	118	101
880-23038-16	SW-16	69 S1-	64 S1-
880-23038-17	SW-17	117	103
880-23038-18	SW-18	116	102
880-23038-19	SW-19	118	76
880-23038-20	SW-20	104	108
880-23038-21	SW-21	90	88
880-23038-22	SW-22	91	77
880-23038-23	SW-23	101	106
880-23046-A-1-E MS	Matrix Spike	99	93
880-23046-A-1-F MSD	Matrix Spike Duplicate	101	87
LCS 880-42736/1-A	Lab Control Sample	94	110
LCS 880-42812/1-A	Lab Control Sample	98	93
LCS 880-42813/1-A	Lab Control Sample	103	92
LCSD 880-42736/2-A	Lab Control Sample Dup	95	110
LCSD 880-42812/2-A	Lab Control Sample Dup	99	95
LCSD 880-42813/2-A	Lab Control Sample Dup	78	98
MB 880-42727/5-A	Method Blank	93	105
MB 880-42736/5-A	Method Blank	97	106
MB 880-42812/5-A	Method Blank	96	90
MB 880-42813/5-A	Method Blank	78	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-23038-1	SW-1	103	98
880-23038-1 MS	SW-1	99	77
880-23038-1 MSD	SW-1	106	83
880-23038-2	SW-2	119	112
880-23038-3	SW-3	124	108
880-23038-4	SW-4	106	99
880-23038-5	SW-5	131 S1+	115
880-23038-6	SW-6	103	98
880-23038-7	SW-7	101	96
880-23038-8	SW-8	113	106
880-23038-9	SW-9	96	92
880-23038-10	SW-10	105	96
880-23038-11	SW-11	94	85
880-23038-12	SW-12	119	105
880-23038-13	SW-13	130	115
880-23038-14	SW-14	118	105
880-23038-15	SW-15	106	97
880-23038-16	SW-16	124	109
880-23038-17	SW-17	114	104
880-23038-18	SW-18	120	110
880-23038-19	SW-19	127	112
880-23038-20	SW-20	107	98
880-23038-21	SW-21	99	100
880-23038-22	SW-22	98	100
880-23038-23	SW-23	96	96
890-3702-A-10-D MS	Matrix Spike	104	95
890-3702-A-10-E MSD	Matrix Spike Duplicate	89	81
LCS 880-42738/2-A	Lab Control Sample	87	92
LCS 880-42762/2-A	Lab Control Sample	111	108
LCSD 880-42738/3-A	Lab Control Sample Dup	92	99
LCSD 880-42762/3-A	Lab Control Sample Dup	102	112
MB 880-42738/1-A	Method Blank	89	92
MB 880-42762/1-A	Method Blank	103	105

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42727/5-A

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:29	12/29/22 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	12/28/22 14:29	12/29/22 13:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/28/22 14:29	12/29/22 13:27	1

Lab Sample ID: MB 880-42736/5-A

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 14:52	12/30/22 01:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/27/22 14:52	12/30/22 01:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/22 14:52	12/30/22 01:02	1

Lab Sample ID: LCS 880-42736/1-A

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.09127		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08777		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1797		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08649		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-42736/2-A

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09400		mg/Kg		94	70 - 130	8	35

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42736/2-A

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08590		mg/Kg		86	70 - 130	6	35
Ethylbenzene	0.100	0.08224		mg/Kg		82	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1701		mg/Kg		85	70 - 130	6	35
o-Xylene	0.100	0.08304		mg/Kg		83	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-22971-A-1-H MS

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.09104		mg/Kg		91	70 - 130
Toluene	<0.00202	U	0.0998	0.08327		mg/Kg		83	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.08184		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1697		mg/Kg		84	70 - 130
o-Xylene	<0.00202	U	0.0998	0.08106		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-22971-A-1-I MSD

Matrix: Solid

Analysis Batch: 42843

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08095		mg/Kg		81	70 - 130	12	35
Toluene	<0.00202	U	0.100	0.08157		mg/Kg		81	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.08407		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1740		mg/Kg		86	70 - 130	2	35
o-Xylene	<0.00202	U	0.100	0.08447		mg/Kg		83	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-42812/5-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:41	12/30/22 11:13	1

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-42812/5-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:41	12/30/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/28/22 14:41	12/30/22 11:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/28/22 14:41	12/30/22 11:13	1

Lab Sample ID: LCS 880-42812/1-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1019		mg/Kg		102	70 - 130
Toluene	0.100	0.09987		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09433		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-42812/2-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1080		mg/Kg		108	70 - 130	6	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Ethylbenzene	0.100	0.09631		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		106	70 - 130	1	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-23038-1 MS

