

SITE INFORMATION

Report Type: Closure Report nAPP2209754122

General Site Information:

Site:	Holyfield Lay Flat Line				
Company:	EOG Resources				
Section, Township and Range	Unit B	Sec. 32	T 24S	R 34E	
Lease Number:					
County:	Lea County				
GPS:	32.181089°			-103.487924°	
Surface Owner:	State				
Mineral Owner:					
Directions:	From the intersection of nm-128 & cr-21, head West on NM-128 for 1.38 miles. Turn left (south) on lease road, follow for 2.26 miles. Turn left (East) on lease road and follow for 1.90 miles to location.				

Release Data:

Date Released:	4/3/2022
Type Release:	Produced Water
Source of Contamination:	Punctured Lay Flat line
Fluid Released:	33 bbl water
Fluids Recovered:	0 bbl water

Official Communication:

Name:	Todd Wells		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr.		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79706		Midland, Texas, 79701
Phone number:	(432) 686-3613		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	30' Below Ground Surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

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



October 21, 2022

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

**RE: Closure Report
EOG Resources
Holyfield Lay Flat Line
Lea County, New Mexico
nAPP2209754122**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release that occurred at the Holyfield Lay Flat Line, Unit B, Section 32, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are 32.181089°, -103.487924°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Holyfield Lay Flat Line was caused by a truck striking and puncturing the Holyfield Lay Flat Line causing the release of 33 bbls of produced water, the release was contained to the south portion of the lease road, impacting an area of 760' X 10'. However, none of fluids were recovered. On April 3, 2022, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no lakebeds, sinkholes, playa lakes, springs, wetlands, subsurfaces mines, private domestic water wells, or floodplains located within the specified distances. However, there is a USGS blue line located approximately 90' from the release. Additionally, the site is located in a low karst area. The NFHL Map and USGS Mapper are shown in **Appendix B**.



Significant Boundaries

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

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water wells within a 2 ½ mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 60 ft bgs with water level measured at 30 ft bgs and is approximately 1.99 miles of the Site. The well reported on the USGS National Water Information System reports a total depth of 257 ft bgs and measured water level of 223.94 ft bgs and is approximately 2.56 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.99 Miles	6/30/1912	NMOSE	60'	30'
2.56 Miles	1/16/2013	USGS	257'	223.94'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 600 mg/kg.

Site Assessment Activities

Tetra Tech conducted site assessment activities on July 18, 2022. To attempt to assess and vertically delineate the release area, a total of six (6) auger holes (AH-1 through AH-6) were installed to shallow total depths of 0.5 ft bgs, due to dense formation in the area. Additionally, a total of six (6) horizontals (H-1 through H-6) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method



4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, auger holes (AH-1 and AH-2) indicated chloride concentrations above RRALs, with concentrations of 1,890 mg/kg and 1,010 mg/kg, at depths of 0.5 ft bgs, respectively. Auger holes (AH-3 through AH-6) did not indicate chloride concentrations above RRALs. Additionally, all auger holes (AH-1 through AH-6) indicated benzene, BTEX, and TPH concentrations below RRALs. Horizontals (H-1 through H-6) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRALs.

Remediation Activities

Tetra Tech supervised the remediation activities on October 3 and October 6, 2022. The areas of impact were remediated to a depth of 1.5 ft bgs. The excavated areas and depths are shown on **Figure 4A and 4B**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of full depth of sidewalls and the entire floor of the excavation are collected. The confirmation sample notification was sent to the NMOCD via email, on September 29, 2022, at 10:04 AM, a copy of the notice is shown in **Appendix D**. A total of seven (7) bottom holes (BH-1 through BH-7) were collected and a total of four (4) sidewalls (SW-1 through SW-4) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.

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

Conclusions

Based on the C-141 (nAPP2209754122) and information provided by EOG, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed for soil beyond the top 4.0 ft of soil. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations in auger holes (AH-1 and AH-2) exceeded RRALs and required remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 168 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to



surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the this Site requires no further action. The final C-141 is included in **Appendix A**.

