State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214356019
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?	47 (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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214356019
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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: 12/29/22

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

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214356019
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Facility ID	
Application ID	

Remediation Plan

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

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature: Nikki Mishler Date: 12/29/22

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

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

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

Signature: Jennifer Nobui Date: 01/25/2023

December 29, 2022

Nikki Mishler
Permian Resources Corporation (Formerly Centennial)
500 W. Illinois Ave. Suite 500
Midland, TX 79701
Nikki.Mishler@cdevinc.com

Re: Site Characterization, Delineation, and Proposed Remediation Workplan
Hagberry 9 Battery 1 Release (nAPP2214356019)
GPS: 32.41242° -103.37969°
Unit Letter "D", Section 9, Township 22 South, Range 35 East
Lea County, New Mexico

Dear Ms. Mishler,

TRC Environmental Corporation (TRC), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Site Characterization, Delineation, and Proposed Remediation Workplan (Workplan) for the Hagberry 9 Battery 1 (Release Site). The purpose of this Workplan is to propose remediation activities designed to advance the Release Site toward a New Mexico Oil and Conservation District (NMOCD) approved Site Closure Status. The legal description of the Release Site is Unit Letter "D", Section 9, Township 22 South, Range 35 East, in Lea County, New Mexico. The GPS coordinates for the site are GPS: 32.41242° -103.37969°. A Site Location Map and Site Details Map are provided as Figure 1 and Figure 2, respectively.

On May 20, 2022, a crude oil release occurred at the Hagberry 9 Battery 1. The inlet line of the flare flooded due to a stuck free water knockout dump pilot and resulted in the overspray release. The released crude oil ignited at the flare blower but was self-extinguished and contained to the equipment in the immediate area of the blower. On May 23, 2022, Centennial reported the release to the NMOCD District 1 Office located in Hobbs, New Mexico and the release was assigned the incident number nAPP2214356019. A Release Notification and Corrective Action Form (Form C-141) was subsequently submitted to the NMOCD on May 31, 2022. The release was reported as approximately one (1) barrel of crude oil released. Approximately zero (0) barrels of crude oil recovered, resulting in a net loss of approximately one (1) barrel of crude oil. A copy of the NMOCD Release Notification and Corrective Action Form C-141 is attached to this Workplan.

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. A further search of

the USGS database identified the closest registered water well is USGS Well #: 322446103240501 located approximately one and three-tenths (1.30) of a mile southwest of the Release Site. The average depth of groundwater for USGS Well #: 322446103240501 is recorded at approximately forty-seven (47) 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 following soil remediation levels will be assigned to the Release Site as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site remediation levels are 10 mg/kg for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), 100 mg/kg for total petroleum hydrocarbons (TPH), and 600 mg/kg for chloride concentrations.

On September 20, 2022, TRC conducted initial excavation activities to address the heavily saturated soil around the flare and other production equipment. Soil was placed on a 6-mil polyethylene liner on site awaiting disposal. On September 28, 2022, following initial excavation activities TRC collected one (1) composite soil sample from the base and four (4) composite soil samples from the sidewalls of the excavated area. In addition, one (1) composite soil sample was collected from the stockpiled soil. Laboratory analytical results indicated all collected soil samples were below NMOCD remediation levels for benzene, BTEX, and chloride concentrations. TPH concentrations were above NMOCD remediation levels for all collected samples.

Based on the field observations made during the initial site assessment of the impacted area on June 9, 2022 and initial laboratory analytical results from the September 28, 2022 sampling event, TRC proposes the following field activities designed to complete remediation activities at the Hagberry 9 Battery 1.

- The areas represented by soil samples BH-1 @ 42”, NW-1 @ 24”, SW-1 @ 24”, WW-1 @ 24”, and EW-1 @ 24” is anticipated to be excavated an additional two (2) to three (3) feet horizontally and vertically or until field screening activities indicate TPH concentrations are below NMOCD remediation levels.
- TRC will conduct horizontal and vertical field delineation activities to determine excavation extent and depths within the minimal impacted area.
- Impacted areas will be excavated to the extent and depths based on field delineation activities. Following excavation activities, confirmation soil samples will be collected every two hundred (200) square feet from the base and sidewalls of the excavated area. Samples will be submitted for TPH, BTEX, and chloride analysis.
- Upon receipt of analytical results below NMOCD remediation levels, TRC will backfill the excavation with locally purchased non-impacted “like” soil or caliche. In addition, impacted soil will be transported under manifest to an NMOCD approved disposal facility (Sundance Facility).
- Prepare and submit a “Remediation Summary and Site Closure Request” to the NMOCD.