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 42812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08874		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.0998	0.08861		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08211		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1815		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08849		mg/Kg		88	70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-23038-1 MS

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 42812

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-23038-1 MSD

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 42812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09316		mg/Kg		94	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.09087		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0990	0.08657		mg/Kg		87	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1919		mg/Kg		97	70 - 130	6	35
o-Xylene	<0.00200	U	0.0990	0.09371		mg/Kg		94	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-42813/5-A

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:45	12/30/22 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:45	12/30/22 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:45	12/30/22 11:56	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	78		70 - 130	12/28/22 14:45	12/30/22 11:56	1			
1,4-Difluorobenzene (Surr)	87		70 - 130	12/28/22 14:45	12/30/22 11:56	1			

Lab Sample ID: LCS 880-42813/1-A

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09811		mg/Kg		98	70 - 130
Toluene	0.100	0.08936		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09609		mg/Kg		96	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-42813/1-A

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42813

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-42813/2-A

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42813

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Benzene			0.100	0.1124		mg/Kg		112	70 - 130	14	35
Toluene			0.100	0.09152		mg/Kg		92	70 - 130	2	35
Ethylbenzene			0.100	0.07731		mg/Kg		77	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1539		mg/Kg		77	70 - 130	19	35
o-Xylene			0.100	0.07760		mg/Kg		78	70 - 130	21	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-23046-A-1-E MS

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42813

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.1065		mg/Kg		106	70 - 130		
Toluene	<0.00201	U	0.101	0.09443		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00201	U	0.101	0.08587		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1805		mg/Kg		90	70 - 130		
o-Xylene	<0.00201	U	0.101	0.09083		mg/Kg		90	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-23046-A-1-F MSD

Matrix: Solid

Analysis Batch: 42923

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42813

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.08544		mg/Kg		86	70 - 130	22	35
Toluene	<0.00201	U	0.0990	0.08757		mg/Kg		88	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0990	0.07895		mg/Kg		80	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1678		mg/Kg		85	70 - 130	7	35
o-Xylene	<0.00201	U	0.0990	0.08432		mg/Kg		85	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-42738/1-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1
Total TPH	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/27/22 15:03	12/27/22 21:39	1
o-Terphenyl	92		70 - 130	12/27/22 15:03	12/27/22 21:39	1

Lab Sample ID: LCS 880-42738/2-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	716.5		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	1000	676.5	*-	mg/Kg		68	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-42738/3-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	750.0		mg/Kg		75	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	723.4		mg/Kg		72	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-3702-A-10-D MS

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1121		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *-	999	975.7		mg/Kg		98	70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3702-A-10-D MS

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42738

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-3702-A-10-E MSD

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1034		mg/Kg		100	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	999	833.6		mg/Kg		83	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: MB 880-42762/1-A

Matrix: Solid

Analysis Batch: 42771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 17:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 17:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 17:06	1
Total TPH	<50.0	U	50.0		mg/Kg		12/28/22 08:21	12/28/22 17:06	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	103		70 - 130	12/28/22 08:21	12/28/22 17:06	1			
o-Terphenyl	105		70 - 130	12/28/22 08:21	12/28/22 17:06	1			

Lab Sample ID: LCS 880-42762/2-A

Matrix: Solid

Analysis Batch: 42771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	781.4		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	970.4		mg/Kg		97	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	108		70 - 130

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-42762/3-A

Matrix: Solid

Analysis Batch: 42771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	835.9		mg/Kg		84	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 880-23038-1 MS

Matrix: Solid

Analysis Batch: 42771

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 42762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	984.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	959.5		mg/Kg		96	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: 880-23038-1 MSD

Matrix: Solid

Analysis Batch: 42771

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 42762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1044		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1010		mg/Kg		101	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	83		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42707/1-A

Matrix: Solid

Analysis Batch: 42806

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/29/22 16:53	1

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-42707/2-A

Matrix: Solid

Analysis Batch: 42806

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-42707/3-A

Matrix: Solid

Analysis Batch: 42806

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-23030-A-12-D MS

Matrix: Solid

Analysis Batch: 42806

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	144	F1 F2	1260	1224	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-23030-A-12-E MSD

Matrix: Solid

Analysis Batch: 42806

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	144	F1 F2	1260	1556	F1 F2	mg/Kg		112	90 - 110	24	20

Lab Sample ID: MB 880-42708/1-A

Matrix: Solid

Analysis Batch: 42809

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 00:33	1

Lab Sample ID: LCS 880-42708/2-A

Matrix: Solid

Analysis Batch: 42809

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-42708/3-A

Matrix: Solid

Analysis Batch: 42809

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-23038-4 MS

Matrix: Solid

Analysis Batch: 42809

Client Sample ID: SW-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.49		250	260.9		mg/Kg		102	90 - 110

