Sanjari, Melodie (MRO)

From:	Sanjari, Melodie (MRO)
Sent:	Friday, March 11, 2022 12:43 PM
То:	'OCDOnline@state.nm.us'; 'Hensley, Chad, EMNRD'
Subject:	RE: [External] The Oil Conservation Division (OCD) has rejected the application,
-	Application ID: 68692

Good Afternoon Mr. Hensley,

Just wanted to drop a note that I will be re-submitting this closure report this afternoon with updated groundwater data after drilling a temporary monitoring well this past month.

Please let me know if you have any questions.

Melodie Sanjari Environmental Professional Permian & Oklahoma 575-988-8753



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, January 18, 2022 12:25 PM
To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Subject: [External] The Oil Conservation Division (OCD) has rejected the application, Application ID: 68692

Beware of links/attachments.

To whom it may concern (c/o Melodie Sanjari for MARATHON OIL PERMIAN LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2131330323, for the following reasons:

• The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 68692.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

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Thank you, Chad Hensley Environmental Science & Specialist 575-703-1723 <u>Chad.Hensley@state.nm.us</u>

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505



closure request MARATHON OIL COMPANY

Created for submission to New Mexico Oil Conservation Division on 03/11/2022

ASHLEY GIOVENGO Environmental Manager - Permian

ENERGIZING AMERICA

Received by OCD: 3/11/2022 12:15:43 PM

March 11, 2022

Bradford Billings, Chad Hensley, Jennifer Nobui, Nelson Velez, and/or Robert Hamlet

State of New Mexico Energy, Minerals, and Natural Resources New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: CLOSURE REQUEST

COMPANY	Marathon Oil Company
LOCATION	Chili Parlor 17 Federal #002H
ΑΡΙ	30-025-43137
PLSS	Unit P Sec 08 T22S R33E
GPS	32.399717, -103.588194
INCIDENT ID	nAPP2131330323

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this closure request on behalf of Marathon Oil Company, hereafter referred to as Marathon, regarding the release at the Chili Parlor 17 Federal #002H (Site) located in Unit P, Section 08, Township 22 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.399717 and West -103.588194. Surface owner of the site is State Land. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 2 Artesia.

According to the C-141, Attachment A, a high level on the heater treater carried over to the high-pressure flare, which caused approximately 0.21 barrels (bbl) of hydrocarbons to exit the flare, ignite and then self-extinguish. Approximately 100 square feet (sq. ft) of the pasture, to the Southwest of the engineered pad, and the material beneath the flare was scorched. A bucket truck was used to pressure wash the high-pressure flare stack and a skidsteer was utilized to remove stained soils on the caliche pad.

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates nearest ground water measurement greater than 101 feet below ground surface (bgs) and is 0.15 miles South of the Site, shown in Attachment C. Additional wells in the area support the data in the nearest water measurement. No playas or lakes are located within a within a one-mile radius of this site (see Attachment C).



KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within low karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

TARGET REMEDIAL LEVELS

Well log files submitted to OSE and USGS indicate that depth to water (DTW) exceeds 110 feet bgs in the area surrounding the Site and which verifies the use of the highest Remediation Action Levels (RRAL). The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX) and, 2500 ppm Total Petroleum Hydrocarbons (TPH), characterization of vertical and horizontal extent of chloride concentration to a level of 20000 mg/kg (ppm) is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Chili Parlor 17 Federal 2H — 32.399717, -103.588194						
Depth to Groundwater		Cla	osure Criteria	(unites in mg	/kg)	
		Chloride * numberical limit or background, whichever is greater	ТРН	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	>101	20000	2500	1000	50	10
Surface Water	Yes or No		If ye	s, then		-
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics



REMEDIATION ACTIVITIES

Beginning November 15, 2021, Marathon contracted Wescom to conduct remediation activities onsite and to remove any contamination from the vegetation offsite. A skidsteer was used to remove contaminated soil from the surface of the caliche pad. Impacted material from the surface scrape was transported to an approved disposal facility. The high-pressure flare stack was pressure washed and returned to working condition.



Photo: North Side of Spill Area

CONFIRMATION SAMPLING

A 48-hour sampling notification was given on November 30, 2021, to Victoria Venegas, Robert Hamlet, Chad Hensley, and Mike Bratcher with the NMOCD in Santa Fe, New Mexico. Emails are shown in Attachment F.

Confirmation composite samples were obtained from the excavation on December 02, 2021. All soil samples were properly packaged, preserved, and transported to Hall Environmental by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015M/D, BTEX—Method 8021B, and Chlorides— Method 300.0. Confirmation samples collected at zero feet and half a foot bgs were all below the applicable RRAL for the Site as shown in Table 1. A background sample BG01 was collected 55 feet Northwest of the caliche pad.

REQUEST FOR CLOSURE

Based on the attached confirmation sample laboratory data, depth to ground water being greater than 101 feet bgs and the fact that impacted material from this release has been removed and properly disposed of; Marathon hereby requests closure for nAPP2131330323. Marathon also requests that no further action be taken at this time.



Sincerely,

Wescom, Inc.