TRC recommends submitting this work plan to the NMOCD. TRC is prepared to begin the activities outlined in this Proposed Remediation Workplan upon NMOCD approval. Work will be completed within 90 days following NMOCD approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-230-3763 (cell).

Thank you,

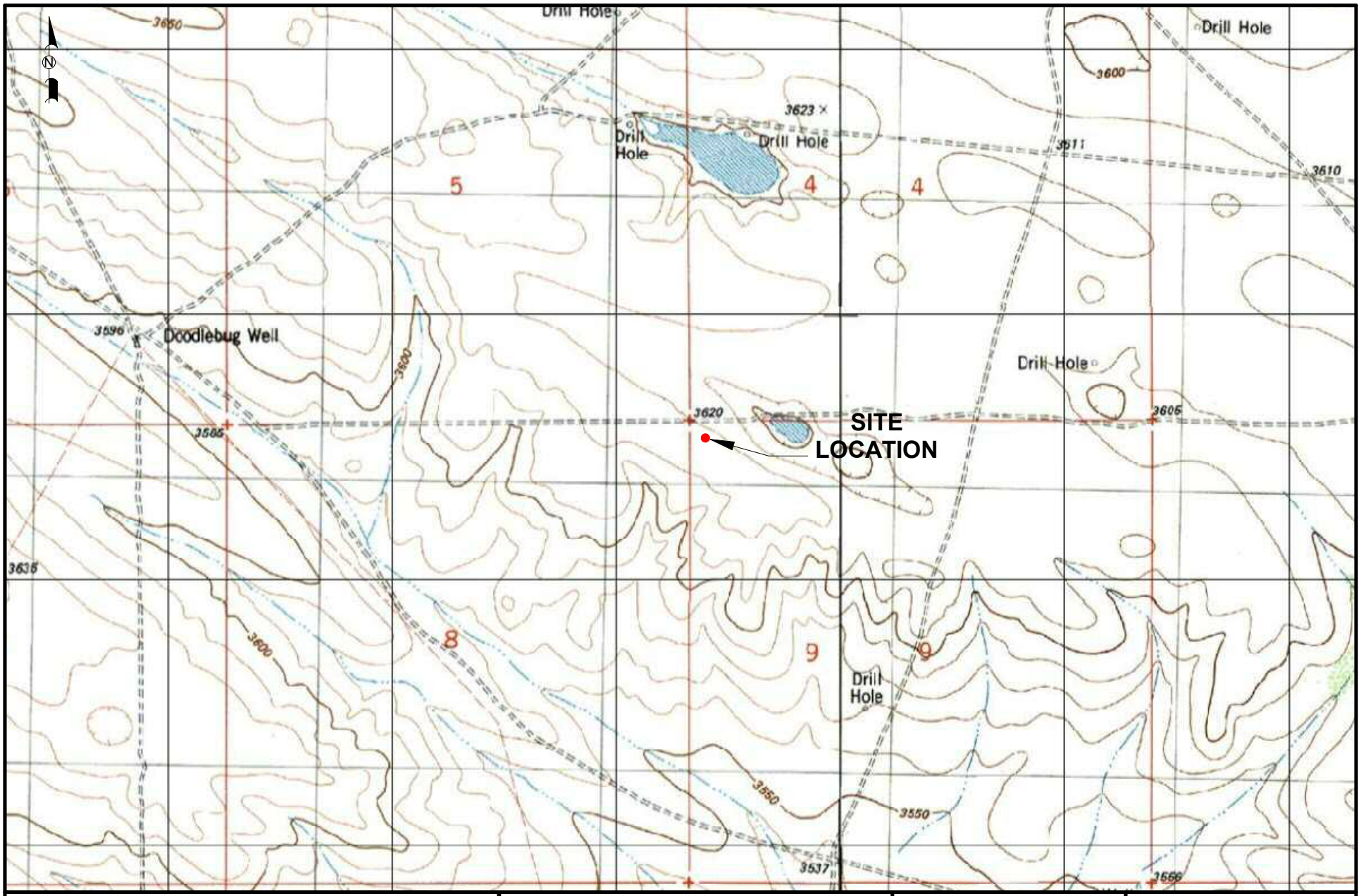
Matthew Green

Matthew Green, P.G.
Senior Project Manager

Attachments:

Figure 1 - Site Location Map
Figure 2 - Site Details Map
Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil
Photographic Documentation
Laboratory Analytical Results
Release Notification and Corrective Action (Form C-141)

cc: File



LEGEND:

Native Grassland

Surface Water

Figure 1
Site Location Map
Centennial Resource Production, Inc.
Hagberry 9 Battery 1
Township 22S, Section 9, Range 035E
Lea County, NM

Scale: 1" = 1500'
CAD By: JPR
Checked By: MKG
Draft: September 14, 2022
Lat. N 32.41242° Long. W 103.37969°

TRC

LEGEND:

- Initial Excavated Area
- Minimally Impacted Area
- Bottom Hole Composite Soil Sample Location
- Sidewall Composite Soil Sample Location

100 50 0 50 100

Distance in Feet

Figure 2
Site Details Map
Centennial Resource Production, Inc.
Hagberry 9 Battery 1
Township 22S, Section 9, Range 035E
Lea County, NM

Scale: 1" = 100'
Map By: MKG
Checked By: JPR
Draft: December 18, 2022
Lat. N 32.41242° Long. W 103.37969°

TRC

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

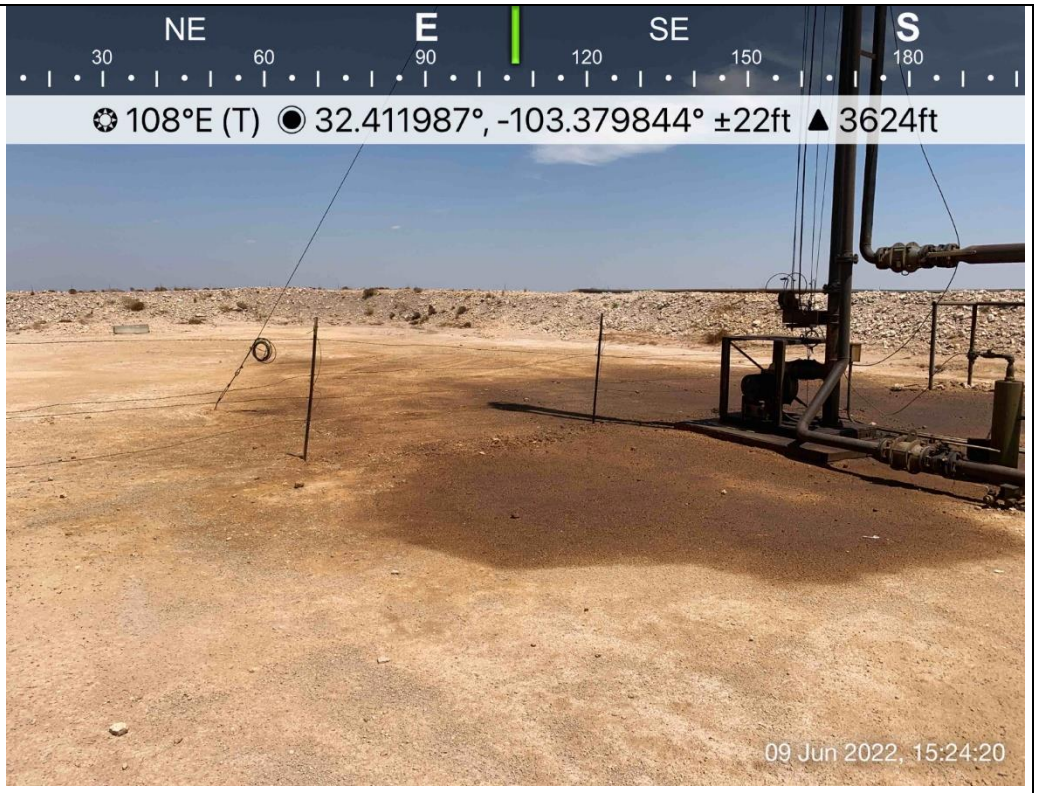
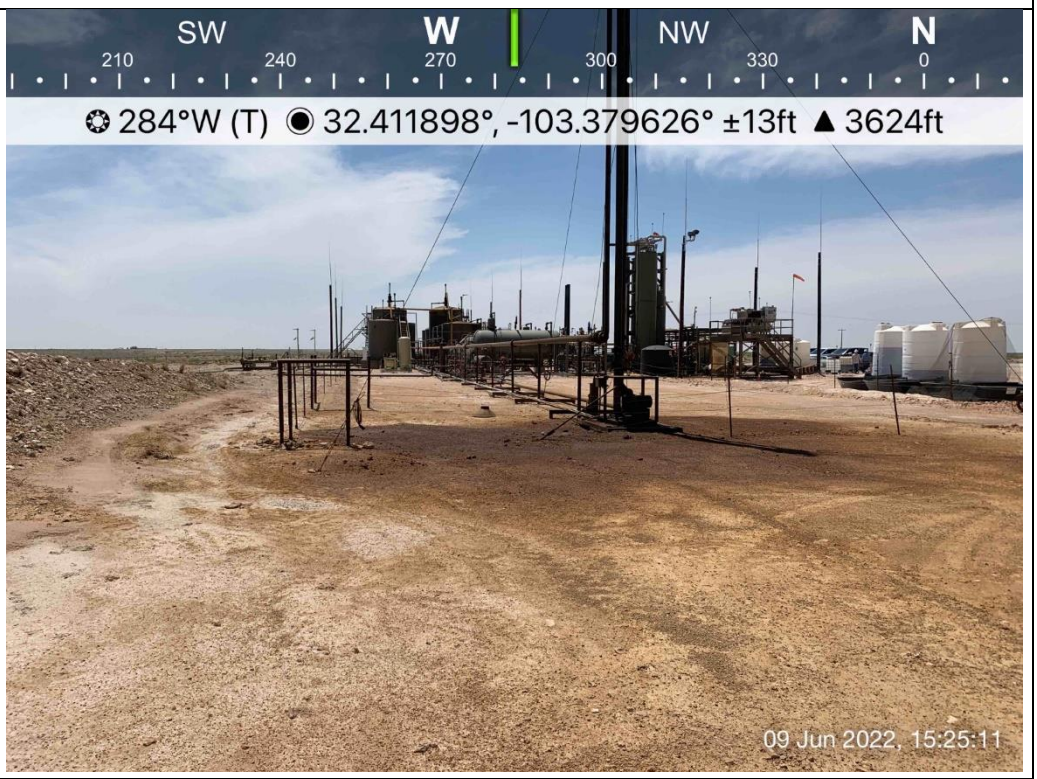
PERMIAN RESOURCES CORPORATION (FORMERLY CENTENNIAL)
HAGBERRY 9 BATTERY 1 FIRE
LEA COUNTY, NEW MEXICO
CDEVID PROJECT #: 75598

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 @ 24"	09/28/22	0.0333	2.85	4.42	6.51	3.24	17.0533	453	9,630	1,510	**11,600**	16.7
SW-1 @ 24"	09/28/22	0.0280	2.47	3.17	4.72	2.18	12.568	518	10,000	1,400	**12,000**	16.6
WW-1 @ 24"	09/28/22	0.0522	1.86	1.83	2.87	1.18	7.7922	253	7,920	1,560	**9,730**	70.0
EW-1 @ 24"	09/28/22	0.00285	0.0627	0.130	0.171	0.0663	0.43285	37.4	2,150	452	**2,640**	41.8
Bottomhole Sample Results												
BH-1 @ 42"	09/28/22	0.00421	0.188	0.119	0.190	0.0876	0.58881	59.1	4,140	768	**4,970**	31.7
Composite Soil Sample Results												
Stockpile	09/28/22	0.00564	0.365	0.318	0.450	0.235	1.37364	298	7,330	1,710	**9,340**	267

