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	nAPP2209453022
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Nikki Mishler	Contact Telephone: 432-315-0134
Contact email: Nikki.Mishler@cdevinc.com	Incident # nAPP2209453022
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.41010 Longitude -103.41863
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chimichanga 12 State Com CTB #2 (501H – 503H)	Site Type: Production Facility
Date Release Discovered: 4/4/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	12	22S	034E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 0.75	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
The heater treater PRV opened due to high pressure on the vessel. With the pressure loss, the separator was flooded, and fluids were sent to the flare. The released crude oil ignited but was immediately self-extinguished. Based on an initial visual inspection of the impacted area, it appears most of the released fluid was consumed by the fire. Based on the square footage of the impacted soil, which was mainly overspray, (4000 sq. ft.) of surface soil, and an estimated depth of impact of approximately 1" of potential soil absorption, accounting for porosity and saturation % of the soils (caliche and sand), an estimated 0.75 bbls of crude oil was released.

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The released fluids resulted in a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, submitted via the OCD Permitting NOR Application as a Major release by Nikki Mishler on 04/04/2022.	

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: Nikki Mishler Title: Sr. Environmental Representative

Signature: _____ Date: _____

email: Nikki.Mishler @cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
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?	unknown (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
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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: Nikki Mishler Title: Sr. Environmental Representative

Signature: _____ Date: _____

email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
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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: ~~Nikki Mishler~~ MONTGOMERY FLOYD Title: ~~Sr. Environmental Representative~~ ENV.

Signature: [signature] Date: 9-18-23

email: ~~Nikki.Mishler@cdevinc.com~~ montgomery.floyd@permianres.com Telephone: ~~432-634-8722~~ 425-8321

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: Scott Rodgers Date: 12/18/2023

Printed Name: Scott Rodgers Title: Environmental Specialist Advanced

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Oil Conservation Division

Incident ID	nAPP2209453022
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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: Nikki Mishler Title: Sr. Environmental Representative

Signature: _____ Date: _____

email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Production, Inc.
Chimichanga 12 State COM CTB #2 (501H-503H)
Lea County, New Mexico
Unit Letter "A", Section 12, Township 22 South, Range 34 East
Latitude: 32.41010° North, Longitude: 103.41863° West
NMOCD Reference #: nAPP2209453022

Prepared For:

Centennial Resource Production, Inc.
300 N. Marienfeld St. Suite 1000
Midland, TX 79701

Prepared By:

TRC Environmental Corporation
10 Desta Drive, Suite #130E
Midland, TX 79705

August 2023

Matthew Green, P.G.
Senior Project Manager

Jonathan Repman, P.G.
Office Practice Lead

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INTRODUCTION

TRC Environmental Corporation (TRC), on behalf of Centennial Resource Production, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Chimichanga 12 State Com CTB #2 (501H-503H). The legal description of the Release Site is Unit Letter "A", Section 12, Township 22 South, Range 34 East, in Lea County, New Mexico. The Release Site GPS coordinates are 32.41010° North and 103.41863°West. Please reference Figure 1 for the Site Location Map, Figure 2 for the Site Details & Soil Sample Location Map (Delineation Samples), Figure 3 for the Site Details & Soil Sample Location Map (Confirmation Samples), and Figure 4 for the Karst Potential Map.

On April 4, 2022, a reportable release was discovered by Centennial at the Chimichanga 12 State Com CTB #2 (501-503H) (Release Site). The heater treater pop-off valve opened due to high pressure. Following decompression of the vessel, the separator was flooded, resulting in a release at the flare. The released crude oil ignited but was immediately self-extinguished. The Release was reported as approximately 0.75 barrels of crude oil released with zero (0) barrels of crude oil recovered. On April 4, 2022, Centennial reported the fire and Release to the NMOCD District 1 Office located in Hobbs, New Mexico and the Release was assigned incident number nAPP2209453022. A Release Notification and Corrective Action Form (Form C-141) was subsequently submitted to the NMOCD on April 7, 2022. The Form C-141 is provided as Appendix C.

Photographic documentation for the Chimichanga 12 State Com CTB #2 (501-503H) Release Site is provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by the United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Release Site. An expanded search of the USGS database identified the closest registered water well is USGS Well #: 322424103255801 located approximately eight tenths (0.8) of a mile southwest of the Release Site. The average depth of groundwater for USGS Well #: 322424103255801 is recorded at approximately twenty-three (23) feet below ground surface (bgs). No water wells were observed within one-thousand feet of the Release Site. No surface water was observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, the most stringent soil remediation levels will be assigned to the Release Site as a result of this criterion.

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 1, 2022, TRC utilized a hand auger to collect six (6) delineation soil samples (COMP-1 @ Surface, COMP-1 @ 6", COMP-2 @ Surface, COMP-2 @ 6", COMP-3 @ Surface, and COMP-3 @ 6") from within the Release Site. Sample depths for the delineation soil samples collected

were based on visual and olfactory observations. Please reference Table 1 Delineation Sample Results: Concentrations of Benzene, BTEX, TPH, and Chloride in Soil and Figure 2 for delineation soil sample locations.

On September 22, 2022, based on delineation soil sample results, TRC commenced excavation and remediation activities at the Release Site utilizing heavy equipment and manual means. Excavated soil was stockpiled on a polyethylene liner at the Site pending disposal. Excavation activities were conducted in a manner which protected the integrity of the production equipment. TRC hand spotted all surface equipment and excavated by hand, all impacted material within two (2) feet of any production equipment.

On September 28, 2022, TRC, collected four (4) composite soil samples (BH-1 @ 18", BH-2 @ 12", BH-3 @ 6", and BH-4 @ 6") from the floor of the excavated area. In addition, four (4) composite soil samples (NW-1 @ 12", NW-2 @ 6", EW-1 @ 12", and WW-1 @ 12") were collected from the sidewalls excavated area. Samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, TX. for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) concentrations using EPA Method SW 846-8015M, and chloride concentrations using EPA Method E 300.0. A review of laboratory analytical results indicated composite confirmation soil samples NW-1 @ 12", NW-2 @ 6", EW-1 @ 12", WW-1 @ 12", BH-2 @ 12", BH-3 @ 6", and BH-4 @ 6" exhibited concentrations of TPH above applicable NMOCD regulatory guidelines. Please reference Table 2 and Figure 3 for sample locations.

On October 12, 2022, based on the confirmation sample results, TRC conducted further excavation activities to address the areas represented by composite soil samples NW-1 @ 12", NW-2 @ 6", EW-1 @ 12", WW-1 @ 12", BH-2 @ 12", BH-3 @ 6", and BH-4 @ 6" which exceeded NMOCD regulatory guidelines for concentrations of TPH.

On October 20, 2022, TRC collected four (4) composite sidewall confirmation soil samples (NW-1A @ 12", NW-2A @ 12", EW-1A @ 12", and WW-1A @ 12") from the areas represented by the points NW-1 @ 12", NW-2 @ 12", EW-1 @ 12", and WW-1 @ 12". In addition, TRC collected three (3) composite bottomhole confirmation soil samples (BH-2A @ 18", BH-3A @ 12", and BH-4A @ 12") represented by the sample points BH-2 @ 12", BH-3 @ 6", and BH-4 @ 6". TRC collected one (1) additional bottomhole sample (BH-5 @ 6") from the expanded excavation area. The laboratory analytical results indicated the collected composite confirmation soil samples were less than the NMOCD regulatory guidelines. Please reference Table 2 and Figure 3 for sample locations.

On December 2, 2022, TRC collected two (2) split composite confirmation soil samples (Comp NW-1 and Comp BH-3) with the Landowner. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, TX for BTEX, TPH, and chloride analysis. The composite confirmation soil samples exhibited BTEX, TPH, and chloride concentrations less than the NMOCD regulatory guidelines. Please reference Table 2 and Figure 3 for sample locations.

Please refer to Table 1 (Delineation Sample Results), Table 2 (Confirmation Sample Results), and Table 3 (Landowner Confirmation Split Sample Results) for summaries of the Concentrations of Benzene, BTEX, TPH, and Chloride in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVIES

Between September and December 2022, throughout excavation and remediations activities, TRC transported the impacted stockpiled soil (approximately 58 cubic yards) to the Sundance disposal facility in Lea County, NM. Additional impacted soil was transported to disposal by a second-party contractor. On December 22, 2022, the excavated area was backfilled with non-impacted "like" soil from a landowner approved source and the Site was recontoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples collected from the excavation, impacted soils were brought to surface and confirmation soil samples exhibited concentrations less than the applicable NMOCD regulatory guidelines. TRC, on behalf of Centennial, respectfully requests the NMOCD grant site closure to the Chimichanga 12 State Com CTB #2 (501H-503H) Release Site (NMOCD Incident ID: nAPP2209453022).

LIMITATIONS

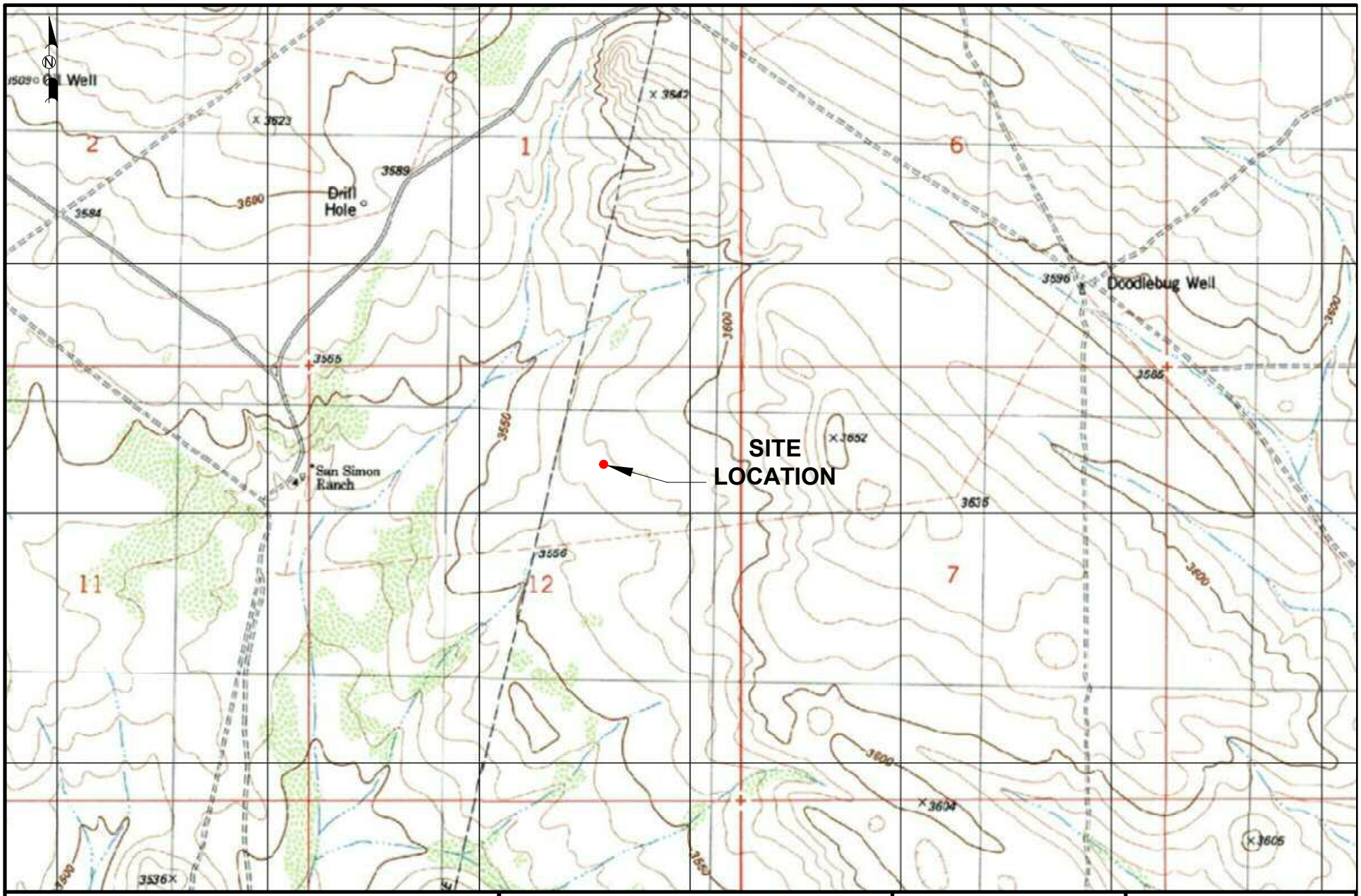
TRC has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Centennial Resource Production, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Centennial Resource Production, Inc.

DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210

Copy 2: Montgomery Floyd
Centennial Resource Development, Inc.
300 N. Marienfeld St. Suite 1000
Midland, TX 79701

Copy 3: TRC Environmental Corporation.
10 Desta Drive, Suite 130E
Midland, TX 79705



LEGEND:

Native Grassland

Surface Water

800 400 0 400 800

Distance in Feet

Figure 1
Site Location Map

Centennial Resource Production, Inc.
Chimichanga 12 State Corn CTB #2 (501H-503H)
Township 22S, Section 12, Range 034E
Lea County, NM

Scale: 1" = 800'
CAD By: JPR
Checked By: MKG
Draft: September 14, 2022
Lat. N 32.41010° Long. W 103.41863°

TRC

LEGEND:

Impacted Area

Composite Soil Sample Location

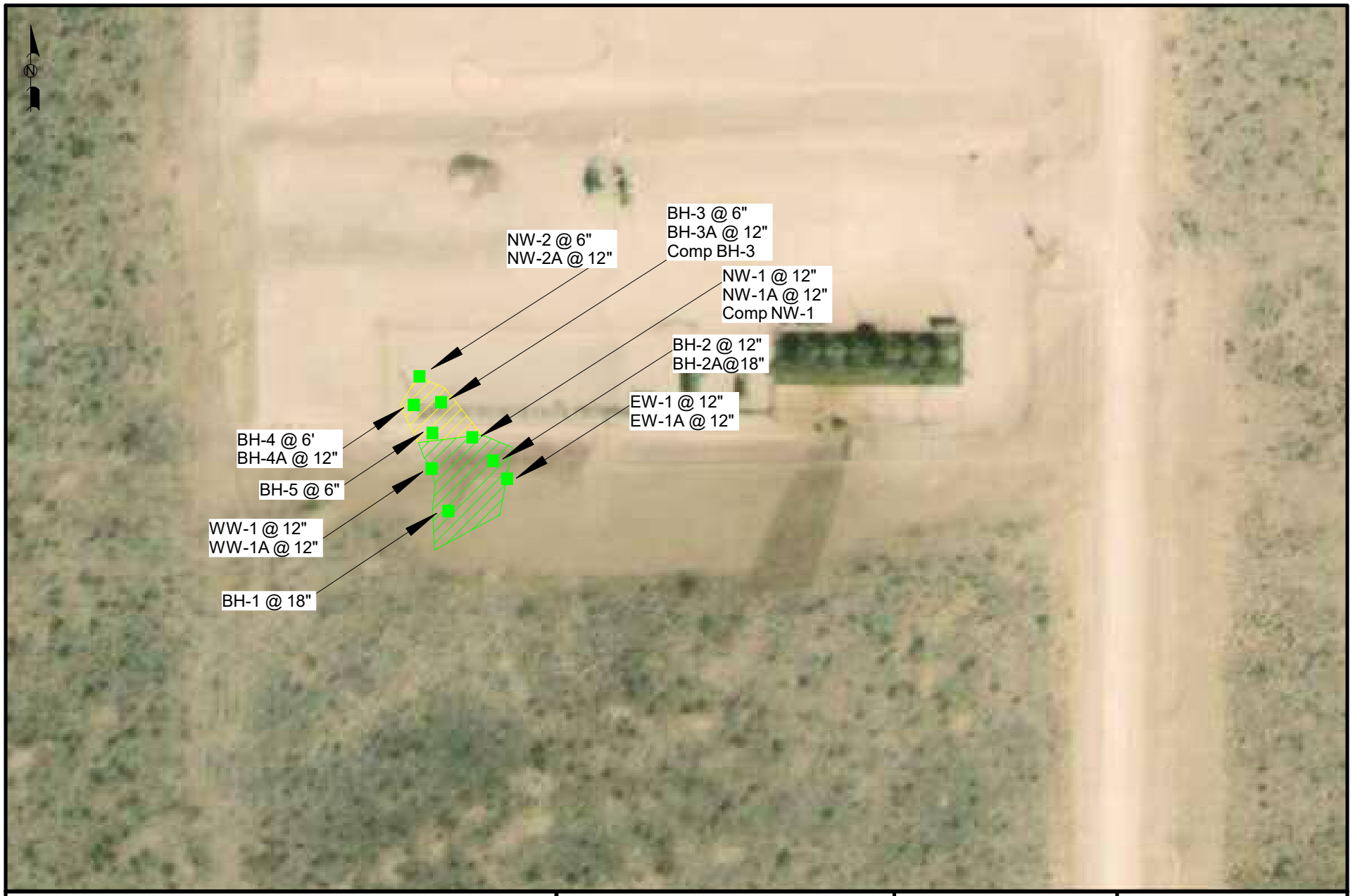
100 50 0 50 100

Distance in Feet

Figure 2
Site Details & Soil Sample Location Map
Centennial Resource Production, Inc.
Chimichanga 12 State Corn CTB #2 (501H-503H)
Township 22S, Section 12, Range 034E
Lea County, NM

Scale: 1" = 100'
Map By: MKG
Checked By: JPR
Draft: September 14, 2022
Lat. N 32.41010° Long. W 103.41863°

TRC



LEGEND:

- Suspected Impacted Area
- Impacted Area
- Confirmation Composite Soil Sample Location

100 50 0 50 100

Distance in Feet

Figure 3
Site Details & Soil Sample Location Map
Centennial Resource Production, Inc.
Chimichanga 12 State Corn CTB #2 (501H-503H)
Township 22S, Section 12, Range 034E
Lea County, NM

Scale: 1" = 100'
Map By: MKG
Checked By: JPR
Draft: December 22, 2022
Lat. N 32.41010° Long. W 103.41863°

TRC

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LEGEND:

- Low Karst Potential
- Medium Karst Potential
- Critical Karst Potential

Figure 4
Karst Potential Map

Centennial Resource Production, Inc.
Chimichanga 12 State Com CTB #2 (501H-503H)
Township 22S, Section 12, Range 34E
Lea County, NM

Scale: 1" = 1/2 Mile
CAD By: CS
Checked By: MG
Draft: July 18, 2023
Lat. N 32.41010° Long. W 103.41863°

TRC
10 Desta Drive, Suite 130E
Midland, Texas 79703
432.520.7720

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TABLE 1
DELINEATION SAMPLE RESULTS:
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
CENTENNIAL RESOURCE PRODUCTION, INC.
CHIMICHANGA 12 STATE COM CTB #2 501H-503H RELEASE SITE
CDEVID #: 00274
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Limits		**10**					**50**				**100**	**600**
COMP-1 @ Surface	06/01/22	<0.00101	0.00128	0.00517	0.0242	0.0129	0.04355	226	12,200	2,610	**15,000**	205
COMP-1 @ 6"	06/01/22	<0.00103	0.00255	0.107	0.523	0.296	0.92855	1,440	11,300	1,850	**14,600**	43.5
COMP-2 @ Surface	06/01/22	<0.00100	0.00131	0.00135	0.00328	0.00144	0.00738	<25.0	114	<25.0	**114**	15.0
COMP-2 @ 6"	06/01/22	<0.00101	<0.00101	<0.00101	0.00217	<0.00101	0.00217	<25.3	73.8	<25.3	73.8	7.76
COMP-3 @ Surface	06/01/22	<0.00100	0.00116	<0.00100	0.00217	0.00108	0.00441	<25.0	<25.0	<25.0	<25.0	24.9
COMP-3 @ 6"	06/01/22	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	10.4

Yellow Highlighted and Bold Indicates Analyte above NMOCD Standards

Released to Imaging: 12/18/2023 3:52:25 PM
Received by OCD: 9/18/2023 4:33:51 PM

TABLE 2
CONFIRMATION SAMPLE RESULTS:
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
CENTENNIAL RESOURCE PRODUCTION, INC.
CHIMICHANGA 12 STATE COM CTB #2 501H-503H RELEASE SITE
LEA COUNTY, NEW MEXICO
CDEVID PROJECT #: 00274

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Limits		**10**					**50**				**100**	**600**
Sidewalls Sample Results												
NW-1 @ 12"	09/28/22	<0.00101	<0.00101	<0.00101	<0.00202	0.00133	0.00133	41.8	2,670	418	**3,130**	43.4
NW-1A @ 12"	10/20/22	-	-	-	-	-	-	<27.8	56.4	<27.8	56.4	-
NW-2 @ 6"	09/28/22	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	<0.00206	<25.8	293	82.2	**375**	214
NW-2A @ 12"	10/20/22	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	-
EW-1 @ 12"	09/28/22	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	<0.00204	<25.5	487	80.0	**567**	79.2
EW-1A @ 12"	10/20/22	-	-	-	-	-	-	<28.4	<28.4	<28.4	<28.4	-
WW-1 @ 12"	09/28/22	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	<0.00204	<25.5	540	90.6	**631**	53.9
WW-1A @ 12"	10/20/22	-	-	-	-	-	-	<27.5	<27.5	<27.5	<27.5	-
Bottomhole Sample Results												
BH-1 @ 18"	09/28/22	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<25.3	70.3	<25.3	70.3	22.5
BH-2 @ 12"	09/28/22	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	<25.3	127	<25.3	**127**	42.9
BH-2A @ 18"	10/20/22	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	-
BH-3 @ 6"	09/28/22	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00202	131	5,770	1,130	**7,030**	65.3
BH-3A @ 12"	10/20/22	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	-
BH-4 @ 6"	09/28/22	<0.00119	<0.00119	<0.00119	<0.00238	0.00212	0.00212	44.1	707	133	**884**	73.1
BH-4A @ 12"	10/20/22	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	-
BH-5 @ 6"	10/20/22	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	-