Ashley Giovengo Environmental Manager-Permian

cc: Melodie Sanjari, Marathon Oil Company

Bradford Billings, NMOCD

Chad Hensley, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD

Robert Hamlet, NMOCD

REFERENCE MATERIALS

FIGURES

FIGURE 1. Confirmation Sampling

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A.	Signed C-141
ATTACHMENT B.	Site Photos
ATTACHMENT C.	Closure Criteria Supporting Documents
ATTACHMENT D.	Karst Map
ATTACHMENT E.	Hall Laboratory Analysis Reports
ATTACHMENT F.	48-Hour Confirmation Sample Notification Emails



FIGURE 1

Confirmation Samples





FIGURE 1. CONFIRMATION SAMPLES

Chili Parlor 17 Federal 2H Incident ID: nAPP2131330323 API: 30-025-43137 GPS Coordinates: 32.399717, -103.588194 Lea County, New Mexico Marathon Oil Company



TABLE 1

Laboratory Analysis Results: Confirmation Samples

Chili Parlor 17 Fed 2H nAPP2131330323							
Marathon Oil Company 12.17.2021							
	Table 1. Confirmation Laboratory Analysis Results						
Sam	ple Descrip	tion	Pet	roleum H	- - Hydrocar	bons	Inorganic
			Vola	tile	Extr	actable	
				BTEX			
			Benzene	(total)	TPH	GRO+DRO	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clo	osure Criter	ia	10	50	2500	1000	20000
CONF01	0	12/2/2021	ND	ND	420	240	63
CONF01	0.5	12/2/2021	ND	ND	150	87	ND
CONF02	0	12/2/2021	ND	ND	250	140	ND
CONF02	0.5	12/2/2021	ND	ND	240	130	ND
CONF03	0	12/2/2021	ND	ND	930	530	ND
CONF03	0.5	12/2/2021	ND	ND	230	130	ND
CONF04	0	12/2/2021	ND	ND	990	510	ND
CONF04	0.5	12/2/2021	ND	ND	1100	540	ND
CONF05	0	12/2/2021	ND	ND	860	440	ND
CONF05	0.5	12/2/2021	ND	ND	970	570	ND
CONF06	0	12/2/2021	ND	ND	710	400	ND
CONF06	0.5	12/2/2021	ND	ND	680	440	ND
CONF07	0	12/2/2021	ND	ND	138	72	ND
CONF07	0.5	12/2/2021	ND	ND	42	42	ND
CONF08	0	12/2/2021	ND	ND	ND	ND	ND
CONF08	0.5	12/2/2021	ND	ND	9.7	9.7	ND
CONF09	0	12/2/2021	ND	ND	ND	ND	ND
CONF09	0.5	12/2/2021	ND	ND	ND	ND	ND
BG01	1	12/2/2021	-	-	-	-	ND
BG01 0 12/2/2021 ND							
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics							
DRO — Diesel Range Organics ND — Non-detect							
ft. — Feet mg/kg — Milligrams per Kilogram							
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							

Energizing America wescominc.com | info@wescominc.com | 218-724-1322

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ATTACHMENT A

Signed C-141



District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

Page 13 of 62

Incident ID	nAPP2131330323
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude

Longitude -103.58819381 (NAD 83 in decimal degrees to 5 decimal places)

Site Name CHILI PARLOR 17 FEDERAL #002H	Site Type Oil & Gas Facility
Date Release Discovered: 11/8/2021	API# (if applicable) 30-025-43137

Unit Letter	Section	Township	Range	County
Р	08	22S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: _____

32.39971673

Nature and Volume of Release

Materia	ul(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 0.21	Volume Recovered (bbls)
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

A high level on the heater treater carried over to the HP flare, which caused approx. 0.21 bbl. of hydrocarbons to exit the flare, ignite, and then self-extinguish. The material beneath the flare is scorched as well as approx. ~ 100 sq. ft. of the pasture to the south west of the engineered pad. Characterization/Confirmation samples will be collected after a 48 hour notification is provided to both NM OCD and SLO.

Page		Page 1
Was this a major release as defined by 19.15.29.7(A) NMAC? If YES, for what reason(s) does the responsible party consider this a major release? Fire Fire If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? SLO and OCD were notified within 24 hours via email and the OCD online portal.	Incident ID	nAPP2131330323
Was this a major If YES, for what reason(s) does the responsible party consider this a major release? Fire Fire Yes No If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? SLO and OCD were notified within 24 hours via email and the OCD online portal.	District RP	
Was this a major release as defined by 19.15.29.7(A) NMAC? If YES, for what reason(s) does the responsible party consider this a major release? Fire Yes No If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? SLO and OCD were notified within 24 hours via email and the OCD online portal.	Facility ID	
release as defined by 19.15.29.7(A) NMAC?	Application ID	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	safety hazard that woul	ld result in injury
•		safety hazard that wou

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: <u>Melodie Sanjari</u>	Title:Environmental Professional
Signature: <u>Melodíe Sanjarí</u>	Date: 11/10/2021
email: <u>msanjari@marathonoil.com</u>	Telephone: <u>575-988-8753</u>
OCD Only	
Received by:	Date:



_	Length (ft.)	Width (ft.)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Tank Displacement					0.00	0.00	0.00
Tank Displacement					0.00	0.00	0.00
•				Liquid Volume:	0.00	0.00	0.00
Saturated Soil Inputs:	Longth (ft.)	Soil Type:	Avg. Saturated	% Oil	Total Volume	Water Volume	Oil Volume (bble)
Destanala Aura #1	Length (ft.)	Width (ft.)	Depth (in.)		(bbls)	(bbls)	Oil Volume (bbls)
Rectangle Area #1	20	40	0.125	100%	0.21	0.00	0.21
Rectangle Area #2				0% 0%	0.00	0.00	0.00
Rectangle Area #3 Rectangle Area #4				0%	0.00	0.00	0.00
Rectangle Area #5				0%	0.00	0.00	0.00
Rectangle Area #6				0%	0.00	0.00	0.00
Rectangle Area #7				070	0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
				Saturated Volume	0.21	0.00	0.21
<u>Volume</u>	Recovered and no	t included in Stand		•	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
					Total Volume	Water Volume	