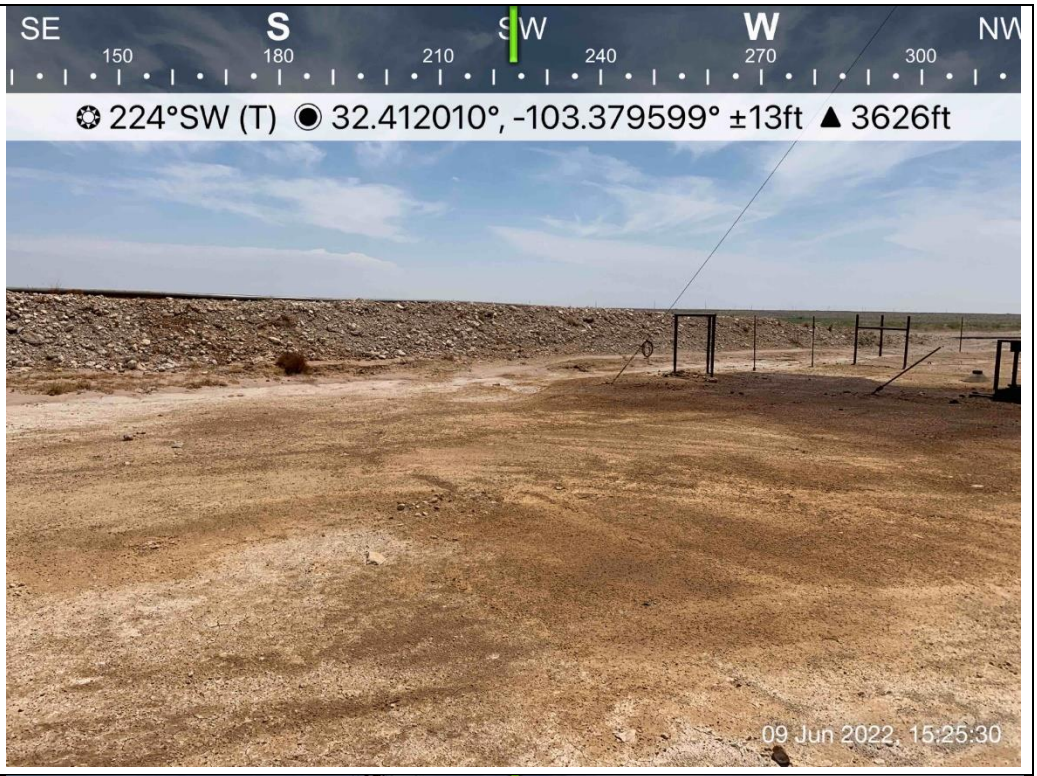
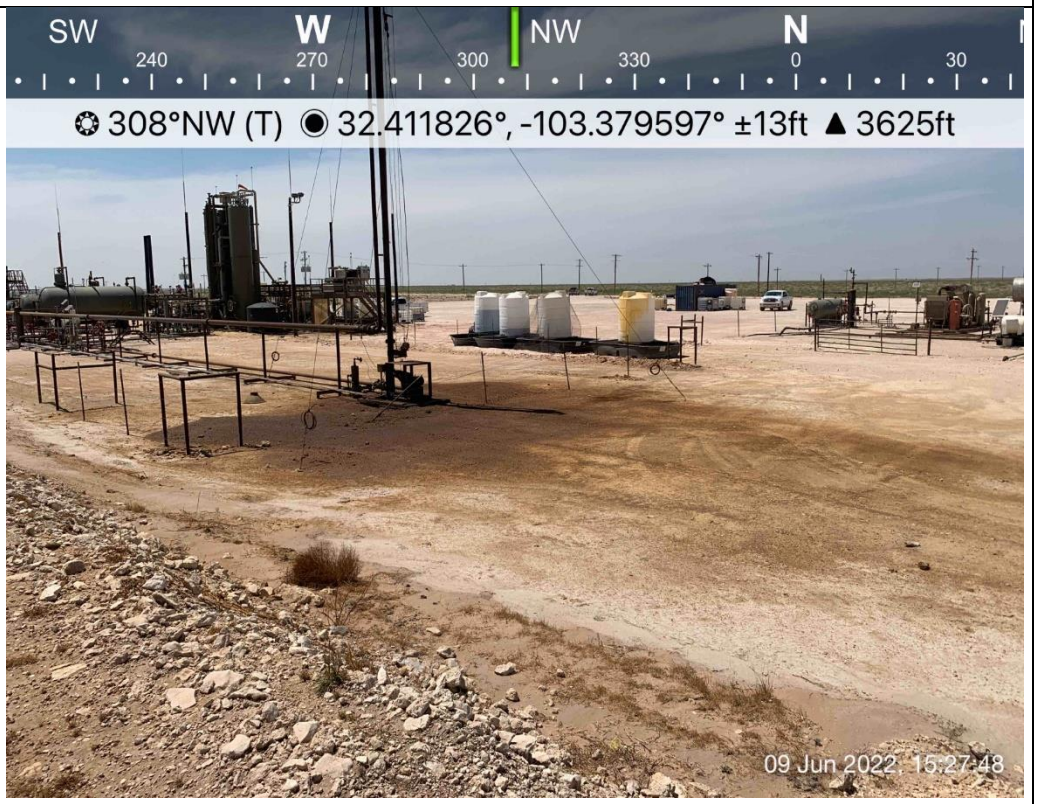
Photographic Documentation