Yellow Highlighted and Bold Indicates Analyte above NMOCD Standards

Released to Imaging: 12/18/2023 3:52:25 PM

Received by OCD: 9/18/2023 4:33:51 PM

TABLE 3
LANDOWNER CONFIRMATION SPLIT SAMPLE RESULTS:
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
CENTENNIAL RESOURCE PRODUCTION, INC.
CHIMICHANGA 12 STATE COM CTB #2 501H-503H RELEASE SITE
LEA COUNTY, NEW MEXICO
CDEVID PROJECT #: 00274

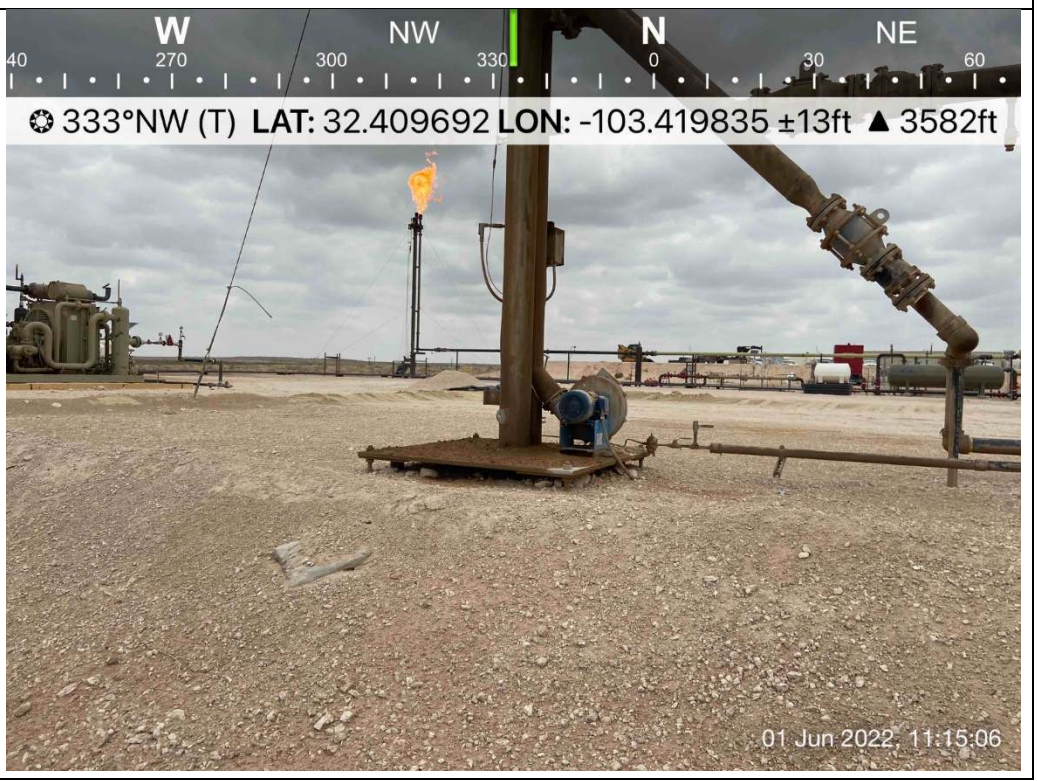
All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Limits		**10**					**50**				**100**	**600**
Landowner Split Sidewall Sample Results												
Comp NW-1	12/02/22	<0.00111	<0.00111	<0.00111	<0.00222	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	15.4
Landowner Split Bottomhole Sample Results												
Comp BH-3	12/02/22	<0.00115	<0.00115	<0.00115	<0.00230	<0.00115	<0.00230	<28.7	73.9	<28.7	73.9	9.40

Yellow Highlighted and Bold Indicates Analyte above NMOCD Standards

Photographic Documentation

Client: *Centennial Resources Production, Inc.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Lea County, NM*

Photograph No. 1 **Date:** **June 1, 2022** **Direction:** **West** **Description:** **View of impacted area.**	
Photograph No. 2 **Date:** **June 1, 2022** **Direction:** **Northwest** **Description:** **View of impacted area.**	

Photographic Documentation

Client: *Centennial Resources Production, Inc.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Lea County, NM*

Photograph No. 3 **Date:** **July 20, 2022** **Direction:** **Northeast** **Description:** **View of impacted area following flare removal.**	
Photograph No. 4 **Date:** **September 28, 2022** **Direction:** **Northwest** **Description:** **View of excavated area.**	

TRC

Photographic Documentation

Client: *Centennial Resources Production, Inc.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Lea County, NM*

Photograph No. 5 **Date:** **September 28, 2022** **Direction:** **South** **Description:** **View of excavated area.**	
Photograph No. 6 **Date:** **December 22, 2022** **Direction:** **West** **Description:** **View of backfilled area.**	

Photographic Documentation

Client: *Centennial Resources Production, Inc.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Lea County, NM*

Photograph No. 7 **Date:** **December 22, 2022** **Direction:** **South** **Description:** **View of backfilled area.**	
Photograph No. 8 **Date:** **December 22, 2022** **Direction:** **West** **Description:** **View of backfilled area.**	

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matthew Green

TRC Solutions- Midland, Texas

10 Desta Dr STE 150E

Midland, TX 79705

Project: Centennial Chimichanga 12 State 501H, 502H,& 503H

Project Number: 00274

Location: Lea County, NM

Lab Order Number: 2F06001

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 06/13/22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP-1 @ Surface	2F06001-01	Soil	06/01/22 12:20	06-03-2022 16:22
COMP-1 @ 6"	2F06001-02	Soil	06/01/22 12:22	06-03-2022 16:22
COMP-2 @ Surface	2F06001-03	Soil	06/01/22 12:23	06-03-2022 16:22
COMP-2 @ 6"	2F06001-04	Soil	06/01/22 12:25	06-03-2022 16:22
COMP-3 @ Surface	2F06001-05	Soil	06/01/22 12:28	06-03-2022 16:22
COMP-3 @ 6"	2F06001-06	Soil	06/01/22 12:31	06-03-2022 16:22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-1 @ Surface

2F06001-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Toluene	**0.00128**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Ethylbenzene	**0.00517**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Xylene (p/m)	**0.0242**	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Xylene (o)	**0.0129**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 21:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 21:22*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**205**	1.01	mg/kg dry	1	P2F0808	06/08/22 16:14	06/09/22 17:09	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**226**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
>C12-C28	**12200**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
>C28-C35	**2610**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/08/22 10:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/08/22 10:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**15000**	126	mg/kg dry	5	[CALC]	06/07/22 13:00	06/08/22 10:46	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-1 @ 6"

2F06001-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Toluene	**0.00255**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Ethylbenzene	**0.107**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Xylene (p/m)	**0.523**	0.00206	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Xylene (o)	**0.296**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*131 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:26*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.5**	1.03	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 02:41	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1440**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
>C12-C28	**11300**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
>C28-C35	**1850**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*144 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:26*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**14600**	129	mg/kg dry	5	[CALC]	06/07/22 13:00	06/07/22 18:26	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-2 @ Surface

2F06001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Toluene	**0.00131**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Ethylbenzene	**0.00135**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Xylene (p/m)	**0.00328**	0.00200	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Xylene (o)	**0.00144**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:48*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.0**	1.00	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 02:56	EPA 300.0	
% Moisture	ND	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
>C12-C28	**114**	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.3 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**114**	25.0	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 18:49	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-2 @ 6"

2F06001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Xylene (p/m)	**0.00217**	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:09*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.76**	1.01	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:11	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
>C12-C28	**73.8**	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**73.8**	25.3	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:12	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-3 @ Surface

2F06001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Toluene	**0.00116**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Xylene (p/m)	**0.00217**	0.00200	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Xylene (o)	**0.00108**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:30*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**24.9**	1.00	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:26	EPA 300.0	
% Moisture	ND	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.8 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:35	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-3 @ 6"

2F06001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*116 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.9 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:51*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.4**	1.01	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:40	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.9 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:57	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Blank (P2F0603-BLK1)				Prepared & Analyzed: 06/06/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.120*		*118*	*80-120*			
LCS (P2F0603-BS1)				Prepared & Analyzed: 06/06/22						
Benzene	0.0844	0.00100	mg/kg	0.100		84.4	80-120			
Toluene	0.0824	0.00100	"	0.100		82.4	80-120			
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.6	80-120			
Xylene (o)	0.0860	0.00100	"	0.100		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.149*		*"*	*0.120*		*124*	*80-120*			*S-GC*
LCS Dup (P2F0603-BSD1)				Prepared & Analyzed: 06/06/22						
Benzene	0.0898	0.00100	mg/kg	0.100		89.8	80-120	6.27	20	
Toluene	0.0884	0.00100	"	0.100		88.4	80-120	7.06	20	
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120	7.38	20	
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120	6.76	20	
Xylene (o)	0.0919	0.00100	"	0.100		91.9	80-120	6.63	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.148*		*"*	*0.120*		*123*	*80-120*			*S-GC*
Calibration Blank (P2F0603-CCB1)				Prepared & Analyzed: 06/06/22						
Benzene	0.130		ug/kg							
Toluene	0.330		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.240		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		*"*	*0.120*		*117*	*80-120*			

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10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Calibration Blank (P2F0603-CCB2)				Prepared & Analyzed: 06/06/22						
Benzene	0.150		ug/kg							
Toluene	0.240		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.340		"							
Xylene (o)	0.180		"							
Surrogate: 1,4-Difluorobenzene	*0.109*		*"*	*0.120*		*90.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.120*		*113*	*80-120*			
Calibration Check (P2F0603-CCV1)				Prepared & Analyzed: 06/06/22						
Benzene	0.102	0.00100	mg/kg	0.102		99.6	80-120			
Toluene	0.0997	0.00100	"	0.102		97.7	80-120			
Ethylbenzene	0.100	0.00100	"	0.102		98.2	80-120			
Xylene (p/m)	0.211	0.00200	"	0.204		103	80-120			
Xylene (o)	0.104	0.00100	"	0.102		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.143*		*"*	*0.120*		*119*	*75-125*			
Calibration Check (P2F0603-CCV2)				Prepared & Analyzed: 06/06/22						
Benzene	0.111	0.00100	mg/kg	0.102		109	80-120			
Toluene	0.104	0.00100	"	0.102		102	80-120			
Ethylbenzene	0.105	0.00100	"	0.102		103	80-120			
Xylene (p/m)	0.218	0.00200	"	0.204		107	80-120			
Xylene (o)	0.113	0.00100	"	0.102		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.147*		*"*	*0.120*		*122*	*75-125*			
Calibration Check (P2F0603-CCV3)				Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.115	0.00100	mg/kg	0.102		113	80-120			
Toluene	0.112	0.00100	"	0.102		110	80-120			
Ethylbenzene	0.110	0.00100	"	0.102		108	80-120			
Xylene (p/m)	0.227	0.00200	"	0.204		111	80-120			
Xylene (o)	0.116	0.00100	"	0.102		113	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.120*		*118*	*75-125*			