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-23038-4 MSD										Client Sample ID: SW-4		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 42809												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	6.49		250	261.1		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 880-23038-14 MS										Client Sample ID: SW-14		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 42809												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	128	F1	248	380.3		mg/Kg		102	90 - 110			

Lab Sample ID: 880-23038-14 MSD										Client Sample ID: SW-14		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 42809												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	128	F1	248	325.1	F1	mg/Kg		80	90 - 110	16	20	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

GC VOA

Prep Batch: 42727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42727/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-23	SW-23	Total/NA	Solid	5035	
MB 880-42736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22971-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-22971-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 42812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	5035	
880-23038-2	SW-2	Total/NA	Solid	5035	
880-23038-3	SW-3	Total/NA	Solid	5035	
880-23038-4	SW-4	Total/NA	Solid	5035	
880-23038-5	SW-5	Total/NA	Solid	5035	
880-23038-6	SW-6	Total/NA	Solid	5035	
880-23038-7	SW-7	Total/NA	Solid	5035	
880-23038-8	SW-8	Total/NA	Solid	5035	
880-23038-9	SW-9	Total/NA	Solid	5035	
880-23038-10	SW-10	Total/NA	Solid	5035	
880-23038-11	SW-11	Total/NA	Solid	5035	
880-23038-12	SW-12	Total/NA	Solid	5035	
880-23038-13	SW-13	Total/NA	Solid	5035	
880-23038-14	SW-14	Total/NA	Solid	5035	
880-23038-15	SW-15	Total/NA	Solid	5035	
880-23038-16	SW-16	Total/NA	Solid	5035	
880-23038-17	SW-17	Total/NA	Solid	5035	
880-23038-18	SW-18	Total/NA	Solid	5035	
880-23038-19	SW-19	Total/NA	Solid	5035	
880-23038-20	SW-20	Total/NA	Solid	5035	
MB 880-42812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23038-1 MS	SW-1	Total/NA	Solid	5035	
880-23038-1 MSD	SW-1	Total/NA	Solid	5035	

Prep Batch: 42813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-21	SW-21	Total/NA	Solid	5035	
880-23038-22	SW-22	Total/NA	Solid	5035	
MB 880-42813/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42813/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42813/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23046-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23046-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 42843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-23	SW-23	Total/NA	Solid	8021B	42736
MB 880-42727/5-A	Method Blank	Total/NA	Solid	8021B	42727
MB 880-42736/5-A	Method Blank	Total/NA	Solid	8021B	42736
LCS 880-42736/1-A	Lab Control Sample	Total/NA	Solid	8021B	42736
LCSD 880-42736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42736
880-22971-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	42736
880-22971-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42736

Analysis Batch: 42923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-21	SW-21	Total/NA	Solid	8021B	42813
880-23038-22	SW-22	Total/NA	Solid	8021B	42813
MB 880-42813/5-A	Method Blank	Total/NA	Solid	8021B	42813
LCS 880-42813/1-A	Lab Control Sample	Total/NA	Solid	8021B	42813
LCSD 880-42813/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42813
880-23046-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	42813
880-23046-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42813

Analysis Batch: 42924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	8021B	42812
880-23038-2	SW-2	Total/NA	Solid	8021B	42812
880-23038-3	SW-3	Total/NA	Solid	8021B	42812
880-23038-4	SW-4	Total/NA	Solid	8021B	42812
880-23038-5	SW-5	Total/NA	Solid	8021B	42812
880-23038-6	SW-6	Total/NA	Solid	8021B	42812
880-23038-7	SW-7	Total/NA	Solid	8021B	42812
880-23038-8	SW-8	Total/NA	Solid	8021B	42812
880-23038-9	SW-9	Total/NA	Solid	8021B	42812
880-23038-10	SW-10	Total/NA	Solid	8021B	42812
880-23038-11	SW-11	Total/NA	Solid	8021B	42812
880-23038-12	SW-12	Total/NA	Solid	8021B	42812
880-23038-13	SW-13	Total/NA	Solid	8021B	42812
880-23038-14	SW-14	Total/NA	Solid	8021B	42812
880-23038-15	SW-15	Total/NA	Solid	8021B	42812
880-23038-16	SW-16	Total/NA	Solid	8021B	42812
880-23038-17	SW-17	Total/NA	Solid	8021B	42812
880-23038-18	SW-18	Total/NA	Solid	8021B	42812
880-23038-19	SW-19	Total/NA	Solid	8021B	42812
880-23038-20	SW-20	Total/NA	Solid	8021B	42812
MB 880-42812/5-A	Method Blank	Total/NA	Solid	8021B	42812
LCS 880-42812/1-A	Lab Control Sample	Total/NA	Solid	8021B	42812
LCSD 880-42812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42812
880-23038-1 MS	SW-1	Total/NA	Solid	8021B	42812
880-23038-1 MSD	SW-1	Total/NA	Solid	8021B	42812