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?	<u>>110 (</u> 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 ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Page 3

Received by OCD: 3/11/	2022 12:15:43 PM State of New Mexico			Page 17 of 62
			Incident ID	naPP2131330323
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptanc and/or regulations. Printed Name: <u>Melod</u>	Sanjari Date: 3/11/2022	otifications and perfor OCD does not reliev reat to groundwater, s of responsibility for co	m corrective actions for rele e the operator of liability sh surface water, human health ompliance with any other fe <u>mmental Professional</u>	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		Date:		

Page 6

Oil Conservation Division

	Page 18 of 6
Incident ID	naPP2131330323
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Title: Environmental Professional Printed Name: Melodie Sanjari Signature: Melodie Sanjari Date: 3/11/2022 email: msanjari@marathonoil.com Telephone: 575-988-8753 **OCD Only** Date: 04/05/2022 Chad Hensley Received by: 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. Child #/end_____ Date: 04/05/2022 Closure Approved by: Printed Name: Chad Hensley Title: Environmental Specialist Advanced

ATTACHMENT B

Site Photos









Initial Spill Area (On-Pad)



Initial Spill Area - Cleanup (On-Pad)





Completed Scrape of Spill Area (On-Pad)



Completed Scrape of Spill Area (On-Pad)





West Side of Caliche Pad



Southeast Side of Flare Line (On-Pad)





Edge of Caliche Pad (Burned Weeds)



South Side of Flare Line (On-Pad)

ATTACHMENT C

Closure Criteria Supporting Documents

Chili Parlor 17 Fed 2H

Received by OCD: 3/11/2022 12:15:43 PM

Nearest depth to water measurement 0.15 Miles

Legend

Chili Parlor 17 Fed 2H

Nearest DTW Measurment: 0.15 Miles

900 ft

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SE Well CP 1899

OSE Well CP 1899

Chill Parlor 17 Fed 2H

1t

Merris Martin Martin





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

03/11/2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1899 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1899 Pod1.

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

Sincerely,

Groon Middland

Lucas Middleton

Enclosures: as noted above

09-2011 MAR L1 2022 ##8145



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OUT BOD VIE	(11) T 1 1 1 1 1		1		、 		OPERATI	10(8)					
NO	ose pod no. POD1 (TW	•	.)		WELL TAG ID NO).		OSE FILE NO(S). CP-1899						
OCATI	well owne Marathon (PHONE (OI	PTIONA	L)				
MELL L	WELL OWNE 4111 S Tid		ADDRESS					CITY Carlsbad				tate M	88220	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO	201	DE	GREES 32	MINUTES 23	SECO 59.	.07 N							
ER	(FROM GP		NGITUDE	103	35	16	.17 W	+ DATUM	KEQUIR	GED: WGS 8	54			
1. GEI			NG WELL LOCATION TO 22S R33E, NMPM) STREET ADDR	ESS AND COMMO	N LANDM	IARKS – PLS	SS (SECTION,	TOWNS	SHJIP, RAN	GE) WHER	E AVA	ILABLE	
	LICENSE NO. 124		NAME OF LICENSED		ackie D. Atkins	s			NA		ELL DRILL ins Engine		OMPANY Associates, I	nc.
	DRILLING ST 2/9/20							le depth (f ±101	r) Di	EPTH WAT	TER FIRST	ENCOU n/a	JNTERED (FT)	
N	COMPLETED WELL IS: ARTESIAN I DRY HOLE SHALLOW (UNCONFINED)					ONFINED)			TER LEVEI TED WELL		ľ	DATE STATIC 1 2/24/22, 3		
OITV	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:													
ORMA	DRILLING METHOD: ROTARY HAMMER CABLE TOOL CA													
INF	DEPTH	DEPTH (feet bgl) BORE HOLE CASING					ASING CAS		CASIN	G	CASI	NG WALL	SLOT	
2. DRILLING & CASING INFORMATION	FROM	то	DIAM (inches)		(include each casing string, and T		NECTION FYPE ling diameter	TE (inches)			THICKNESS (inches)		SIZE (inches)	
& C	0	101	±8.5		Boring									
ING									_					
ILL									-			_		
. DR														
4									-					
									C	9000 DB	Y RACE	1.000	1997	-
										an, material solution	• 5 V 1	n en die i	I have and the first to be a first to	2.
														-
	DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AN						AND		AMC			METHO		
3. ANNULAR MATERIAL	FROM	TO	DIAM. (inches)	GRA	VEL PACK SIZE	E-RANG	E BY INT	ERVAL		(cubio	c feet)		PLACEN	IENT
VTEE									_			_		
Z MA									_			_		
ILAF			-											
INN														
Э. А														
FOR	OSE INTER	NAL USE									CORD &	LOG	Version 01/2	8/2022)
	BNO.				POD N	0.			N NO.			_		
LOC	LOCATION WELL TAG ID NO. PAGE 1 OF 2													

.