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10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Matrix Spike (P2F0603-MS1)	**Source: 2F03013-01**			Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.0649	0.00101	mg/kg dry	0.101	ND	64.2	80-120			QM-05
Toluene	0.217	0.00101	"	0.101	0.262	NR	80-120			QM-05
Ethylbenzene	0.469	0.00101	"	0.101	1.31	NR	80-120			QM-05
Xylene (p/m)	1.18	0.00202	"	0.202	4.42	NR	80-120			QM-05
Xylene (o)	0.622	0.00101	"	0.101	1.95	NR	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.147*		*"*	*0.121*		*121*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.121*		*104*	*80-120*			
Matrix Spike Dup (P2F0603-MSD1)	**Source: 2F03013-01**			Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.0685	0.00101	mg/kg dry	0.101	ND	67.8	80-120	5.36	20	QM-05
Toluene	0.207	0.00101	"	0.101	0.262	NR	80-120	NR	20	QM-05
Ethylbenzene	0.440	0.00101	"	0.101	1.31	NR	80-120	NR	20	QM-05
Xylene (p/m)	1.12	0.00202	"	0.202	4.42	NR	80-120	NR	20	QM-05
Xylene (o)	0.586	0.00101	"	0.101	1.95	NR	80-120	NR	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.121*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.141*		*"*	*0.121*		*117*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0706 - * DEFAULT PREP *** **										
Blank (P2F0706-BLK1)				Prepared & Analyzed: 06/07/22						
% Moisture	ND	0.1	%							
Duplicate (P2F0706-DUP1)		**Source: 2F06001-06**		Prepared & Analyzed: 06/07/22						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P2F0706-DUP2)		**Source: 2F07001-02**		Prepared & Analyzed: 06/07/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P2F0808 - * DEFAULT PREP *** **										
Calibration Blank (P2F0808-CCB2)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	-0.0290		mg/kg							
Calibration Check (P2F0808-CCV2)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Calibration Check (P2F0808-CCV3)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19.6		mg/kg	20.0		98.0	90-110			
Matrix Spike (P2F0808-MS1)		**Source: 2F03008-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	17000	52.1	mg/kg dry	2600	14400	102	80-120			
Matrix Spike (P2F0808-MS2)		**Source: 2F03009-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19700	55.6	mg/kg dry	2780	16500	117	80-120			
Matrix Spike Dup (P2F0808-MSD1)		**Source: 2F03008-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	16500	52.1	mg/kg dry	2600	14400	82.1	80-120	3.08	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0808 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2F0808-MSD2)	**Source: 2F03009-08**			Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	20100	55.6	mg/kg dry	2780	16500	130	80-120	1.90	20	QM-05
Batch P2F1006 - * DEFAULT PREP *** **										
Blank (P2F1006-BLK1)				Prepared & Analyzed: 06/10/22						
Chloride	ND	1.00	mg/kg							
LCS (P2F1006-BS1)				Prepared & Analyzed: 06/10/22						
Chloride	38.4		mg/kg	40.0		96.0	90-110			
LCS Dup (P2F1006-BSD1)				Prepared & Analyzed: 06/10/22						
Chloride	38.2		mg/kg	40.0		95.5	90-110	0.520	10	
Calibration Check (P2F1006-CCV1)				Prepared & Analyzed: 06/10/22						
Chloride	19.3		mg/kg	20.0		96.6	90-110			
Calibration Check (P2F1006-CCV2)				Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	19.2		mg/kg	20.0		96.2	90-110			
Matrix Spike (P2F1006-MS1)	**Source: 2F09029-24**			Prepared & Analyzed: 06/10/22						
Chloride	5680	10.6	mg/kg dry	532	4950	136	80-120			QM-05
Matrix Spike (P2F1006-MS2)	**Source: 2F09029-31**			Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	4570	11.0	mg/kg dry	549	3570	181	80-120			QM-05
Matrix Spike Dup (P2F1006-MSD1)	**Source: 2F09029-24**			Prepared & Analyzed: 06/10/22						
Chloride	5420	10.6	mg/kg dry	532	4950	88.0	80-120	4.60	20	

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10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F1006 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2F1006-MSD2)		**Source: 2F09029-31**		Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	4100	11.0	mg/kg dry	549	3570	95.7	80-120	10.8	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0703 - TX 1005										
Blank (P2F0703-BLK1)				Prepared & Analyzed: 06/07/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*99.9*		*"*	*100*		*99.9*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
LCS (P2F0703-BS1)				Prepared & Analyzed: 06/07/22						
C6-C12	866	25.0	mg/kg	1000		86.6	75-125			
>C12-C28	973	25.0	"	1000		97.3	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*55.4*		*"*	*50.0*		*111*	*70-130*			
LCS Dup (P2F0703-BSD1)				Prepared & Analyzed: 06/07/22						
C6-C12	901	25.0	mg/kg	1000		90.1	75-125	3.94	20	
>C12-C28	988	25.0	"	1000		98.8	75-125	1.58	20	
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*54.1*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (P2F0703-CCV1)				Prepared & Analyzed: 06/07/22						
C6-C12	495	25.0	mg/kg	500		99.1	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*55.2*		*"*	*50.0*		*110*	*70-130*			
Calibration Check (P2F0703-CCV2)				Prepared & Analyzed: 06/07/22						
C6-C12	438	25.0	mg/kg	500		87.5	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*50.1*		*"*	*50.0*		*100*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0703 - TX 1005										
Calibration Check (P2F0703-CCV3)				Prepared & Analyzed: 06/07/22						
C6-C12	486	25.0	mg/kg	500		97.1	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	*124*		"	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		"	*50.0*		*110*	*70-130*			
Matrix Spike (P2F0703-MS1)		**Source: 2F07002-01**		Prepared & Analyzed: 06/07/22						
C6-C12	812	25.5	mg/kg dry	1020	ND	79.6	75-125			
>C12-C28	954	25.5	"	1020	360	58.2	75-125			QM-05
Surrogate: 1-Chlorooctane	*121*		"	*102*		*119*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		"	*51.0*		*92.0*	*70-130*			
Matrix Spike Dup (P2F0703-MSD1)		**Source: 2F07002-01**		Prepared & Analyzed: 06/07/22						
C6-C12	788	25.5	mg/kg dry	1020	ND	77.2	75-125	3.04	20	
>C12-C28	1420	25.5	"	1020	360	104	75-125	56.6	20	QM-05
Surrogate: 1-Chlorooctane	*119*		"	*102*		*116*	*70-130*			
Surrogate: o-Terphenyl	*46.1*		"	*51.0*		*90.4*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/13/2022

Brent Barron, Laboratory Director/Technical Director

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TRC Solutions- Midland, Texas	Project:	Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number:	00274
Midland TX, 79705	Project Manager:	Matthew Green

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive Suite 130E

City/State/Zip: Midland,TX 79705

Telephone No: (432)520-7720 Fax No:

Sampler Signature: Matthew Green

e-mail: mgreen@trccompanies.com
nikki.mishler@cdevinc.com

Project Name: Centennial Chimichanga 12 State 501H, 502H, & 503H

Project #: ~00274

Project Loc: Lea County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 2F060001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: 8015B / TX 1005 Ext / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	COMP-1 @ Surface			6/1/2022	12:20		1	x								S	X								X			X		x
2	COMP-1 @ 6"			6/1/2022	12:22		1	x								S	X								X			X		x
3	COMP-2 @ Surface			6/1/2022	12:23		1	x								S	X								X			X		x
4	COMP-2 @ 6"			6/1/2022	12:25		1	x								S	X								X			X		x
5	COMP-3 @ Surface			6/1/2022	12:28		1	x								S	X								X			X		x
6	COMP-3 @ 6"			6/1/2022	12:31		1	x								S	X								X			X		x

Special Instructions:

	Date	Time		Date	Time
Relinquished by: Matt Green	6-3-22		Received by:		
Relinquished by:	6-3-22	16:22	Received by:		
Relinquished by:	Date	Time	Received by PBEL:	6/3/22	16:22

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.2 °C
Adjusted: 5.2 °C Factor CF +1

Received by OCD: 9/18/2023 4:33:51 PM

Released to Imaging: 12/18/2023 3:52:25 PM

Page 43 of 105

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes		Notes
✓	Shipping container present?	
	Chain of custody signed/dated/time when relinquished and received?	
	Sample container present on COC for all samples?	
	Samplers name present on COC?	
	Chain of Custody agrees with sample labels?	
	Sample containers intact?	
X	Any visible leaks inside the sample bottles?	
✓	Samples in proper container/bottle?	
	Sufficient sample volume for indicated test?	
	All samples received within holding time?	
	Samples received within appropriate temp?	5.2
	Analysis requested for all samples submitted?	
	Shipping container/cooler in good condition?	
	Custody seals intact on shipping container/cooler?	

Login Notes:
407 2F060001

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted

Name:

Date/Time:

NC Initiated by:_____ Approved by:_____

Received by OCD: 9/18/2023 4:33:51 PM

Released to Imaging: 12/18/2023 3:52:25 PM

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matthew Green

TRC Solutions- Midland, Texas

10 Desta Dr STE 150E

Midland, TX 79705

Project: Centennial Chimichanga 12 State 501H

Project Number: 00274

Location: Lea County, NM

Lab Order Number: 2I30006

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 10/06/22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-1 @ 12"	2I30006-01	Soil	09/28/22 09:55	09-29-2022 16:06
NW-2 @ 6"	2I30006-02	Soil	09/28/22 10:10	09-29-2022 16:06
EW-1 @ 12"	2I30006-03	Soil	09/28/22 09:35	09-29-2022 16:06
WW-1 @ 12"	2I30006-04	Soil	09/28/22 09:30	09-29-2022 16:06
BH-1 @ 18"	2I30006-05	Soil	09/28/22 09:40	09-29-2022 16:06
BH-2 @ 12"	2I30006-06	Soil	09/28/22 09:50	09-29-2022 16:06
BH-3 @ 6"	2I30006-07	Soil	09/28/22 10:00	09-29-2022 16:06
BH-4 @ 6"	2I30006-08	Soil	09/28/22 10:05	09-29-2022 16:06

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

NW-1 @ 12"

2I30006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:58	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:58	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:58	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:58	EPA 8021B	
Xylene (o)	**0.00133**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*82.4 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:58*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.4**	1.01	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 17:07	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**41.8**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 06:22	TPH 8015M	
>C12-C28	**2670**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 06:22	TPH 8015M	
>C28-C35	**418**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 06:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.6 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 06:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 06:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**3130**	25.3	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 06:22	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