Analysis Batch: 42982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	Total BTEX	
880-23038-2	SW-2	Total/NA	Solid	Total BTEX	
880-23038-3	SW-3	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 42982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-4	SW-4	Total/NA	Solid	Total BTEX	
880-23038-5	SW-5	Total/NA	Solid	Total BTEX	
880-23038-6	SW-6	Total/NA	Solid	Total BTEX	
880-23038-7	SW-7	Total/NA	Solid	Total BTEX	
880-23038-8	SW-8	Total/NA	Solid	Total BTEX	
880-23038-9	SW-9	Total/NA	Solid	Total BTEX	
880-23038-10	SW-10	Total/NA	Solid	Total BTEX	
880-23038-11	SW-11	Total/NA	Solid	Total BTEX	
880-23038-12	SW-12	Total/NA	Solid	Total BTEX	
880-23038-13	SW-13	Total/NA	Solid	Total BTEX	
880-23038-14	SW-14	Total/NA	Solid	Total BTEX	
880-23038-15	SW-15	Total/NA	Solid	Total BTEX	
880-23038-16	SW-16	Total/NA	Solid	Total BTEX	
880-23038-17	SW-17	Total/NA	Solid	Total BTEX	
880-23038-18	SW-18	Total/NA	Solid	Total BTEX	
880-23038-19	SW-19	Total/NA	Solid	Total BTEX	
880-23038-20	SW-20	Total/NA	Solid	Total BTEX	
880-23038-21	SW-21	Total/NA	Solid	Total BTEX	
880-23038-22	SW-22	Total/NA	Solid	Total BTEX	
880-23038-23	SW-23	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 42636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-21	SW-21	Total/NA	Solid	8015B NM	42738
880-23038-22	SW-22	Total/NA	Solid	8015B NM	42738
880-23038-23	SW-23	Total/NA	Solid	8015B NM	42738
MB 880-42738/1-A	Method Blank	Total/NA	Solid	8015B NM	42738
LCS 880-42738/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42738
LCSD 880-42738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42738
890-3702-A-10-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42738
890-3702-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42738

Prep Batch: 42738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-21	SW-21	Total/NA	Solid	8015NM Prep	
880-23038-22	SW-22	Total/NA	Solid	8015NM Prep	
880-23038-23	SW-23	Total/NA	Solid	8015NM Prep	
MB 880-42738/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42738/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3702-A-10-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3702-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 42762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	8015NM Prep	
880-23038-2	SW-2	Total/NA	Solid	8015NM Prep	
880-23038-3	SW-3	Total/NA	Solid	8015NM Prep	
880-23038-4	SW-4	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 42762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-5	SW-5	Total/NA	Solid	8015NM Prep	
880-23038-6	SW-6	Total/NA	Solid	8015NM Prep	
880-23038-7	SW-7	Total/NA	Solid	8015NM Prep	
880-23038-8	SW-8	Total/NA	Solid	8015NM Prep	
880-23038-9	SW-9	Total/NA	Solid	8015NM Prep	
880-23038-10	SW-10	Total/NA	Solid	8015NM Prep	
880-23038-11	SW-11	Total/NA	Solid	8015NM Prep	
880-23038-12	SW-12	Total/NA	Solid	8015NM Prep	
880-23038-13	SW-13	Total/NA	Solid	8015NM Prep	
880-23038-14	SW-14	Total/NA	Solid	8015NM Prep	
880-23038-15	SW-15	Total/NA	Solid	8015NM Prep	
880-23038-16	SW-16	Total/NA	Solid	8015NM Prep	
880-23038-17	SW-17	Total/NA	Solid	8015NM Prep	
880-23038-18	SW-18	Total/NA	Solid	8015NM Prep	
880-23038-19	SW-19	Total/NA	Solid	8015NM Prep	
880-23038-20	SW-20	Total/NA	Solid	8015NM Prep	
MB 880-42762/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42762/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42762/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23038-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
880-23038-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	8015B NM	42762
880-23038-2	SW-2	Total/NA	Solid	8015B NM	42762
880-23038-3	SW-3	Total/NA	Solid	8015B NM	42762
880-23038-4	SW-4	Total/NA	Solid	8015B NM	42762
880-23038-5	SW-5	Total/NA	Solid	8015B NM	42762
880-23038-6	SW-6	Total/NA	Solid	8015B NM	42762
880-23038-7	SW-7	Total/NA	Solid	8015B NM	42762
880-23038-8	SW-8	Total/NA	Solid	8015B NM	42762
880-23038-9	SW-9	Total/NA	Solid	8015B NM	42762
880-23038-10	SW-10	Total/NA	Solid	8015B NM	42762
880-23038-11	SW-11	Total/NA	Solid	8015B NM	42762
880-23038-12	SW-12	Total/NA	Solid	8015B NM	42762
880-23038-13	SW-13	Total/NA	Solid	8015B NM	42762
880-23038-14	SW-14	Total/NA	Solid	8015B NM	42762
880-23038-15	SW-15	Total/NA	Solid	8015B NM	42762
880-23038-16	SW-16	Total/NA	Solid	8015B NM	42762
880-23038-17	SW-17	Total/NA	Solid	8015B NM	42762
880-23038-18	SW-18	Total/NA	Solid	8015B NM	42762
880-23038-19	SW-19	Total/NA	Solid	8015B NM	42762
880-23038-20	SW-20	Total/NA	Solid	8015B NM	42762
MB 880-42762/1-A	Method Blank	Total/NA	Solid	8015B NM	42762
LCS 880-42762/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42762
LCSD 880-42762/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42762
880-23038-1 MS	SW-1	Total/NA	Solid	8015B NM	42762
880-23038-1 MSD	SW-1	Total/NA	Solid	8015B NM	42762