	DEPTH (1 FROM	eet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						ER NG? NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	Sand Fine	-grained, poorly graded with		Y	√ N			
	9	19	10		e-grained, poorly graded with	_		-	Y	√ N	_
	19	34	15		ned, poorly graded with sub				Y	√ N	
	34	44	10		nd, Fine-grained, poorly grad		Braver, run		Y	√ N	
	44	49	5		ed, poorly graded with sub-a		ravel Brown		Y	✓ N	
	49	101	52	Salu, The-gran	Clay, with sand ,Dry, Bro		aren, brown	_	Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
F W									Y	N	
000							Y	N			
CLC							Y	N			
0ĈĪ						Y	N				
JO2									Y	N	
OGI						Y	N				
YDR								Y	N		
4. H	-								Y	N	
									Y	N	
		l							Y	N	
	······								Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHODI			OF WATER BEARING	F WATER-BEARING STRATA: TOTA						
									l YIELD		0.00
NC	WELL TEST START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.										
TEST; RIG SUPERVISION	MISCELLANEOUS INFORMATION: Temporary well materials removed and he soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips ten feet below ground surface to surface.										
EST	PRINT NAM	E(S) OF D	RILL RIG SUPFI	VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION O	F WELL CON	STRU	CTION OT	HER TH	AN LICENSEE:
5. T											
VTURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:										
6. SIGNATURE	Jack A	tkins		Jac	kie D. Atkins				3/10/2	2022	
Ĩ		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME				1	DATE	
FO	R OSE INTER						WR-20 WF	LLRF	CORD & T	OG (Ve	rsion 01/28/2022)
_	E NO.	AL USE			POD NO.		TRN NO.		W L		
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State	Engineer Well Number: CP-1899 POD1			
Well	owner: Marathon Oil		Phone N	o.:
Maili	ing address: 4111 S Tidwell Rd.			··
City:	Carlsbad	State:	New Mexico	Zip code:
<u>II. V</u>	VELL PLUGGING INFORMATION:			
1)	Name of well drilling company that plugg	ed well: Ja	ackie D. Atkins (Atkins Engi	ineering Associates Inc.)
2)	New Mexico Well Driller License No.: _	249		Expiration Date:
3)	Well plugging activities were supervised Shane Eldridge	by the follow	wing well driller(s)/rig supe	rvisor(s):
4)	Date well plugging began: <u>3/8/2022</u>		_ Date well plugging con	cluded: 3/8/2022
5)	GPS Well Location: Latitude: Longitude:	32 103	_deg, <u>23 min,</u> _deg, <u>35 min, _</u>	59.07 sec 16.17 sec, WGS 84
6)	Depth of well confirmed at initiation of pl by the following manner: weighted tape	ugging as:	101.5 ft below ground	i level (bgl),
7)	Static water level measured at initiation of	f plugging:	ft bgl	
8)	Date well plugging plan of operations was	s approved l	by the State Engineer:	24/2022
9)	Were all plugging activities consistent wir differences between the approved pluggin	th an approving plan and t	ved plugging plan?Y the well as it was plugged (a	'es If not, please describe attach additional pages as needed):
				05E DT MAR 11 2022 ##8145
1				

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

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 31.3 gallons	29.4 gallons	Augers	
-	- - 10'-101'				
-	Drill Cuttings	Approx. 268 gallons	268 gallons	Boring	
-					
-					
_					
-					
1 <u>-</u>					
-				OSE ON M	AR 11 2022 #8:45
-]	cubic feet x 7,4	BY AND OBTAIN 1905 = gallons		
		cubic yards x 201.9	97 = gallons		

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, Jackie D. Atkins

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

Jack Atkins

3/10/2022

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

2022-3-10-CP-1899-POD1_WR-20 Well Record and Log-forsign

Final Audit Report

2022-03-10

2022-03-10
Lucas Middleton (lucas@atkinseng.com)
Signed
CBJCHBCAABAAWqysZ4sd6h3USDVPdzjjClO_yr4VNXdx

"2022-3-10-CP-1899-POD1_WR-20 Well Record and Log-forsig n" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-03-10 - 11:18:50 PM GMT- IP address: 69.21.254.158
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-03-10 - 11:20:32 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-03-10 - 11:22:01 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2022-03-10 - 11:24:39 PM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2022-03-10 - 11:24:39 PM GMT

05E DET MAR 11 2022 ##8:45



12022 12.15.42 DI **Received** by OCD

U.S. Fish and Wildlife Service National Wetlands Inventory

Page 32 of 62 Chili Parlor 17 Fed 2H - Riverine 6,331ft



December 3, 2021

Wetlands

Estuarine and Marine Deepwater

Released to Imaging: 4/5/2022 8:19:21 AM

- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

U.S. Fish and Wildlife Service

National Wetlands Inventory

Chili Parlor 17 Fed 2H - Pond 8,340ft

Page 33 of 62



December 1, 2021

Wetlands

Estuarine and Marine Deepwater

- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Released to Imaging: 4/5/2022 8:19:21 AM



Received by OCD: 3/11/2022 12:15:43 PM

Active Mines Near Chili Parlor 17 Fed 2H



Page 35 of 62

EMNRD MMD GIS Coordinator

Released to Imaging: 4/5/20122g8.Mder2dard Mtural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Received by OCD: 3/11/2022 12:15:43 PM National Flood Hazard Layer FIRMette