NW-2 @ 6"

2I30006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:13	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:13	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:13	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:13	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**214**	1.03	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 18:02	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:32	TPH 8015M	
>C12-C28	**293**	25.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:32	TPH 8015M	
>C28-C35	**82.2**	25.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.4 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 07:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.1 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 07:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**375**	25.8	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 07:32	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

EW-1 @ 12"

2I30006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:34	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:34	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:34	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:34	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:34*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**79.2**	1.02	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 18:20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:55	TPH 8015M	
>C12-C28	**487**	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:55	TPH 8015M	
>C28-C35	**80.0**	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 07:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.0 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 07:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.7 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 07:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**567**	25.5	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 07:55	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

WW-1 @ 12"

2I30006-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:55	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:55	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:55	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:55	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 22:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.6 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 22:55*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**53.9**	1.02	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 18:38	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:19	TPH 8015M	
>C12-C28	**540**	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:19	TPH 8015M	
>C28-C35	**90.6**	25.5	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 08:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 08:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**631**	25.5	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 08:19	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-1 @ 18''

2I30006-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 23:17	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 23:17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 23:17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 23:17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/03/22 23:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.3 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 23:17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/03/22 23:17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**22.5**	1.01	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 18:56	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:42	TPH 8015M	
>C12-C28	**70.3**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:42	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 08:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 08:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 08:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**70.3**	25.3	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 08:42	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-2 @ 12''

2I30006-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:21	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 00:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 00:21*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**42.9**	1.01	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 19:14	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:05	TPH 8015M	
>C12-C28	**127**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:05	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 09:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 09:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**127**	25.3	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 09:05	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-3 @ 6"

2I30006-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:42	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:42	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:42	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:42	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 00:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 00:42*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*82.1 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 00:42*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**65.3**	1.01	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 19:32	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**131**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:43	TPH 8015M	
>C12-C28	**5770**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:43	TPH 8015M	
>C28-C35	**1130**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 13:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.9 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 13:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**7030**	126	mg/kg dry	5	[CALC]	10/04/22 14:28	10/06/22 13:43	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-4 @ 6"

2I30006-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00119	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 01:04	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 01:04	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 01:04	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 01:04	EPA 8021B	
Xylene (o)	**0.00212**	0.00119	mg/kg dry	1	P2J0309	10/03/22 12:34	10/04/22 01:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 01:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*80-120*		*P2J0309*	*10/03/22 12:34*	*10/04/22 01:04*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**73.1**	1.19	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 19:50	EPA 300.0	
% Moisture	**16.0**	0.1	%	1	P2J0310	10/03/22 13:55	10/03/22 13:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**44.1**	29.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:51	TPH 8015M	
>C12-C28	**707**	29.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:51	TPH 8015M	
>C28-C35	**133**	29.8	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 09:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 09:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 09:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**884**	29.8	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 09:51	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I3008 - * DEFAULT PREP *** **										
Blank (P2I3008-BLK1)				Prepared & Analyzed: 09/30/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0970*		*"*	*0.120*		*80.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*80-120*			
LCS (P2I3008-BS1)				Prepared & Analyzed: 09/30/22						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.226	0.00200	"	0.200		113	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.0*	*80-120*			
LCS Dup (P2I3008-BSD1)				Prepared & Analyzed: 09/30/22						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120	9.89	20	
Toluene	0.101	0.00100	"	0.100		101	80-120	10.6	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	1.22	20	
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120	11.8	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	11.8	20	
Surrogate: 4-Bromofluorobenzene	*0.0960*		*"*	*0.120*		*80.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			
Calibration Blank (P2I3008-CCB1)				Prepared & Analyzed: 09/30/22						
Benzene	0.00		ug/kg							
Toluene	0.300		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.340		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0992*		*"*	*0.120*		*82.7*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I3008 - * DEFAULT PREP *** **										
Calibration Blank (P2I3008-CCB2)				Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0992*		*"*	*0.120*		*82.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			
Calibration Check (P2I3008-CCV1)				Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0977*		*"*	*0.120*		*81.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*75-125*			
Calibration Check (P2I3008-CCV2)				Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0990*		*"*	*0.120*		*82.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*75-125*			
Calibration Check (P2I3008-CCV3)				Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0929*		*"*	*0.120*		*77.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*75-125*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I3008 - * DEFAULT PREP *** **										
Matrix Spike (P2I3008-MS1)	**Source: 2I29014-01**			Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.101	0.00100	mg/kg dry	0.100	ND	101	80-120			
Toluene	0.0938	0.00100	"	0.100	ND	93.8	80-120			
Ethylbenzene	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200	ND	99.2	80-120			
Xylene (o)	0.108	0.00100	"	0.100	ND	108	80-120			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*97.0*	*80-120*			
Matrix Spike Dup (P2I3008-MSD1)	**Source: 2I29014-01**			Prepared: 09/30/22 Analyzed: 10/01/22						
Benzene	0.0953	0.00100	mg/kg dry	0.100	ND	95.3	80-120	6.22	20	
Toluene	0.0866	0.00100	"	0.100	ND	86.6	80-120	8.02	20	
Ethylbenzene	0.0976	0.00100	"	0.100	ND	97.6	80-120	7.93	20	
Xylene (p/m)	0.187	0.00200	"	0.200	ND	93.6	80-120	5.73	20	
Xylene (o)	0.102	0.00100	"	0.100	ND	102	80-120	6.00	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Batch P2J0309 - * DEFAULT PREP *** **										
Blank (P2J0309-BLK1)				Prepared & Analyzed: 10/03/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0938*		*"*	*0.120*		*78.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.2*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0309 - * DEFAULT PREP *** **										
LCS (P2J0309-BS1)				Prepared & Analyzed: 10/03/22						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		109	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0940*		"	*0.120*		*78.3*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*91.2*	*80-120*			
LCS Dup (P2J0309-BSD1)				Prepared & Analyzed: 10/03/22						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120	1.39	20	
Toluene	0.116	0.00100	"	0.100		116	80-120	2.74	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120	0.635	20	
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120	0.193	20	
Xylene (o)	0.115	0.00100	"	0.100		115	80-120	1.21	20	
Surrogate: 4-Bromofluorobenzene	*0.0906*		"	*0.120*		*75.5*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*91.2*	*80-120*			
Calibration Blank (P2J0309-CCB1)				Prepared & Analyzed: 10/03/22						
Benzene	0.00		ug/kg							
Toluene	0.430		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.320		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0893*		"	*0.120*		*74.4*	*80-120*			*S-GC*
Calibration Blank (P2J0309-CCB2)				Prepared & Analyzed: 10/03/22						
Benzene	0.00		ug/kg							
Toluene	0.390		"							
Ethylbenzene	0.150		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0895*		"	*0.120*		*74.6*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.1*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0309 - * DEFAULT PREP *** **										
Calibration Check (P2J0309-CCV1)				Prepared & Analyzed: 10/03/22						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0968*		"	*0.120*		*80.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.9*	*75-125*			
Calibration Check (P2J0309-CCV2)				Prepared & Analyzed: 10/03/22						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0928*		"	*0.120*		*77.3*	*75-125*			
Calibration Check (P2J0309-CCV3)				Prepared: 10/03/22 Analyzed: 10/04/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0898*		"	*0.120*		*74.8*	*75-125*			*S-GC*
Matrix Spike (P2J0309-MS1)		**Source: 2J03008-01**		Prepared: 10/03/22 Analyzed: 10/04/22						
Benzene	0.0548	0.00101	mg/kg dry	0.101	0.00153	52.8	80-120			QM-05
Toluene	0.0647	0.00101	"	0.101	0.0239	40.4	80-120			QM-05
Ethylbenzene	0.0537	0.00101	"	0.101	0.0226	30.8	80-120			QM-05
Xylene (p/m)	0.122	0.00202	"	0.202	0.0721	24.6	80-120			QM-05
Xylene (o)	0.0597	0.00101	"	0.101	0.0320	27.4	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.121*		*96.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.121*		*94.6*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0309 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2J0309-MSD1)	**Source: 2J03008-01**			Prepared: 10/03/22 Analyzed: 10/04/22						
Benzene	0.0702	0.00101	mg/kg dry	0.101	0.00153	68.0	80-120	25.2	20	QM-05
Toluene	0.0790	0.00101	"	0.101	0.0239	54.5	80-120	29.8	20	QM-05
Ethylbenzene	0.0691	0.00101	"	0.101	0.0226	46.1	80-120	39.8	20	QM-05
Xylene (p/m)	0.139	0.00202	"	0.202	0.0721	33.3	80-120	30.3	20	QM-05
Xylene (o)	0.0755	0.00101	"	0.101	0.0320	43.1	80-120	44.6	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.121*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.121*		*99.0*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0305 - * DEFAULT PREP *** **										
Blank (P2J0305-BLK1)				Prepared & Analyzed: 10/03/22						
Chloride	ND	1.00	mg/kg							
LCS (P2J0305-BS1)				Prepared & Analyzed: 10/03/22						
Chloride	18.3		mg/kg	20.0		91.3	90-110			
LCS Dup (P2J0305-BSD1)				Prepared & Analyzed: 10/03/22						
Chloride	18.3		mg/kg	20.0		91.3	90-110	0.0767	10	
Calibration Blank (P2J0305-CCB1)				Prepared & Analyzed: 10/03/22						
Chloride	0.00600		mg/kg							
Calibration Blank (P2J0305-CCB2)				Prepared & Analyzed: 10/03/22						
Chloride	0.00800		mg/kg							
Calibration Check (P2J0305-CCV1)				Prepared & Analyzed: 10/03/22						
Chloride	18.1		mg/kg	20.0		90.4	90-110			
Calibration Check (P2J0305-CCV2)				Prepared & Analyzed: 10/03/22						
Chloride	18.3		mg/kg	20.0		91.7	90-110			
Calibration Check (P2J0305-CCV3)				Prepared & Analyzed: 10/03/22						
Chloride	18.6		mg/kg	20.0		93.0	90-110			
Matrix Spike (P2J0305-MS1)		**Source: 2J03002-01**		Prepared & Analyzed: 10/03/22						
Chloride	234	1.05	mg/kg dry	263	10.3	85.0	80-120			
Matrix Spike (P2J0305-MS2)		**Source: 2I30006-01**		Prepared & Analyzed: 10/03/22						
Chloride	272	1.01	mg/kg dry	253	43.4	90.4	80-120			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0305 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2J0305-MSD1)	**Source: 2J03002-01**			Prepared & Analyzed: 10/03/22						
Chloride	230	1.05	mg/kg dry	263	10.3	83.4	80-120	1.80	20	
Matrix Spike Dup (P2J0305-MSD2)	**Source: 2I30006-01**			Prepared & Analyzed: 10/03/22						
Chloride	268	1.01	mg/kg dry	253	43.4	89.0	80-120	1.29	20	
Batch P2J0310 - * DEFAULT PREP *** **										
Blank (P2J0310-BLK1)				Prepared & Analyzed: 10/03/22						
% Moisture	ND	0.1	%							
Blank (P2J0310-BLK2)				Prepared & Analyzed: 10/03/22						
% Moisture	ND	0.1	%							
Blank (P2J0310-BLK3)				Prepared & Analyzed: 10/03/22						
% Moisture	ND	0.1	%							
Duplicate (P2J0310-DUP1)	**Source: 2I29013-03**			Prepared & Analyzed: 10/03/22						
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P2J0310-DUP2)	**Source: 2I29013-13**			Prepared & Analyzed: 10/03/22						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P2J0310-DUP3)	**Source: 2I30003-01**			Prepared & Analyzed: 10/03/22						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P2J0310-DUP4)	**Source: 2I30006-02**			Prepared & Analyzed: 10/03/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0310 - * DEFAULT PREP *** **										
Duplicate (P2J0310-DUP5)		**Source: 2I30018-09**		Prepared & Analyzed: 10/03/22						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2J0310-DUP6)		**Source: 2I30018-19**		Prepared & Analyzed: 10/03/22						
% Moisture	6.0	0.1	%		6.0			0.00	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0412 - TX 1005										
Blank (P2J0412-BLK1)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*52.6*		*"*	*50.0*		*105*	*70-130*			
LCS (P2J0412-BS1)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	1000	25.0	mg/kg	1000		100	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*60.8*		*"*	*50.0*		*122*	*70-130*			
LCS Dup (P2J0412-BSD1)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	1020	25.0	mg/kg	1000		102	75-125	2.32	20	
>C12-C28	1060	25.0	"	1000		106	75-125	2.27	20	
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*60.8*		*"*	*50.0*		*122*	*70-130*			
Calibration Check (P2J0412-CCV1)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	504	25.0	mg/kg	500		101	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	*124*		*"*	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		*"*	*50.0*		*112*	*70-130*			
Calibration Check (P2J0412-CCV2)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	486	25.0	mg/kg	500		97.1	85-115			
>C12-C28	509	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*58.0*		*"*	*50.0*		*116*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J0412 - TX 1005										
Calibration Check (P2J0412-CCV3)				Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	494	25.0	mg/kg	500		98.8	85-115			
>C12-C28	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*123*		*"*	*100*		*123*	*70-130*			
Surrogate: o-Terphenyl	*58.5*		*"*	*50.0*		*117*	*70-130*			
Duplicate (P2J0412-DUP1)		**Source: 2I29013-08**		Prepared: 10/04/22 Analyzed: 10/06/22						
C6-C12	2350	521	mg/kg dry		2270			3.35	20	
>C12-C28	9190	521	"		9050			1.46	20	
Surrogate: 1-Chlorooctane	*110*		*"*	*104*		*105*	*70-130*			
Surrogate: o-Terphenyl	*68.3*		*"*	*52.1*		*131*	*70-130*			*S-GC*