Client: *Centennial Resources Development, LLC.* **CDEV ID #:** *75598*
Project Name: *Hagberry 9 Battery 1 Fire* **Location:** *Lea County, NM*

Photograph No. 1 **Date:** **June 9, 2022** **Direction:** **Southeast** **Description:** **View of impacted area.**	
Photograph No. 2 **Date:** **June 9, 2022** **Direction:** **West** **Description:** **View of impacted area.**	

Photographic Documentation

Client: *Centennial Resources Development, LLC.* **CDEV ID #:** *75598*
Project Name: *Hagberry 9 Battery 1 Fire* **Location:** *Lea County, NM*

Photograph No. 3 **Date:** **June 9, 2022** **Direction:** **Southwest** **Description:** **View of impacted area.**	
Photograph No. 4 **Date:** **June 9, 2022** **Direction:** **Northwest** **Description:** **View of impacted 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 Hagberry 9 Battery 1 Fire

Project Number: 75598

Location: Lea County, NM

Lab Order Number: 2I30005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 10/06/22

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-1 @ 24"	2I30005-01	Soil	09/28/22 10:30	09-29-2022 16:06
SW-1 @ 24"	2I30005-02	Soil	09/28/22 10:35	09-29-2022 16:06
WW-1 @ 24"	2I30005-03	Soil	09/28/22 10:45	09-29-2022 16:06
EW-1 @ 24"	2I30005-04	Soil	09/28/22 10:40	09-29-2022 16:06
BH-1 @ 42"	2I30005-05	Soil	09/28/22 10:50	09-29-2022 16:06
Stockpile	2I30005-06	Soil	09/28/22 11:05	09-29-2022 16:06

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

NW-1 @ 24"

2I30005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	**0.0333**	0.0202	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:04	EPA 8021B	
Toluene	**2.85**	0.0202	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:04	EPA 8021B	
Ethylbenzene	**4.42**	0.0202	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:04	EPA 8021B	
Xylene (p/m)	**6.51**	0.0404	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:04	EPA 8021B	
Xylene (o)	**3.24**	0.0202	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*64.8 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:04*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*85.3 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:04*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16.7**	1.01	mg/kg dry	1	P2J0304	10/03/22 10:16	10/04/22 11:25	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	**453**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:10	TPH 8015M	
>C12-C28	**9630**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:10	TPH 8015M	
>C28-C35	**1510**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*74.4 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**11600**	126	mg/kg dry	5	[CALC]	10/04/22 14:28	10/06/22 12:10	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

SW-1 @ 24"

2I30005-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.0280**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:25	EPA 8021B	
Toluene	**2.47**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:25	EPA 8021B	
Ethylbenzene	**3.17**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:25	EPA 8021B	
Xylene (p/m)	**4.72**	0.0400	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:25	EPA 8021B	
Xylene (o)	**2.18**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.7 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*65.8 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:25*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16.6**	1.00	mg/kg dry	1	P2J0304	10/03/22 10:16	10/04/22 11:39	EPA 300.0	
% Moisture	ND	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	**518**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:33	TPH 8015M	
>C12-C28	**10000**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:33	TPH 8015M	
>C28-C35	**1400**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.8 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**12000**	125	mg/kg dry	5	[CALC]	10/04/22 14:28	10/06/22 12:33	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

WW-1 @ 24"