Legend

Page 36 of 62



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020
ATTACHMENT D

Karst Map





ATTACHMENT E

Hall Laboratory Analysis Reports

Energizing America wescominc.com | info@wescominc.com | 218-724-1322

Hall E	nvironmental Ana	Analytical ReportLab Order 2112369C.Date Reported:				
CLIENT:	Marathon Oil Company		Client Sa	mple ID:	BG01	-0'
Project:	Chili Parlor 17 Fed 2H 1	1 08 21 Spill	Collecti	on Date:	:12/2/2	021 9:40:00 AM
Lab ID:	2112369-001	Matrix: SOIL	Received Date: 12/7/2021 8:20:00 AM			
Analyses		Result	PQL Qual	Units	DF	Date Analyzed
EPA ME	THOD 300.0: ANIONS					Analyst: LRN
Chloride		ND	60	mg/Kg	20	12/10/2021 3:45:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 0

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Hall E	nvironmental Ana	Analytical ReportLab Order 2112369Date Reported:				
CLIENT:	Marathon Oil Company		Client Sa	mple ID:	BG01	-1'
Project:	Chili Parlor 17 Fed 2H 1	1 08 21 Spill	Collecti	on Date:	12/2/2	021 9:42:00 AM
Lab ID:	2112369-002	Matrix: SOIL	Received Date: 12/7/2021 8:20:00 AM			
Analyses		Result	PQL Qual	Units	DF	Date Analyzed
EPA ME	THOD 300.0: ANIONS					Analyst: LRN
Chloride		ND	60	mg/Kg	20	12/10/2021 3:57:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 0

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Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF01-0' Project: Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 9:49:00 AM Lah ID. 2112260 002 Matrix, SOII ъ

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

Analyte detected in the associated Method Blank в

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 0

noived Data, 12/7/2021 8.20.00 AM

Lab ID:	2112369-003	Matrix: SOIL	R	eceiv	ed Date:	12/7/2	021 8:20:00 AM
Analyses		Result	PQL (Qual	Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: SB
Diesel R	ange Organics (DRO)	240	19		mg/Kg	2	12/10/2021 10:04:32 PM
Motor O	il Range Organics (MRO)	180	95		mg/Kg	2	12/10/2021 10:04:32 PM
Surr:	DNOP	61.4	70-130	S	%Rec	2	12/10/2021 10:04:32 PM
EPA ME	THOD 8015D: GASOLINE R	ANGE					Analyst: RAA
Gasoline	e Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2021 11:34:00 AM
Surr:	BFB	87.6	70-130		%Rec	1	12/8/2021 11:34:00 AM
EPA ME	THOD 8021B: VOLATILES						Analyst: RAA
Benzene	e	ND	0.025		mg/Kg	1	12/8/2021 11:34:00 AM
Toluene		ND	0.049		mg/Kg	1	12/8/2021 11:34:00 AM
Ethylber	nzene	ND	0.049		mg/Kg	1	12/8/2021 11:34:00 AM
Xylenes	, Total	ND	0.098		mg/Kg	1	12/8/2021 11:34:00 AM
Surr:	4-Bromofluorobenzene	77.5	70-130		%Rec	1	12/8/2021 11:34:00 AM
EPA ME	THOD 300.0: ANIONS						Analyst: LRN
Chloride	•	63	60		mg/Kg	20	12/9/2021 8:35:55 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF02-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 9:51:00 AM Lab ID: 2112369-004 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 140 9.4 mg/Kg 1 12/9/2021 8:41:53 AM Motor Oil Range Organics (MRO) 110 47 mg/Kg 1 12/9/2021 8:41:53 AM Surr: DNOP 84.7 70-130 %Rec 1 12/9/2021 8:41:53 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 11:54:00 AM 4.8 mg/Kg 1 Surr: BFB 88.2 70-130 %Rec 1 12/8/2021 11:54:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 12/8/2021 11:54:00 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 12/8/2021 11:54:00 AM Ethylbenzene ND 0.048 mg/Kg 1 12/8/2021 11:54:00 AM Xylenes, Total ND 0.097 mg/Kg 1 12/8/2021 11:54:00 AM %Rec Surr: 4-Bromofluorobenzene 81.8 70-130 1 12/8/2021 11:54:00 AM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 12/9/2021 8:48:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded ND
- Not Detected at the Reporting Limit POL
- Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

ma/Ka

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- Р Sample pH Not In Range
- Reporting Limit RL

Page 4 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF03-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 9:53:00 AM Lab ID: 2112369-005 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 530 49 mg/Kg 5 12/10/2021 10:46:46 PM Motor Oil Range Organics (MRO) 5 400 250 mg/Kg 12/10/2021 10:46:46 PM 70-130 Surr: DNOP 62.8 S %Rec 5 12/10/2021 10:46:46 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 12:13:00 PM 4.8 mg/Kg 1 Surr: BFB 86.9 70-130 %Rec 1 12/8/2021 12:13:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 12/8/2021 12:13:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 12/8/2021 12:13:00 PM Ethylbenzene ND 0.048 mg/Kg 1 12/8/2021 12:13:00 PM Xylenes, Total ND 0.096 mg/Kg 1 12/8/2021 12:13:00 PM %Rec Surr: 4-Bromofluorobenzene 79.2 70-130 1 12/8/2021 12:13:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 12/9/2021 9:00:38 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 5 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF04-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 9:59:00 AM Lab ID: 2112369-006 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 510 44 mg/Kg 5 12/10/2021 10:57:21 PM Motor Oil Range Organics (MRO) 5 480 220 mg/Kg 12/10/2021 10:57:21 PM Surr: DNOP 71.1 70-130 %Rec 5 12/10/2021 10:57:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 12:33:00 PM 4.7 mg/Kg 1 Surr: BFB 85.5 70-130 %Rec 1 12/8/2021 12:33:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 12/8/2021 12:33:00 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 12/8/2021 12:33:00 PM Ethylbenzene ND 0.047 mg/Kg 1 12/8/2021 12:33:00 PM Xylenes, Total ND 0.094 mg/Kg 1 12/8/2021 12:33:00 PM %Rec Surr: 4-Bromofluorobenzene 76.8 70-130 1 12/8/2021 12:33:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 59 12/9/2021 9:12:58 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 6 of 0