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 42800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Total/NA	Solid	8015 NM	
880-23038-2	SW-2	Total/NA	Solid	8015 NM	
880-23038-3	SW-3	Total/NA	Solid	8015 NM	
880-23038-4	SW-4	Total/NA	Solid	8015 NM	
880-23038-5	SW-5	Total/NA	Solid	8015 NM	
880-23038-6	SW-6	Total/NA	Solid	8015 NM	
880-23038-7	SW-7	Total/NA	Solid	8015 NM	
880-23038-8	SW-8	Total/NA	Solid	8015 NM	
880-23038-9	SW-9	Total/NA	Solid	8015 NM	
880-23038-10	SW-10	Total/NA	Solid	8015 NM	
880-23038-11	SW-11	Total/NA	Solid	8015 NM	
880-23038-12	SW-12	Total/NA	Solid	8015 NM	
880-23038-13	SW-13	Total/NA	Solid	8015 NM	
880-23038-14	SW-14	Total/NA	Solid	8015 NM	
880-23038-15	SW-15	Total/NA	Solid	8015 NM	
880-23038-16	SW-16	Total/NA	Solid	8015 NM	
880-23038-17	SW-17	Total/NA	Solid	8015 NM	
880-23038-18	SW-18	Total/NA	Solid	8015 NM	
880-23038-19	SW-19	Total/NA	Solid	8015 NM	
880-23038-20	SW-20	Total/NA	Solid	8015 NM	
880-23038-21	SW-21	Total/NA	Solid	8015 NM	
880-23038-22	SW-22	Total/NA	Solid	8015 NM	
880-23038-23	SW-23	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Soluble	Solid	DI Leach	
880-23038-2	SW-2	Soluble	Solid	DI Leach	
880-23038-3	SW-3	Soluble	Solid	DI Leach	
MB 880-42707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-42707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23030-A-12-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23030-A-12-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 42708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-4	SW-4	Soluble	Solid	DI Leach	
880-23038-5	SW-5	Soluble	Solid	DI Leach	
880-23038-6	SW-6	Soluble	Solid	DI Leach	
880-23038-7	SW-7	Soluble	Solid	DI Leach	
880-23038-8	SW-8	Soluble	Solid	DI Leach	
880-23038-9	SW-9	Soluble	Solid	DI Leach	
880-23038-10	SW-10	Soluble	Solid	DI Leach	
880-23038-11	SW-11	Soluble	Solid	DI Leach	
880-23038-12	SW-12	Soluble	Solid	DI Leach	
880-23038-13	SW-13	Soluble	Solid	DI Leach	
880-23038-14	SW-14	Soluble	Solid	DI Leach	
880-23038-15	SW-15	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 42708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-16	SW-16	Soluble	Solid	DI Leach	
880-23038-17	SW-17	Soluble	Solid	DI Leach	
880-23038-18	SW-18	Soluble	Solid	DI Leach	
880-23038-19	SW-19	Soluble	Solid	DI Leach	
880-23038-20	SW-20	Soluble	Solid	DI Leach	
880-23038-21	SW-21	Soluble	Solid	DI Leach	
880-23038-22	SW-22	Soluble	Solid	DI Leach	
880-23038-23	SW-23	Soluble	Solid	DI Leach	
MB 880-42708/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42708/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42708/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23038-4 MS	SW-4	Soluble	Solid	DI Leach	
880-23038-4 MSD	SW-4	Soluble	Solid	DI Leach	
880-23038-14 MS	SW-14	Soluble	Solid	DI Leach	
880-23038-14 MSD	SW-14	Soluble	Solid	DI Leach	