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 10/6/2022

Brent Barron, Laboratory Director/Technical Director

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

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If you have received this material in error, please notify us immediately at 432-686-7235.

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

LiMH

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: TRC Environmental Corporation
Company Address: 10 Desta Drive Suite 130E
City/State/Zip: Midland,TX 79705
Telephone No: (432)520-7720 Fax No:
Sampler Signature:

Project Name: Chimichanga 12 State 501H
Project #: `00274
Project Loc: Lea County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES
e-mail: mgreen@trccompanies.com
nikki.mishler@cdevinc.com

(lab use only)
ORDER #: 2130006

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 8015B	TOTAL: TPH: 8015M	TPH: TX 1005 Ext	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	NW-1 @ 12"			9/28/2022	9:55		2	x								S	X									X			X				x
2	NW-2 @ 6"			9/28/2022	10:10		2	x								S	X									X			X				x
3	EW-1 @ 12"			9/28/2022	9:35		2	x								S	X									X			X				x
4	WW-1 @ 12"			9/28/2022	9:30		2	x								S	X									X			X				x
5	BH-1 @ 18"			9/28/2022	9:40		2	x								S	X									X			X				x
6	BH-2 @ 12"			9/28/2022	9:50		2	x								S	X									X			X				x
7	BH-3 @ 6"			9/28/2022	10:00		2	x								S	X									X			X				x
8	BH-4 @ 6"			9/28/2022	10:05		2	x								S	X									X			X				x

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Leah Mc	9/29/22	16:06			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Tessa Bledsoe	9/29/22	16:06

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 12.6 [13.6] ±1 °C CF +1
Adjusted: 13.6 5.1 °C Factor LI

Received by OCD: 9/18/2023 3:33:51 PM

Released to Imaging: 12/18/2023 3:52:25 PM

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matthew Green

TRC Solutions- Midland, Texas

10 Desta Dr STE 150E

Midland, TX 79705

Project: Centennial Chimichanga 12 State 501H

Project Number: 00274

Location: Lea County, NM

Lab Order Number: 2J21004

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 10/26/22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-4A @ 12"	2J21004-01	Soil	10/20/22 10:35	10-21-2022 12:13
EW-1A @ 12"	2J21004-02	Soil	10/20/22 10:20	10-21-2022 12:13
WW-1A @ 12"	2J21004-03	Soil	10/20/22 10:15	10-21-2022 12:13
NW-1A @ 12"	2J21004-04	Soil	10/20/22 10:30	10-21-2022 12:13
BH-5 @ 6"	2J21004-05	Soil	10/20/22 10:00	10-21-2022 12:13
NW-2A @ 12"	2J21004-06	Soil	10/20/22 10:25	10-21-2022 12:13
BH-3A @ 12"	2J21004-07	Soil	10/20/22 10:10	10-21-2022 12:13
BH-2A @ 12"	2J21004-08	Soil	10/20/22 10:25	10-21-2022 12:13

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-4A @ 12''

2J21004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 16:39	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 16:39	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 16:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.5 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 16:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 16:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 16:39	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

EW-1A @ 12"

2J21004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**12.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:02	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:02	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.4 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 17:02	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

WW-1A @ 12''

2J21004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**9.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:24	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:24	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 17:24	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

NW-1A @ 12"

2J21004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:47	TPH 8015M	
>C12-C28	**56.4**	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:47	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 17:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 17:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**56.4**	27.8	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 17:47	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-5 @ 6"

2J21004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**11.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:09	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:09	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.0 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 18:09	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

NW-2A @ 12"

2J21004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**11.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:32	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:32	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.3 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.7 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 18:32	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-3A @ 12"

2J21004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P2J2401	10/24/22 09:14	10/24/22 09:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:54	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:54	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2J2406	10/24/22 14:40	10/25/22 18:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.3 %*	*70-130*		*P2J2406*	*10/24/22 14:40*	*10/25/22 18:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	10/24/22 14:40	10/25/22 18:54	calc	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BH-2A @ 12"

2J21004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P2J2604	10/26/22 10:15	10/26/22 10:22	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2J2506	10/25/22 14:00	10/25/22 21:30	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2J2506	10/25/22 14:00	10/25/22 21:30	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2J2506	10/25/22 14:00	10/25/22 21:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.5 %*	*70-130*		*P2J2506*	*10/25/22 14:00*	*10/25/22 21:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P2J2506*	*10/25/22 14:00*	*10/25/22 21:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	10/25/22 14:00	10/25/22 21:30	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J2401 - * DEFAULT PREP *** **										
Blank (P2J2401-BLK1)				Prepared & Analyzed: 10/24/22						
% Moisture	ND	0.1	%							
Duplicate (P2J2401-DUP1)		**Source: 2J21004-02**		Prepared & Analyzed: 10/24/22						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P2J2401-DUP2)		**Source: 2J21005-05**		Prepared & Analyzed: 10/24/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P2J2401-DUP3)		**Source: 2J21007-01**		Prepared & Analyzed: 10/24/22						
% Moisture	13.0	0.1	%		17.0			26.7	20	R3
Batch P2J2604 - * DEFAULT PREP *** **										
Blank (P2J2604-BLK1)				Prepared & Analyzed: 10/26/22						
% Moisture	ND	0.1	%							
Blank (P2J2604-BLK2)				Prepared & Analyzed: 10/26/22						
% Moisture	ND	0.1	%							
Blank (P2J2604-BLK3)				Prepared & Analyzed: 10/26/22						
% Moisture	ND	0.1	%							
Blank (P2J2604-BLK4)				Prepared & Analyzed: 10/26/22						
% Moisture	ND	0.1	%							
Blank (P2J2604-BLK5)				Prepared & Analyzed: 10/26/22						
% Moisture	ND	0.1	%							