12/10/2021 9:30:51 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF05-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 10:02:00 AM Lab ID: 2112369-007 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 440 50 mg/Kg 5 12/10/2021 11:07:58 PM Motor Oil Range Organics (MRO) 5 420 250 mg/Kg 12/10/2021 11:07:58 PM 70-130 Surr: DNOP 58.6 S %Rec 5 12/10/2021 11:07:58 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 12:53:00 PM 4.7 mg/Kg 1 Surr: BFB 87.8 70-130 %Rec 1 12/8/2021 12:53:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 12/8/2021 12:53:00 PM Benzene ND 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 12/8/2021 12:53:00 PM Ethylbenzene ND 0.047 mg/Kg 1 12/8/2021 12:53:00 PM Xylenes, Total ND 0.093 mg/Kg 1 12/8/2021 12:53:00 PM %Rec Surr: 4-Bromofluorobenzene 77.5 70-130 1 12/8/2021 12:53:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN

ND

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 7 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF06-0' Collection Date: 12/2/2021 10:04:00 AM **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Lab ID: 2112369-008 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 400 44 mg/Kg 5 12/10/2021 11:18:38 PM Motor Oil Range Organics (MRO) 5 310 220 mg/Kg 12/10/2021 11:18:38 PM 70-130 Surr: DNOP 62.6 S %Rec 5 12/10/2021 11:18:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 1:12:00 PM 4.6 mg/Kg 1 Surr: BFB 90.3 70-130 %Rec 1 12/8/2021 1:12:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 12/8/2021 1:12:00 PM Benzene ND 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 12/8/2021 1:12:00 PM Ethylbenzene ND 0.046 mg/Kg 1 12/8/2021 1:12:00 PM Xylenes, Total ND 0.091 mg/Kg 1 12/8/2021 1:12:00 PM %Rec Surr: 4-Bromofluorobenzene 81.4 70-130 1 12/8/2021 1:12:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 59 12/10/2021 9:43:11 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

ND Not Detected at the Reporting Linh

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF07-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 10:07:00 AM Lab ID: 2112369-009 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 72 9.9 mg/Kg 1 12/9/2021 9:45:23 AM Motor Oil Range Organics (MRO) 66 50 mg/Kg 1 12/9/2021 9:45:23 AM Surr: DNOP 77.3 70-130 %Rec 1 12/9/2021 9:45:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 2:11:00 PM 4.6 mg/Kg 1 Surr: BFB 101 70-130 %Rec 1 12/8/2021 2:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 12/8/2021 2:11:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 12/8/2021 2:11:00 PM Ethylbenzene ND 0.046 mg/Kg 1 12/8/2021 2:11:00 PM Xylenes, Total ND 0.092 mg/Kg 1 12/8/2021 2:11:00 PM %Rec Surr: 4-Bromofluorobenzene 81.0 70-130 1 12/8/2021 2:11:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN

ND

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ma/Ka

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 0

12/10/2021 10:20:13 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF08-0' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 10:15:00 AM Lab ID: 2112369-010 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 12/9/2021 12:35:35 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 12/9/2021 12:35:35 PM Surr: DNOP 75.5 70-130 %Rec 1 12/9/2021 12:35:35 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 2:31:00 PM 4.6 mg/Kg 1 Surr: BFB 82.9 70-130 %Rec 1 12/8/2021 2:31:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.023 mg/Kg 12/8/2021 2:31:00 PM 1 Toluene ND 0.046 ma/Ka 1 12/8/2021 2:31:00 PM 1:00 PM

			0 0		
Ethylbenzene	ND	0.046	mg/Kg	1	12/8/2021 2:31:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	12/8/2021 2:31:00 PM
Surr: 4-Bromofluorobenzene	74.6	70-130	%Rec	1	12/8/2021 2:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 10:32:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

Lab ID:

Analyses

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2112369

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF09-0' Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 11:00:00 AM 2112369-011 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 12/9/2021 12:46:12 PM ND 9.3 mg/Kg 1 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 12/9/2021 12:46:12 PM Surr: DNOP 81.5 70-130 %Rec 1 12/9/2021 12:46:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 2:51:00 PM 4.6 mg/Kg 1 Surr: BFB 88.5 70-130 %Rec 1 12/8/2021 2:51:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 0.023 12/8/2021 2:51:00 PM mg/Kg 1

ND

ND

ND

80.7

ND

0.046

0.046

0.093

70-130

60

mg/Kg

mg/Kg

mg/Kg

%Rec

ma/Ka

1

1

1

1

20

12/8/2021 2:51:00 PM

12/8/2021 2:51:00 PM

12/8/2021 2:51:00 PM

12/8/2021 2:51:00 PM

12/10/2021 10:44:54 PM

Analyst: LRN

		1 1 1 11 . C	d 1001	1
Refer to the OC Summar	v report and sample	login checklist for	r flagged OC dat	a and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Analyzed