Analysis Batch: 42806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-1	SW-1	Soluble	Solid	300.0	42707
880-23038-2	SW-2	Soluble	Solid	300.0	42707
880-23038-3	SW-3	Soluble	Solid	300.0	42707
MB 880-42707/1-A	Method Blank	Soluble	Solid	300.0	42707
LCS 880-42707/2-A	Lab Control Sample	Soluble	Solid	300.0	42707
LCSD 880-42707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42707
880-23030-A-12-D MS	Matrix Spike	Soluble	Solid	300.0	42707
880-23030-A-12-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	42707

Analysis Batch: 42809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23038-4	SW-4	Soluble	Solid	300.0	42708
880-23038-5	SW-5	Soluble	Solid	300.0	42708
880-23038-6	SW-6	Soluble	Solid	300.0	42708
880-23038-7	SW-7	Soluble	Solid	300.0	42708
880-23038-8	SW-8	Soluble	Solid	300.0	42708
880-23038-9	SW-9	Soluble	Solid	300.0	42708
880-23038-10	SW-10	Soluble	Solid	300.0	42708
880-23038-11	SW-11	Soluble	Solid	300.0	42708
880-23038-12	SW-12	Soluble	Solid	300.0	42708
880-23038-13	SW-13	Soluble	Solid	300.0	42708
880-23038-14	SW-14	Soluble	Solid	300.0	42708
880-23038-15	SW-15	Soluble	Solid	300.0	42708
880-23038-16	SW-16	Soluble	Solid	300.0	42708
880-23038-17	SW-17	Soluble	Solid	300.0	42708
880-23038-18	SW-18	Soluble	Solid	300.0	42708
880-23038-19	SW-19	Soluble	Solid	300.0	42708
880-23038-20	SW-20	Soluble	Solid	300.0	42708
880-23038-21	SW-21	Soluble	Solid	300.0	42708
880-23038-22	SW-22	Soluble	Solid	300.0	42708
880-23038-23	SW-23	Soluble	Solid	300.0	42708
MB 880-42708/1-A	Method Blank	Soluble	Solid	300.0	42708
LCS 880-42708/2-A	Lab Control Sample	Soluble	Solid	300.0	42708

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 42809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-42708/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42708
880-23038-4 MS	SW-4	Soluble	Solid	300.0	42708
880-23038-4 MSD	SW-4	Soluble	Solid	300.0	42708
880-23038-14 MS	SW-14	Soluble	Solid	300.0	42708
880-23038-14 MSD	SW-14	Soluble	Solid	300.0	42708

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 880-23038-1

Date Collected: 12/20/22 10:00

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 13:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 18:13	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42707	12/27/22 13:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42806	12/30/22 10:56	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 880-23038-2

Date Collected: 12/20/22 10:10

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 13:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 19:21	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42707	12/27/22 13:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42806	12/30/22 11:00	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 880-23038-3

Date Collected: 12/20/22 10:20

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 19:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42707	12/27/22 13:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42806	12/30/22 11:05	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 880-23038-4

Date Collected: 12/20/22 10:30

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-4

Lab Sample ID: 880-23038-4

Date Collected: 12/20/22 10:30

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 20:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 00:47	CH	EET MID

Client Sample ID: SW-5

Lab Sample ID: 880-23038-5

Date Collected: 12/20/22 10:40

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 20:28	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:01	CH	EET MID

Client Sample ID: SW-6

Lab Sample ID: 880-23038-6

Date Collected: 12/20/22 10:50

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 20:50	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:06	CH	EET MID

Client Sample ID: SW-7

Lab Sample ID: 880-23038-7

Date Collected: 12/20/22 11:00

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 21:12	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-7

Lab Sample ID: 880-23038-7

Date Collected: 12/20/22 11:00

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:10	CH	EET MID

Client Sample ID: SW-8

Lab Sample ID: 880-23038-8

Date Collected: 12/20/22 11:10

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 21:34	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:15	CH	EET MID

Client Sample ID: SW-9

Lab Sample ID: 880-23038-9

Date Collected: 12/20/22 11:20

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 21:57	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:29	CH	EET MID

Client Sample ID: SW-10

Lab Sample ID: 880-23038-10

Date Collected: 12/20/22 11:30

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 16:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 22:19	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:34	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-11
Date Collected: 12/20/22 11:40
Date Received: 12/22/22 13:00