2I30005-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.0522**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:46	EPA 8021B	
Toluene	**1.86**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:46	EPA 8021B	
Ethylbenzene	**1.83**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:46	EPA 8021B	
Xylene (p/m)	**2.87**	0.0400	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:46	EPA 8021B	
Xylene (o)	**1.18**	0.0200	mg/kg dry	20	P2I3008	09/30/22 14:31	10/03/22 11:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*70.4 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:46*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/03/22 11:46*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**70.0**	1.00	mg/kg dry	1	P2J0304	10/03/22 10:16	10/04/22 11:52	EPA 300.0	
% Moisture	ND	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	**253**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:56	TPH 8015M	
>C12-C28	**7920**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:56	TPH 8015M	
>C28-C35	**1560**	125	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 12:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*64.3 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 12:56*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**9730**	125	mg/kg dry	5	[CALC]	10/04/22 14:28	10/06/22 12:56	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

EW-1 @ 24"

2I30005-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00285**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 02:53	EPA 8021B	
Toluene	**0.0627**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 02:53	EPA 8021B	
Ethylbenzene	**0.130**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 02:53	EPA 8021B	
Xylene (p/m)	**0.171**	0.00202	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 02:53	EPA 8021B	
Xylene (o)	**0.0663**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 02:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 02:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 02:53*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**41.8**	1.01	mg/kg dry	1	P2J0304	10/03/22 10:16	10/04/22 12:05	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	**37.4**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:11	TPH 8015M	
>C12-C28	**2150**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:11	TPH 8015M	
>C28-C35	**452**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 05:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 05:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2640**	25.3	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 05:11	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

BH-1 @ 42''

2I30005-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00421**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:14	EPA 8021B	
Toluene	**0.188**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:14	EPA 8021B	
Ethylbenzene	**0.119**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:14	EPA 8021B	
Xylene (p/m)	**0.190**	0.00202	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:14	EPA 8021B	
Xylene (o)	**0.0876**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*86.3 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*71.0 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:14*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**31.7**	1.01	mg/kg dry	1	P2J0304	10/03/22 10:16	10/04/22 12:18	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	**59.1**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:34	TPH 8015M	
>C12-C28	**4140**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:34	TPH 8015M	
>C28-C35	**768**	25.3	mg/kg dry	1	P2J0412	10/04/22 14:28	10/06/22 05:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.3 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 05:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 05:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**4970**	25.3	mg/kg dry	1	[CALC]	10/04/22 14:28	10/06/22 05:34	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
Midland TX, 79705	Project Manager: Matthew Green