Analyst: SB

12/9/2021 1:07:30 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Marathon Oil CompanyClient Sample IDProject:Chili Parlor 17 Fed 2H 11 08 21 SpillCollection DateLab ID:2112371-001Matrix: SOILReceived DateAnalysesResultPQL Qual UnitsEPA METHOD 8015M/D: DIESEL RANGE ORGANICSDiesel Range Organics (DRO)87Diesel Range Organics (DRO)6346mg/KgSurr: DNOP76.370-130%RecEPA METHOD 8015D: GASOLINE RANGEGasoline Range Organics (GRO)ND4.8Gasoline Range Organics (GRO)ND4.8mg/KgSurr: BFB92.670-130%RecEPA METHOD 8021B: VOLATILESND0.024mg/Kg

Client Sample ID: CONF01-0.5' Collection Date: 12/2/2021 12:18:00 PM Received Date: 12/7/2021 8:20:00 AM

DF

1

Motor Oil Range Organics (MRO)	63	46	mg/Kg	1	12/9/2021 1:07:30 PM
Surr: DNOP	76.3	70-130	%Rec	1	12/9/2021 1:07:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/8/2021 3:10:00 PM
Surr: BFB	92.6	70-130	%Rec	1	12/8/2021 3:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	12/8/2021 3:10:00 PM
Toluene	ND	0.048	mg/Kg	1	12/8/2021 3:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/8/2021 3:10:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/8/2021 3:10:00 PM
Surr: 4-Bromofluorobenzene	82.4	70-130	%Rec	1	12/8/2021 3:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 10:57:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF02-0.5' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 12:24:00 PM Lab ID: 2112371-002 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 130 9.7 mg/Kg 1 12/9/2021 1:18:12 PM Motor Oil Range Organics (MRO) 110 48 mg/Kg 1 12/9/2021 1:18:12 PM Surr: DNOP 80.8 70-130 %Rec 1 12/9/2021 1:18:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 3:30:00 PM 4.8 mg/Kg 1 Surr: BFB 93.2 70-130 %Rec 1 12/8/2021 3:30:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 mg/Kg 12/8/2021 3:30:00 PM 1 Toluene ND 0.048 mg/Kg 1 12/8/2021 3:30:00 PM Ethylbenzene ND 0.048 mg/Kg 1 12/8/2021 3:30:00 PM Xylenes, Total ND 0.096 mg/Kg 1 12/8/2021 3:30:00 PM Surr: 4-Bromofluorobenzene 79.6 70-130 %Rec 1 12/8/2021 3:30:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 61 12/10/2021 11:09:35 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 0

Analyst: SB

Analyst: RAA

Analyst: RAA

Analyst: LRN

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF03-0.5' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 12:31:00 PM Lab ID: 2112371-003 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 130 9.8 mg/Kg 1 12/9/2021 1:28:57 PM Motor Oil Range Organics (MRO) 100 49 mg/Kg 1 12/9/2021 1:28:57 PM Surr: DNOP 85.5 70-130 %Rec 1 12/9/2021 1:28:57 PM **EPA METHOD 8015D: GASOLINE RANGE** Gasoline Range Organics (GRO) ND 12/8/2021 3:50:00 PM 4.9 mg/Kg 1 Surr: BFB 86.2 70-130 %Rec 1 12/8/2021 3:50:00 PM **EPA METHOD 8021B: VOLATILES** Benzene ND 0.024 mg/Kg 12/8/2021 3:50:00 PM 1 Toluene ND 0.049 mg/Kg 1 12/8/2021 3:50:00 PM Ethylbenzene ND 0.049 mg/Kg 1 12/8/2021 3:50:00 PM Xylenes, Total ND 0.097 mg/Kg 1 12/8/2021 3:50:00 PM Surr: 4-Bromofluorobenzene 78.2 70-130 %Rec 1 12/8/2021 3:50:00 PM **EPA METHOD 300.0: ANIONS** Chloride ND 60 12/10/2021 11:21:57 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil CompanyProject:Chili Parlor 17 Fed 2H 11 08 21 SpillLab ID:2112371-004Matrix: SOILAnalysesResult