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

Respectfully submitted,
TETRA TECH

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

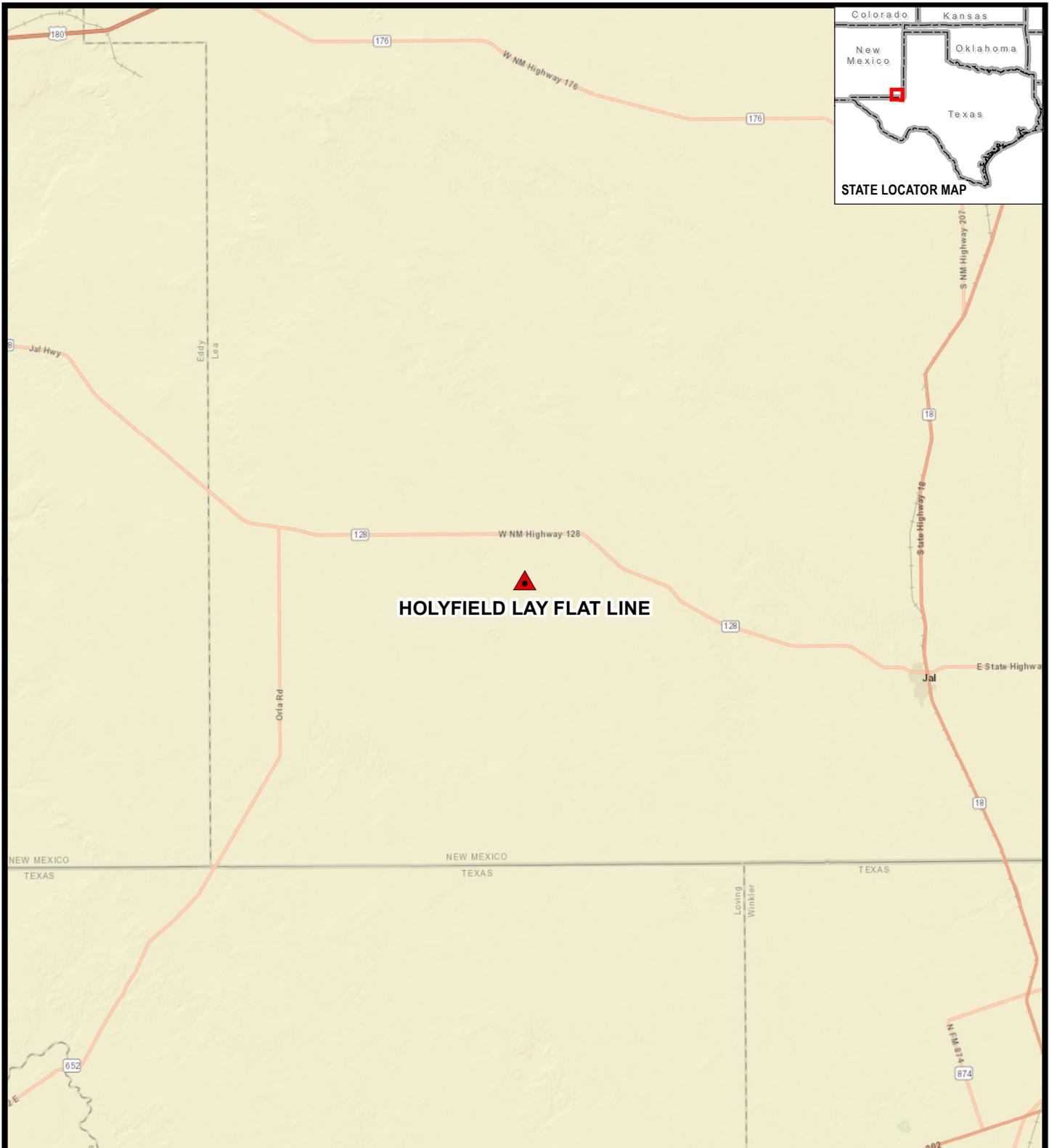
Brittany Long,
Project Manager

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

Clair Gonzales, P.G.
Senior Project Manager

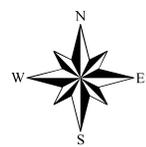


Figures



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 SITE LOCATION