Stockpile

2I30005-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00564**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:36	EPA 8021B	
Toluene	**0.365**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:36	EPA 8021B	
Ethylbenzene	**0.318**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:36	EPA 8021B	
Xylene (p/m)	**0.450**	0.00202	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:36	EPA 8021B	
Xylene (o)	**0.235**	0.00101	mg/kg dry	1	P2I3008	09/30/22 14:31	10/01/22 03:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*69.8 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:36*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2I3008*	*09/30/22 14:31*	*10/01/22 03:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**267**	1.01	mg/kg dry	1	P2J0305	10/03/22 11:20	10/03/22 16:13	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	**298**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:20	TPH 8015M	
>C12-C28	**7330**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:20	TPH 8015M	
>C28-C35	**1710**	126	mg/kg dry	5	P2J0412	10/04/22 14:28	10/06/22 13:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 13:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P2J0412*	*10/04/22 14:28*	*10/06/22 13:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**9340**	126	mg/kg dry	5	[CALC]	10/04/22 14:28	10/06/22 13:20	calc	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0960*		*"*	*0.120*		*80.0*	*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: 4-Bromofluorobenzene	*0.0992*		*"*	*0.120*		*82.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0977*		*"*	*0.120*		*81.4*	*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: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0990*		*"*	*0.120*		*82.5*	*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: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0929*		*"*	*0.120*		*77.4*	*75-125*			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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 P2J0304 - * DEFAULT PREP *** **										
Blank (P2J0304-BLK1)				Prepared & Analyzed: 10/03/22						
Chloride	ND	1.00	mg/kg							
LCS (P2J0304-BS1)				Prepared & Analyzed: 10/03/22						
Chloride	21.2		mg/kg	20.0		106	90-110			
LCS Dup (P2J0304-BSD1)				Prepared & Analyzed: 10/03/22						
Chloride	20.4		mg/kg	20.0		102	90-110	3.81	10	
Calibration Blank (P2J0304-CCB1)				Prepared & Analyzed: 10/03/22						
Chloride	0.0440		mg/kg							
Calibration Blank (P2J0304-CCB2)				Prepared: 10/03/22 Analyzed: 10/04/22						
Chloride	0.0510		mg/kg							
Calibration Check (P2J0304-CCV1)				Prepared & Analyzed: 10/03/22						
Chloride	20.3		mg/kg	20.0		102	90-110			
Calibration Check (P2J0304-CCV2)				Prepared: 10/03/22 Analyzed: 10/04/22						
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P2J0304-CCV3)				Prepared: 10/03/22 Analyzed: 10/04/22						
Chloride	20.7		mg/kg	20.0		103	90-110			
Matrix Spike (P2J0304-MS1)		**Source: 2I29012-01**		Prepared & Analyzed: 10/03/22						
Chloride	6060	26.0	mg/kg dry	1300	4810	96.5	80-120			
Matrix Spike (P2J0304-MS2)		**Source: 2I29014-05**		Prepared: 10/03/22 Analyzed: 10/04/22						
Chloride	310	1.00	mg/kg dry	250	67.6	97.0	80-120			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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 P2J0304 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2J0304-MSD1)	**Source: 2I29012-01**			Prepared & Analyzed: 10/03/22						
Chloride	6190	26.0	mg/kg dry	1300	4810	106	80-120	1.97	20	
Matrix Spike Dup (P2J0304-MSD2)	**Source: 2I29014-05**			Prepared: 10/03/22 Analyzed: 10/04/22						
Chloride	300	1.00	mg/kg dry	250	67.6	92.9	80-120	3.37	20	
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			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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 *** **										
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			
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

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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-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	
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	

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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*			

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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*

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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.
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

TRC Solutions- Midland, Texas	Project: Centennial Hagberry 9 Battery 1 Fire
10 Desta Dr STE 150E	Project Number: 75598
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: Leah Mishler (signature)
e-mail: mgreen@trccompanies.com
nikki.mishler@cdevinc.com

Project Name: Hagberry 9 Battery 1 Fire
Project #: 75598
Project Loc: Lea County, New Mexico
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 2I30005

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: / TOTAL:)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix	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	NW-1 @ 24"			9/28/2022	10:30		2	x								S	X								X			X				x
2	SW-1 @ 24"			9/28/2022	10:35		2	x								S	X								X			X				x
3	WW-1 @ 24"			9/28/2022	10:45		2	x								S	X								X			X				x
4	EW-1 @ 24"			9/28/2022	10:40		2	x								S	X								X			X				x
5	BH-1 @ 42"			9/28/2022	10:50		2	x								S	X								X			X				x
6	Stockpile			9/28/2022	11:05		2	x								S	X								X			X				x

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Leah Mishler (signature)	9/29/22	16:06			
			Received by PBEL: Tressa Bledsoe (signature)	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: ~~2.6~~ 4.1 °C CF +1
Adjusted: ~~3.6~~ 5.1 °C Factor

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	nAPP2214356019
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 # nAPP2214356019
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.41242 Longitude -103.37969
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hagberry 9 Battery 1	Site Type: Production Facility
Date Release Discovered: 5/20/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	9	22S	035E	Lea

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

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) 1	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 inlet line of the flare flooded due to a stuck FWK dump pilot and resulted in an overspray release of crude oil from the flare. On 5/22/22, an assessment of the flare equipment was conducted, and it was discovered a small fire at the flare blower had occurred due to the release. The fire was self-extinguished and contained to the equipment in the immediate area of the blower. Based on the square footage of the impacted soil, which was mainly overspray, (1000 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 1 bbl of crude oil was released.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214356019
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, once it was discovered on 5/22/22 a fire occurred as a result of the release, the immediate notice was submitted via the OCD Permitting NOR Application as a Major release by Nikki Mishler on 5/23/2022.

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: 5/31/22

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

OCD Only

Received by: Jocelyn Harimon
Date: 05/31/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 111992
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/7/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 171133
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please collect a few surficial soil samples from the "minimally impacted area" to confirm remediation is not warranted.	1/25/2023