Client Sample ID: CONF04-0.5' Collection Date: 12/2/2021 12:41:00 PM Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: SB
Diesel Range Organics (DRO)	540	98		mg/Kg	10	12/9/2021 1:39:43 PM
Motor Oil Range Organics (MRO)	560	490		mg/Kg	10	12/9/2021 1:39:43 PM
Surr: DNOP	0	70-130	S	%Rec	10	12/9/2021 1:39:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/8/2021 4:09:00 PM
Surr: BFB	91.4	70-130		%Rec	1	12/8/2021 4:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/8/2021 4:09:00 PM
Toluene	ND	0.046		mg/Kg	1	12/8/2021 4:09:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/8/2021 4:09:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/8/2021 4:09:00 PM
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	12/8/2021 4:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 11:34:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF05-0.5' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 12:48:00 PM Lab ID: 2112371-005 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 570 50 mg/Kg 5 12/14/2021 2:53:43 PM Motor Oil Range Organics (MRO) 5 400 250 mg/Kg 12/14/2021 2:53:43 PM Surr: DNOP 70-130 %Rec 5 12/14/2021 2:53:43 PM 119 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/8/2021 4:29:00 PM 4.6 mg/Kg 1 Surr: BFB 87.0 70-130 %Rec 1 12/8/2021 4:29:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.023 mg/Kg 12/8/2021 4:29:00 PM 1 Toluene ND 0.046 mg/Kg 1 12/8/2021 4:29:00 PM Ethylbenzene ND 0.046 mg/Kg 1 12/8/2021 4:29:00 PM Xylenes, Total ND 0.092 mg/Kg 1 12/8/2021 4:29:00 PM Surr: 4-Bromofluorobenzene 76.9 70-130 %Rec 1 12/8/2021 4:29:00 PM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 12/10/2021 11:46:39 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF06-0.5' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 12:53:00 PM Lab ID: 2112371-006 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 440 49 mg/Kg 5 12/14/2021 3:17:31 PM Motor Oil Range Organics (MRO) 5 240 240 mg/Kg 12/14/2021 3:17:31 PM Surr: DNOP 70-130 %Rec 5 12/14/2021 3:17:31 PM 118 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/9/2021 2:19:00 AM 5.0 mg/Kg 1 Surr: BFB 97.1 70-130 %Rec 1 12/9/2021 2:19:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 mg/Kg 12/9/2021 2:19:00 AM 1 Toluene ND 0.050 mg/Kg 1 12/9/2021 2:19:00 AM Ethylbenzene ND 0.050 mg/Kg 1 12/9/2021 2:19:00 AM Xylenes, Total ND 0.099 mg/Kg 1 12/9/2021 2:19:00 AM Surr: 4-Bromofluorobenzene 87.8 70-130 %Rec 1 12/9/2021 2:19:00 AM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 12/10/2021 11:58:59 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

Lab ID:

Analytical Report Lab Order 2112371

12/9/2021 2:39:00 AM

12/11/2021 12:11:20 AM

Analyst: LRN

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF07-0.5' Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 12:56:00 PM 2112371-007 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM . -----~

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	42	9.9	mg/Kg	1	12/9/2021 2:12:08 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/9/2021 2:12:08 PM
Surr: DNOP	80.9	70-130	%Rec	1	12/9/2021 2:12:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2021 2:39:00 AM
Surr: BFB	96.1	70-130	%Rec	1	12/9/2021 2:39:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	12/9/2021 2:39:00 AM
Toluene	ND	0.049	mg/Kg	1	12/9/2021 2:39:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2021 2:39:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/9/2021 2:39:00 AM

70-130

60

%Rec

mg/Kg

1

20

84.8

ND

EPA METHOD 300.0: ANIONS Chloride

Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2112371

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF08-0.5' Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 1:00:00 PM 2112371-008 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 12/9/2021 2:22:58 PM 9.7 9.3 mg/Kg 1 Motor Oil Range Organics (MRO) 12/9/2021 2:22:58 PM ND 46 mg/Kg 1 88.9 70-130 %Rec 1 12/9/2021 2:22:58 PM

			,		
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/9/2021 2:59:00 AM
Surr: BFB	93.8	70-130	%Rec	1	12/9/2021 2:59:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	12/9/2021 2:59:00 AM
Toluene	ND	0.050	mg/Kg	1	12/9/2021 2:59:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/9/2021 2:59:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	12/9/2021 2:59:00 AM
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	12/9/2021 2:59:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	12/13/2021 10:32:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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12/13/2021 11:09:41 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Marathon Oil Company Client Sample ID: CONF09-0.5' **Project:** Chili Parlor 17 Fed 2H 11 08 21 Spill Collection Date: 12/2/2021 1:05:00 PM Lab ID: 2112371-009 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM Result **PQL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 12/9/2021 2:33:50 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 12/9/2021 2:33:50 PM Surr: DNOP 84.9 70-130 %Rec 1 12/9/2021 2:33:50 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/9/2021 3:19:00 AM 5.0 mg/Kg 1 Surr: BFB 87.7 70-130 %Rec 1 12/9/2021 3:19:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 mg/Kg 12/9/2021 3:19:00 AM 1 Toluene ND 0.050 mg/Kg 1 12/9/2021 3:19:00 AM Ethylbenzene ND 0.050 mg/Kg 1 12/9/2021 3:19:00 AM Xylenes, Total ND 0.099 mg/Kg 1 12/9/2021 3:19:00 AM Surr: 4-Bromofluorobenzene 81.0 70-130 %Rec 1 12/9/2021 3:19:00 AM **EPA METHOD 300.0: ANIONS** Analyst: CAS

ND

61

ma/Ka

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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ATTACHMENT F

48-Hour Confirmation Sample Notification Email





Shar Harvester <shar.harvester@wescominc.com>

48-Hour Confirmation Sample Notice - nAPP2131330323

1 message

Ashley Giovengo <ashley.giovengo@wescominc.com> Tue, Nov 30, 2021 at 8:51 AM To: "Venegas, Victoria, EMNRD" <Victoria.venegas@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, rmann@slo.state.nm.us

Cc: Shar Harvester <shar.harvester@wescominc.com>, Cole Burton <cole.burton@wescominc.com>, "Sanjari, Melodie (MRO)" <msanjari@marathonoil.com>

Hello All,

We intend to take confirmation samples at the Chili Parlor 17 Federal #002H - nAPP2131330323 starting on (12/02).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	89604
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
chensley	Closure approved.	4/5/2022

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Action 89604