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J2604 - * DEFAULT PREP *** **										
Duplicate (P2J2604-DUP1)		**Source: 2J21010-01**		Prepared & Analyzed: 10/26/22						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2J2604-DUP2)		**Source: 2J21011-05**		Prepared & Analyzed: 10/26/22						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P2J2604-DUP3)		**Source: 2J24006-15**		Prepared & Analyzed: 10/26/22						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P2J2604-DUP4)		**Source: 2J24006-25**		Prepared & Analyzed: 10/26/22						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P2J2604-DUP5)		**Source: 2J24008-10**		Prepared & Analyzed: 10/26/22						
% Moisture	24.0	0.1	%		25.0			4.08	20	
Duplicate (P2J2604-DUP6)		**Source: 2J24010-08**		Prepared & Analyzed: 10/26/22						
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P2J2604-DUP7)		**Source: 2J24012-02**		Prepared & Analyzed: 10/26/22						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P2J2604-DUP8)		**Source: 2J25004-04**		Prepared & Analyzed: 10/26/22						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P2J2604-DUP9)		**Source: 2J25012-01**		Prepared & Analyzed: 10/26/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J2406 - TX 1005										
Blank (P2J2406-BLK1)				Prepared: 10/24/22 Analyzed: 10/25/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*98.6*		*"*	*100*		*98.6*	*70-130*			
Surrogate: o-Terphenyl	*48.9*		*"*	*50.0*		*97.9*	*70-130*			
LCS (P2J2406-BS1)				Prepared & Analyzed: 10/24/22						
C6-C12	981	25.0	mg/kg	1000		98.1	75-125			
>C12-C28	931	25.0	"	1000		93.1	75-125			
Surrogate: 1-Chlorooctane	*101*		*"*	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*49.0*		*"*	*50.0*		*97.9*	*70-130*			
LCS Dup (P2J2406-BSD1)				Prepared: 10/24/22 Analyzed: 10/25/22						
C6-C12	990	25.0	mg/kg	1000		99.0	75-125	0.868	20	
>C12-C28	934	25.0	"	1000		93.4	75-125	0.338	20	
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*56.7*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (P2J2406-CCV1)				Prepared & Analyzed: 10/24/22						
C6-C12	492	25.0	mg/kg	500		98.5	85-115			
>C12-C28	473	25.0	"	500		94.6	85-115			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*47.6*		*"*	*50.0*		*95.3*	*70-130*			
Calibration Check (P2J2406-CCV2)				Prepared: 10/24/22 Analyzed: 10/25/22						
C6-C12	492	25.0	mg/kg	500		98.3	85-115			
>C12-C28	510	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*54.1*		*"*	*50.0*		*108*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J2406 - TX 1005										
Matrix Spike (P2J2406-MS1)	**Source: 2J21006-05**			Prepared: 10/24/22 Analyzed: 10/26/22						
C6-C12	1090	32.5	mg/kg dry	1300	18.8	82.7	75-125			
>C12-C28	1120	32.5	"	1300	14.6	85.3	75-125			
Surrogate: 1-Chlorooctane	*162*		*"*	*130*		*124*	*70-130*			
Surrogate: o-Terphenyl	*65.2*		*"*	*64.9*		*100*	*70-130*			
Matrix Spike Dup (P2J2406-MSD1)	**Source: 2J21006-05**			Prepared: 10/24/22 Analyzed: 10/26/22						
C6-C12	1070	32.5	mg/kg dry	1300	18.8	80.7	75-125	2.41	20	
>C12-C28	1100	32.5	"	1300	14.6	83.7	75-125	1.88	20	
Surrogate: 1-Chlorooctane	*159*		*"*	*130*		*122*	*70-130*			
Surrogate: o-Terphenyl	*66.4*		*"*	*64.9*		*102*	*70-130*			
Batch P2J2506 - TX 1005										
Blank (P2J2506-BLK1)				Prepared & Analyzed: 10/25/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*51.2*		*"*	*50.0*		*102*	*70-130*			
LCS (P2J2506-BS1)				Prepared & Analyzed: 10/25/22						
C6-C12	973	25.0	mg/kg	1000		97.3	75-125			
>C12-C28	909	25.0	"	1000		90.9	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*53.2*		*"*	*50.0*		*106*	*70-130*			
LCS Dup (P2J2506-BSD1)				Prepared & Analyzed: 10/25/22						
C6-C12	964	25.0	mg/kg	1000		96.4	75-125	0.909	20	
>C12-C28	897	25.0	"	1000		89.7	75-125	1.35	20	
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*56.4*		*"*	*50.0*		*113*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2J2506 - TX 1005										
Calibration Check (P2J2506-CCV1)				Prepared & Analyzed: 10/25/22						
C6-C12	529	25.0	mg/kg	500		106	85-115			
>C12-C28	494	25.0	"	500		98.8	85-115			
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		*"*	*50.0*		*107*	*70-130*			
Calibration Check (P2J2506-CCV2)				Prepared: 10/25/22 Analyzed: 10/26/22						
C6-C12	496	25.0	mg/kg	500		99.3	85-115			
>C12-C28	486	25.0	"	500		97.1	85-115			
Surrogate: 1-Chlorooctane	*126*		*"*	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
Calibration Check (P2J2506-CCV3)				Prepared: 10/25/22 Analyzed: 10/26/22						
C6-C12	484	25.0	mg/kg	500		96.9	85-115			
>C12-C28	469	25.0	"	500		93.8	85-115			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*50.0*		*100*	*70-130*			
Duplicate (P2J2506-DUP1)	**Source: 2J24010-03**			Prepared: 10/25/22 Analyzed: 10/26/22						
C6-C12	5990	581	mg/kg dry		6610			9.78	20	
>C12-C28	23900	581	"		24700			3.48	20	
Surrogate: 1-Chlorooctane	*129*		*"*	*116*		*111*	*70-130*			
Surrogate: o-Terphenyl	*64.2*		*"*	*58.1*		*110*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Notes and Definitions

ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 10/26/2022

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive Suite 130E

City/State/Zip: Midland,TX 79705

Telephone No: (432)520-7720 Fax No:

Sampler Signature:

e-mail: mgreen@trccompanies.com
nikki.mishler@cdevinc.com

Project Name: Chimichanga 12 State 501H

Project #: `00274

Project Loc: Lea County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 2J21004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M	TPH: 8015B TX 1005 Ext TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	BH-4A @ 12"			10/20/2022	10:35		1	x								S	X													x
2	EW-1A @ 12"			10/20/2022	10:20		1	x								S	X													x
3	WW-1A @ 12"			10/20/2022	10:15		1	x								S	X													x
4	NW-1A @ 12"			10/20/2022	10:30		1	x								S	X													x
5	BH-5 @ 6"			10/20/2022	10:00		1	x								S	X													x
6	NW-2A @ 12"			10/20/2022	10:25		1	x								S	X													x
7	BH-3A @ 12"			10/20/2022	10:10		1	x								S	X													x
	BH-2A @ 12"			10/20/2022	10:25		1	x								S	X													x

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	10/21/22	12:13			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				10/21/22	12:13

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.9 °C CF -1
Adjusted: 5.9 °C Factor 1.1

Received by OCD: 9/18/2023 4:33:51 PM

Released to Imaging: 12/18/2023 3:52:25 PM

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matthew Green

TRC Solutions- Midland, Texas

10 Desta Dr STE 150E

Midland, TX 79705

Project: Centennial Chimichanga 12 State 501H

Project Number: 00274

Location: Lea County, NM

Lab Order Number: 2L05005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/14/22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp NW-1	2L05005-01	Soil	12/02/22 11:00	12-05-2022 09:37
Comp BH-3	2L05005-02	Soil	12/02/22 11:07	12-05-2022 09:37

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Comp NW-1

2L05005-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2L0604	12/06/22 10:55	12/07/22 12:29	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2L0604	12/06/22 10:55	12/07/22 12:29	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2L0604	12/06/22 10:55	12/07/22 12:29	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2L0604	12/06/22 10:55	12/07/22 12:29	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2L0604	12/06/22 10:55	12/07/22 12:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P2L0604*	*12/06/22 10:55*	*12/07/22 12:29*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*83.3 %*	*80-120*		*P2L0604*	*12/06/22 10:55*	*12/07/22 12:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:27	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:27	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P2L0504*	*12/05/22 18:30*	*12/06/22 03:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*P2L0504*	*12/05/22 18:30*	*12/06/22 03:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/05/22 18:30	12/06/22 03:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.4**	1.11	mg/kg dry	1	P2L0702	12/07/22 08:20	12/07/22 11:47	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2L0707	12/07/22 13:14	12/07/22 13:37	ASTM D2216	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Comp BH-3

2L05005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00115	mg/kg dry	1	P2L0705	12/07/22 11:44	12/07/22 16:39	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P2L0705	12/07/22 11:44	12/07/22 16:39	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P2L0705	12/07/22 11:44	12/07/22 16:39	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P2L0705	12/07/22 11:44	12/07/22 16:39	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P2L0705	12/07/22 11:44	12/07/22 16:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P2L0705*	*12/07/22 11:44*	*12/07/22 16:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.1 %*	*80-120*		*P2L0705*	*12/07/22 11:44*	*12/07/22 16:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:49	TPH 8015M	
>C12-C28	**73.9**	28.7	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:49	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P2L0504	12/05/22 18:30	12/06/22 03:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P2L0504*	*12/05/22 18:30*	*12/06/22 03:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P2L0504*	*12/05/22 18:30*	*12/06/22 03:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**73.9**	28.7	mg/kg dry	1	[CALC]	12/05/22 18:30	12/06/22 03:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.40**	1.15	mg/kg dry	1	P2L0702	12/07/22 08:20	12/07/22 12:06	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P2L0707	12/07/22 13:14	12/07/22 13:37	ASTM D2216	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0604 - * DEFAULT PREP *** **										
Blank (P2L0604-BLK1)				Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.102*		"	*0.120*		*84.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
LCS (P2L0604-BS1)				Prepared & Analyzed: 12/06/22						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.2	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.102*		"	*0.120*		*85.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.120*		*111*	*80-120*			
LCS Dup (P2L0604-BSD1)				Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120	1.73	20	
Toluene	0.112	0.00100	"	0.100		112	80-120	0.811	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	2.55	20	
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120	0.795	20	
Xylene (o)	0.112	0.00100	"	0.100		112	80-120	2.49	20	
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.120*		*116*	*80-120*			
Calibration Blank (P2L0604-CCB1)				Prepared & Analyzed: 12/06/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.103*		"	*0.120*		*85.7*	*80-120*			

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10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0604 - * DEFAULT PREP *** **										
Calibration Blank (P2L0604-CCB2)				Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.138*		*"*	*0.120*		*115*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*84.3*	*80-120*			
Calibration Check (P2L0604-CCV1)				Prepared & Analyzed: 12/06/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		98.9	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	*0.103*		*"*	*0.120*		*85.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.131*		*"*	*0.120*		*109*	*75-125*			
Calibration Check (P2L0604-CCV2)				Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*83.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.1*	*75-125*			
Calibration Check (P2L0604-CCV3)				Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 4-Bromofluorobenzene	*0.139*		*"*	*0.120*		*116*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0975*		*"*	*0.120*		*81.2*	*75-125*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0604 - * DEFAULT PREP *** **										
Matrix Spike (P2L0604-MS1)	**Source: 2L05001-14**			Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.101	0.00109	mg/kg dry	0.109	ND	93.0	80-120			
Toluene	0.109	0.00109	"	0.109	ND	101	80-120			
Ethylbenzene	0.126	0.00109	"	0.109	ND	115	80-120			
Xylene (p/m)	0.197	0.00217	"	0.217	ND	90.4	80-120			
Xylene (o)	0.108	0.00109	"	0.109	ND	99.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.130*		*88.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.174*		*"*	*0.130*		*133*	*80-120*			*S-GC*
Matrix Spike Dup (P2L0604-MSD1)	**Source: 2L05001-14**			Prepared: 12/06/22 Analyzed: 12/07/22						
Benzene	0.101	0.00109	mg/kg dry	0.109	ND	92.5	80-120	0.507	20	
Toluene	0.105	0.00109	"	0.109	ND	96.7	80-120	3.97	20	
Ethylbenzene	0.119	0.00109	"	0.109	ND	110	80-120	5.09	20	
Xylene (p/m)	0.185	0.00217	"	0.217	ND	85.1	80-120	6.08	20	
Xylene (o)	0.103	0.00109	"	0.109	ND	94.6	80-120	4.92	20	
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.130*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.166*		*"*	*0.130*		*127*	*80-120*			*S-GC*
Batch P2L0705 - * DEFAULT PREP *** **										
Blank (P2L0705-BLK1)				Prepared & Analyzed: 12/07/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.140*		*"*	*0.120*		*116*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0991*		*"*	*0.120*		*82.6*	*80-120*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0705 - * DEFAULT PREP *** **										
LCS (P2L0705-BS1)				Prepared & Analyzed: 12/07/22						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	*0.103*		*"*	*0.120*		*85.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.145*		*"*	*0.120*		*121*	*80-120*			*S-GC*
LCS Dup (P2L0705-BSD1)				Prepared & Analyzed: 12/07/22						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120	1.44	20	
Toluene	0.119	0.00100	"	0.100		119	80-120	0.708	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	0.851	20	
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120	1.66	20	
Xylene (o)	0.120	0.00100	"	0.100		120	80-120	0.184	20	
Surrogate: 4-Bromofluorobenzene	*0.144*		*"*	*0.120*		*120*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.102*		*"*	*0.120*		*84.6*	*80-120*			
Calibration Blank (P2L0705-CCB1)				Prepared & Analyzed: 12/07/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.0979*		*"*	*0.120*		*81.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.135*		*"*	*0.120*		*113*	*80-120*			
Calibration Blank (P2L0705-CCB2)				Prepared: 12/07/22 Analyzed: 12/08/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.104*		*"*	*0.120*		*86.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*112*	*80-120*			