Lab Sample ID: 880-23038-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 23:04	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:39	CH	EET MID

Client Sample ID: SW-12
Date Collected: 12/20/22 11:50
Date Received: 12/22/22 13:00

Lab Sample ID: 880-23038-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:43	CH	EET MID

Client Sample ID: SW-13
Date Collected: 12/20/22 13:00
Date Received: 12/22/22 13:00

Lab Sample ID: 880-23038-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 17:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/28/22 23:48	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:48	CH	EET MID

Client Sample ID: SW-14
Date Collected: 12/20/22 13:10
Date Received: 12/22/22 13:00

Lab Sample ID: 880-23038-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-14

Lab Sample ID: 880-23038-14

Date Collected: 12/20/22 13:10

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 00:09	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 01:53	CH	EET MID

Client Sample ID: SW-15

Lab Sample ID: 880-23038-15

Date Collected: 12/20/22 13:20

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 00:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:07	CH	EET MID

Client Sample ID: SW-16

Lab Sample ID: 880-23038-16

Date Collected: 12/20/22 13:30

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 00:52	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:11	CH	EET MID

Client Sample ID: SW-17

Lab Sample ID: 880-23038-17

Date Collected: 12/20/22 13:40

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 01:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-17

Lab Sample ID: 880-23038-17

Date Collected: 12/20/22 13:40

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:26	CH	EET MID

Client Sample ID: SW-18

Lab Sample ID: 880-23038-18

Date Collected: 12/20/22 13:50

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 01:36	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:30	CH	EET MID

Client Sample ID: SW-19

Lab Sample ID: 880-23038-19

Date Collected: 12/20/22 14:00

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 01:58	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:35	CH	EET MID

Client Sample ID: SW-20

Lab Sample ID: 880-23038-20

Date Collected: 12/20/22 14:10

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42812	12/28/22 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/29/22 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42762	12/28/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42771	12/29/22 02:19	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:40	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Client Sample ID: SW-21

Lab Sample ID: 880-23038-21

Date Collected: 12/20/22 14:20

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42813	12/28/22 14:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42923	12/30/22 20:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:44	CH	EET MID

Client Sample ID: SW-22

Lab Sample ID: 880-23038-22

Date Collected: 12/20/22 14:30

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42813	12/28/22 14:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42923	12/30/22 20:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/31/22 10:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 03:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:49	CH	EET MID

Client Sample ID: SW-23

Lab Sample ID: 880-23038-23

Date Collected: 12/20/22 14:40

Matrix: Solid

Date Received: 12/22/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42736	12/27/22 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/30/22 08:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42982	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42800	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42708	12/27/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42809	12/30/22 02:54	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU #212

Job ID: 880-23038-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23038-1	SW-1	Solid	12/20/22 10:00	12/22/22 13:00
880-23038-2	SW-2	Solid	12/20/22 10:10	12/22/22 13:00
880-23038-3	SW-3	Solid	12/20/22 10:20	12/22/22 13:00
880-23038-4	SW-4	Solid	12/20/22 10:30	12/22/22 13:00
880-23038-5	SW-5	Solid	12/20/22 10:40	12/22/22 13:00
880-23038-6	SW-6	Solid	12/20/22 10:50	12/22/22 13:00
880-23038-7	SW-7	Solid	12/20/22 11:00	12/22/22 13:00
880-23038-8	SW-8	Solid	12/20/22 11:10	12/22/22 13:00
880-23038-9	SW-9	Solid	12/20/22 11:20	12/22/22 13:00
880-23038-10	SW-10	Solid	12/20/22 11:30	12/22/22 13:00
880-23038-11	SW-11	Solid	12/20/22 11:40	12/22/22 13:00
880-23038-12	SW-12	Solid	12/20/22 11:50	12/22/22 13:00
880-23038-13	SW-13	Solid	12/20/22 13:00	12/22/22 13:00
880-23038-14	SW-14	Solid	12/20/22 13:10	12/22/22 13:00
880-23038-15	SW-15	Solid	12/20/22 13:20	12/22/22 13:00
880-23038-16	SW-16	Solid	12/20/22 13:30	12/22/22 13:00
880-23038-17	SW-17	Solid	12/20/22 13:40	12/22/22 13:00
880-23038-18	SW-18	Solid	12/20/22 13:50	12/22/22 13:00
880-23038-19	SW-19	Solid	12/20/22 14:00	12/22/22 13:00
880-23038-20	SW-20	Solid	12/20/22 14:10	12/22/22 13:00
880-23038-21	SW-21	Solid	12/20/22 14:20	12/22/22 13:00
880-23038-22	SW-22	Solid	12/20/22 14:30	12/22/22 13:00
880-23038-23	SW-23	Solid	12/20/22 14:40	12/22/22 13:00