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10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0705 - * DEFAULT PREP *** **										
Calibration Blank (P2L0705-CCB3)				Prepared: 12/07/22 Analyzed: 12/08/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.120*		*118*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0976*		*"*	*0.120*		*81.3*	*80-120*			
Calibration Check (P2L0705-CCV1)				Prepared & Analyzed: 12/07/22						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	*0.147*		*"*	*0.120*		*122*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.103*		*"*	*0.120*		*85.5*	*75-125*			
Calibration Check (P2L0705-CCV2)				Prepared & Analyzed: 12/07/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*84.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*75-125*			
Calibration Check (P2L0705-CCV3)				Prepared: 12/07/22 Analyzed: 12/08/22						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	*0.101*		*"*	*0.120*		*83.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.146*		*"*	*0.120*		*121*	*75-125*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0705 - * DEFAULT PREP *** **										
Matrix Spike (P2L0705-MS1)	**Source: 2L05013-01**			Prepared: 12/07/22 Analyzed: 12/08/22						
Benzene	0.0884	0.00114	mg/kg dry	0.114	ND	77.7	80-120			QM-05
Toluene	0.0879	0.00114	"	0.114	0.000625	76.8	80-120			QM-05
Ethylbenzene	0.0863	0.00114	"	0.114	ND	75.9	80-120			QM-05
Xylene (p/m)	0.105	0.00227	"	0.227	ND	46.1	80-120			QM-05
Xylene (o)	0.0739	0.00114	"	0.114	ND	65.0	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.180*		*"*	*0.136*		*132*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.136*		*88.7*	*80-120*			
Matrix Spike Dup (P2L0705-MSD1)	**Source: 2L05013-01**			Prepared: 12/07/22 Analyzed: 12/08/22						
Benzene	0.0979	0.00114	mg/kg dry	0.114	ND	86.1	80-120	10.2	20	
Toluene	0.0940	0.00114	"	0.114	0.000625	82.2	80-120	6.77	20	
Ethylbenzene	0.0918	0.00114	"	0.114	ND	80.8	80-120	6.21	20	
Xylene (p/m)	0.0968	0.00227	"	0.227	ND	42.6	80-120	7.89	20	QM-05
Xylene (o)	0.0787	0.00114	"	0.114	ND	69.3	80-120	6.39	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.136*		*89.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.181*		*"*	*0.136*		*132*	*80-120*			*S-GC*

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0504 - TX 1005										
Blank (P2L0504-BLK1)				Prepared: 12/05/22 Analyzed: 12/06/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*58.3*		*"*	*50.0*		*117*	*70-130*			
LCS (P2L0504-BS1)				Prepared: 12/05/22 Analyzed: 12/06/22						
C6-C12	894	25.0	mg/kg	1000		89.4	75-125			
>C12-C28	892	25.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*63.6*		*"*	*50.0*		*127*	*70-130*			
LCS Dup (P2L0504-BSD1)				Prepared: 12/05/22 Analyzed: 12/06/22						
C6-C12	891	25.0	mg/kg	1000		89.1	75-125	0.321	20	
>C12-C28	894	25.0	"	1000		89.4	75-125	0.207	20	
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*62.2*		*"*	*50.0*		*124*	*70-130*			
Calibration Check (P2L0504-CCV1)				Prepared & Analyzed: 12/05/22						
C6-C12	545	25.0	mg/kg	500		109	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*60.7*		*"*	*50.0*		*121*	*70-130*			
Calibration Check (P2L0504-CCV2)				Prepared: 12/05/22 Analyzed: 12/06/22						
C6-C12	539	25.0	mg/kg	500		108	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0504 - TX 1005										
Duplicate (P2L0504-DUP1)	**Source: 2L05009-02**		Prepared: 12/05/22 Analyzed: 12/06/22							
C6-C12	27.4	26.6	mg/kg dry		26.1			4.80	20	
>C12-C28	83.9	26.6	"		78.3			6.80	20	
Surrogate: 1-Chlorooctane	*115*		*"*	*106*		*108*	*70-130*			
Surrogate: o-Terphenyl	*63.5*		*"*	*53.2*		*119*	*70-130*			

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0702 - * DEFAULT PREP *** **										
Blank (P2L0702-BLK1)				Prepared & Analyzed: 12/07/22						
Chloride	ND	1.00	mg/kg							
LCS (P2L0702-BS1)				Prepared & Analyzed: 12/07/22						
Chloride	20.2		mg/kg	20.0		101	90-110			
LCS Dup (P2L0702-BSD1)				Prepared & Analyzed: 12/07/22						
Chloride	20.2		mg/kg	20.0		101	90-110	0.0297	10	
Calibration Blank (P2L0702-CCB1)				Prepared & Analyzed: 12/07/22						
Chloride	0.0680		mg/kg							
Calibration Blank (P2L0702-CCB2)				Prepared & Analyzed: 12/07/22						
Chloride	0.0710		mg/kg							
Calibration Check (P2L0702-CCV1)				Prepared & Analyzed: 12/07/22						
Chloride	21.8		mg/kg	20.0		109	90-110			
Calibration Check (P2L0702-CCV2)				Prepared & Analyzed: 12/07/22						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P2L0702-CCV3)				Prepared & Analyzed: 12/07/22						
Chloride	20.4		mg/kg	20.0		102	90-110			
Matrix Spike (P2L0702-MS1)		**Source: 2L05002-12**		Prepared & Analyzed: 12/07/22						
Chloride	3010	27.5	mg/kg dry	549	2480	97.4	80-120			
Matrix Spike (P2L0702-MS2)		**Source: 2L02016-24**		Prepared & Analyzed: 12/07/22						
Chloride	8790	28.4	mg/kg dry	1420	8240	38.6	80-120			QM-05

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0702 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2L0702-MSD1)	**Source: 2L05002-12**			Prepared & Analyzed: 12/07/22						
Chloride	3040	27.5	mg/kg dry	549	2480	102	80-120	0.881	20	
Matrix Spike Dup (P2L0702-MSD2)	**Source: 2L02016-24**			Prepared & Analyzed: 12/07/22						
Chloride	8700	28.4	mg/kg dry	1420	8240	32.1	80-120	1.06	20	QM-05
Batch P2L0707 - * DEFAULT PREP *** **										
Blank (P2L0707-BLK1)				Prepared & Analyzed: 12/07/22						
% Moisture	ND	0.1	%							
Blank (P2L0707-BLK2)				Prepared & Analyzed: 12/07/22						
% Moisture	ND	0.1	%							
Duplicate (P2L0707-DUP1)	**Source: 2L02013-04**			Prepared & Analyzed: 12/07/22						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P2L0707-DUP2)	**Source: 2L02014-07**			Prepared & Analyzed: 12/07/22						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P2L0707-DUP3)	**Source: 2L02016-13**			Prepared & Analyzed: 12/07/22						
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P2L0707-DUP4)	**Source: 2L02016-23**			Prepared & Analyzed: 12/07/22						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P2L0707-DUP5)	**Source: 2L02016-38**			Prepared & Analyzed: 12/07/22						
% Moisture	8.0	0.1	%		8.0			0.00	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0707 - * DEFAULT PREP *** **										
Duplicate (P2L0707-DUP6)		**Source: 2L02016-48**		Prepared & Analyzed: 12/07/22						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P2L0707-DUP7)		**Source: 2L02016-63**		Prepared & Analyzed: 12/07/22						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P2L0707-DUP8)		**Source: 2L05002-10**		Prepared & Analyzed: 12/07/22						
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P2L0707-DUP9)		**Source: 2L05011-02**		Prepared & Analyzed: 12/07/22						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P2L0707-DUPA)		**Source: 2L05011-04**		Prepared & Analyzed: 12/07/22						
% Moisture	9.0	0.1	%		8.0			11.8	20	

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 12/14/2022

Brent Barron, Laboratory Director/Technical Director

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TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: TRC Environmental Corporation
Company Address: 10 Desta Drive Suite 130E
City/State/Zip: Midland,TX 79705
Telephone No: (432)520-7720
Fax No:
Sampler Signature: Matthew Green
e-mail: mgreen@trccompanies.com
nikki.misnier@caevinc.com

Project Name: Chimichanga 12 State 501H
Project #: `00274
Project Loc: Lea County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 2205005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 Ext TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	COMP NW-1			12/2/2022	11:00		1	x								S	X								X			X				x
2	COMP BH-3			12/2/2022	11:07		1	x								S	X								X			X				x

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Matthew Green	12-5-22				
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Mr Haddock	12/5/22	9:37

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: -2.5 °C
Adjusted: -1.5 °C Factor +1.4

Received by OCD: 9/18/2023 4:33:51 PM

Released to Imaging: 12/18/2023 3:52:25 PM

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	nAPP2209453022
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Nikki Mishler	Contact Telephone: 432-315-0134
Contact email: Nikki.Mishler@cdevinc.com	Incident # nAPP2209453022
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.41010 Longitude -103.41863
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chimichanga 12 State Com CTB #2 (501H – 503H)	Site Type: Production Facility
Date Release Discovered: 4/4/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	12	22S	034E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 0.75	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
The heater treater PRV opened due to high pressure on the vessel. With the pressure loss, the separator was flooded, and fluids were sent to the flare. The released crude oil ignited but was immediately self-extinguished. Based on an initial visual inspection of the impacted area, it appears most of the released fluid was consumed by the fire. Based on the square footage of the impacted soil, which was mainly overspray, (4000 sq. ft.) of surface soil, and an estimated depth of impact of approximately 1" of potential soil absorption, accounting for porosity and saturation % of the soils (caliche and sand), an estimated 0.75 bbls of crude oil was released.

Received by OCD: 9/18/2023 4:33:51 PM
Released to Imaging: 12/18/2023 3:52:25 PM

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The released fluids resulted in a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, submitted via the OCD Permitting NOR Application as a Major release by Nikki Mishler on 04/04/2022.	

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: Nikki Mishler Title: Sr. Environmental Representative

Signature: Nikki Mishler Date: 4/7/22

email: Nikki.Mishler @cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

Page 104 of 105
Received by OCD: 9/18/2023 4:33:51 PM
Released to Imaging: 12/18/2023 3:52:25 PM

District I
1625 N. French Dr., Hobbs, NM 88240
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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 266578

CONDITIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 266578
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/18/2023