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946



Page 1 of 1
23538

12/31/2022

Client Name	JR Oil	Site Manager	Brittany Long								
Project Name	MLMU #212	Contact Info	Brittany.Long@tetratech.com								
Project Location (county, state)	Lea County, NM	Project #:	212C-MD-02888								
Invoice to	Tetra Tech, Inc										
Receiving Laboratory	Eurofins Xenco	Sampler Signature	Gabe Huerta								
Comments											
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)				
		YEAR	DATE					TIME			
	SW-1	12/20/2022	10 00	X	X	1					
	SW-2	12/20/2022	10 10	X	X	1					
	SW-3	12/20/2022	10 20	X	X	1					
	SW-4	12/20/2022	10 30	X	X	1					
	SW-5	12/20/2022	10 40	X	X	1					
	SW-6	12/20/2022	10 50	X	X	1					
	SW-7	12/20/2022	11 00	X	X	1					
	SW-8	12/20/2022	11 10	X	X	1					
	SW-9	12/20/2022	11 20	X	X	1					
	SW-10	12/20/2022	11 30	X	X	1					
Relinquished by	Gabriel Huerta	Date	12-22-22	Time	1300	Received by	[Signature]	Date	12/22/22	Time	1300
Relinquished by		Date		Time		Received by		Date		Time	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY	REMARKS:	BTEX 8021B	
		TPH TX1005 (Ext to C35)	
Sample Temperature	0810.5	TPH 8015M (GRO - DRO - ORO)	
		PAH 8270C	
402		Total Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Volatiles	
		TCLP Semi Volatiles	
		RCI	
		GC/MS Vol 8260B / 624	
		GC/MS Semi Vol 8270C/625	
		PCB s 8082 / 608	
		NORM	
		PLM (Asbestos)	
		Chloride	
		Chloride Sulfate TDS	
		General Water Chemistry (see attached list)	
		Anion/Cation Balance	
		Asbestos	

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

23038

12/31/2022

Client Name	JR Oil	Site Manager	Brittany Long
Project Name	MLMU #212	Contact Info	Brittany.Long@tetratech.com
Project Location (county, state)	Lea County, NM	Project #:	212C-MD-02888
Invoice to	Tetra Tech, Inc		
Receiving Laboratory	Eurofins Xenco	Sampler Signature	Gabe Huerta
Comments			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
	SW-11	12/20/2022	11 40	X	X	X			1
	SW-12	12/20/2022	11 50	X	X	X			1
	SW-13	12/20/2022	13 00	X	X	X			1
	SW-14	12/20/2022	13 10	X	X	X			1
	SW-15	12/20/2022	13 20	X	X	X			1
	SW-16	12/20/2022	13 30	X	X	X			1
	SW-17	12/20/2022	13 40	X	X	X			1
	SW-18	12/20/2022	13 50	X	X	X			1
	SW-19	12/20/2022	14 00	X	X	X			1
	SW-20	12/20/2022	14 10	X	X	X			1

Relinquished by	Date	Time	Received by	Date	Time
Gabriel Huerta	12-20-22	1300	[Signature]	12/21/22	1800
Relinquished by	Date	Time	Received by	Date	Time

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi Vol 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Asbestos

LAB USE ONLY

REMARKS:

Standard

- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Loc: 880
23038

Page 3 of 3

23039

12/31/2022

[illegible]

LAB USE ONLY								REMARKS									
		X	X	X				BTEX	TX1005 (Ext to C35)								
		X	X	X				TPH	8015M (GRO - DRO - ORO)								
								PAH	8270C								
								Total Metals	Ag As Ba Cd Cr Pb Se Hg								
								TCLP Metals	Ag As Ba Cd Cr Pb Se Hg								
								TCLP Volatiles									
								TCLP Semi Volatiles									
								RCI									
								GC/MS Vol	8260B / 624								
								GC/MS Semi Vol	8270C/625								
								PCB s	8082 / 608								
								NORM									
								PLM (Asbestos)									
			X	X	X			Chloride									
								Chloride Sulfate TDS									
								General Water Chemistry (see attached list)									
								Anion/Cation Balance									
								Asbestos									

Page 5 of 57

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-23038-1
SDG Number: Lea County, NM

Login Number: 23038

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

Action 267850

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 267850
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Closure approved. 48 hour sampling notifications were not attached. Samples will not be accepted in the future should C-141N notifications not be submitted for every day that samples are collected for closure per 19.15.29.12(D)1(a) NMAC.	2/5/2024