0 2.5 5 Miles
Approximate Scale in Miles

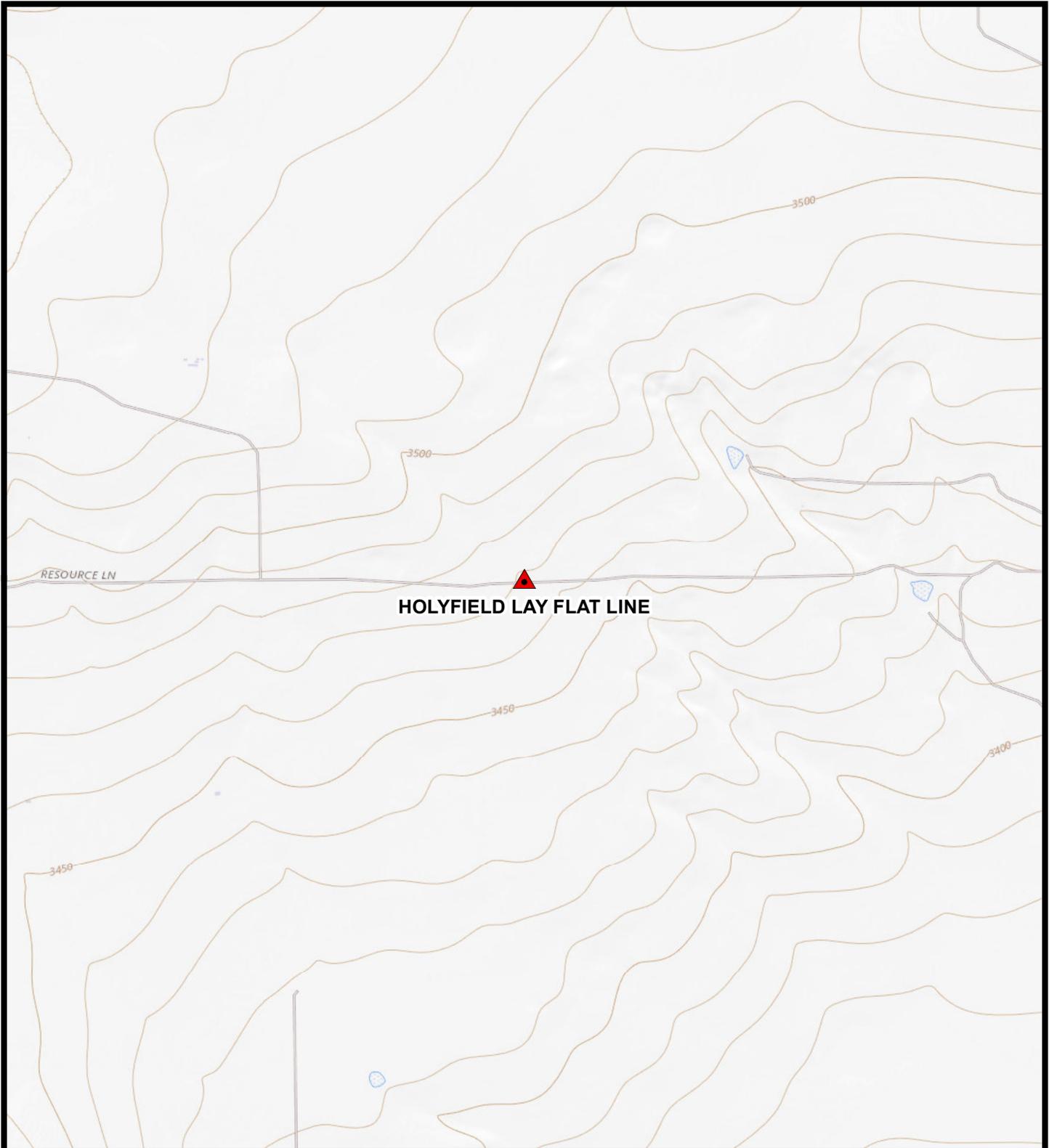
OVERVIEW MAP
HOLYFIELD LAY FLAT LINE
 Property Located at coordinates 32.181101, -103.487678°
 LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02801

FIGURE
1

Source: ESRI Basemap - Streets, 2022.



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 SITE LOCATION



0 1,000 2,000
Feet
Approximate Scale in Feet

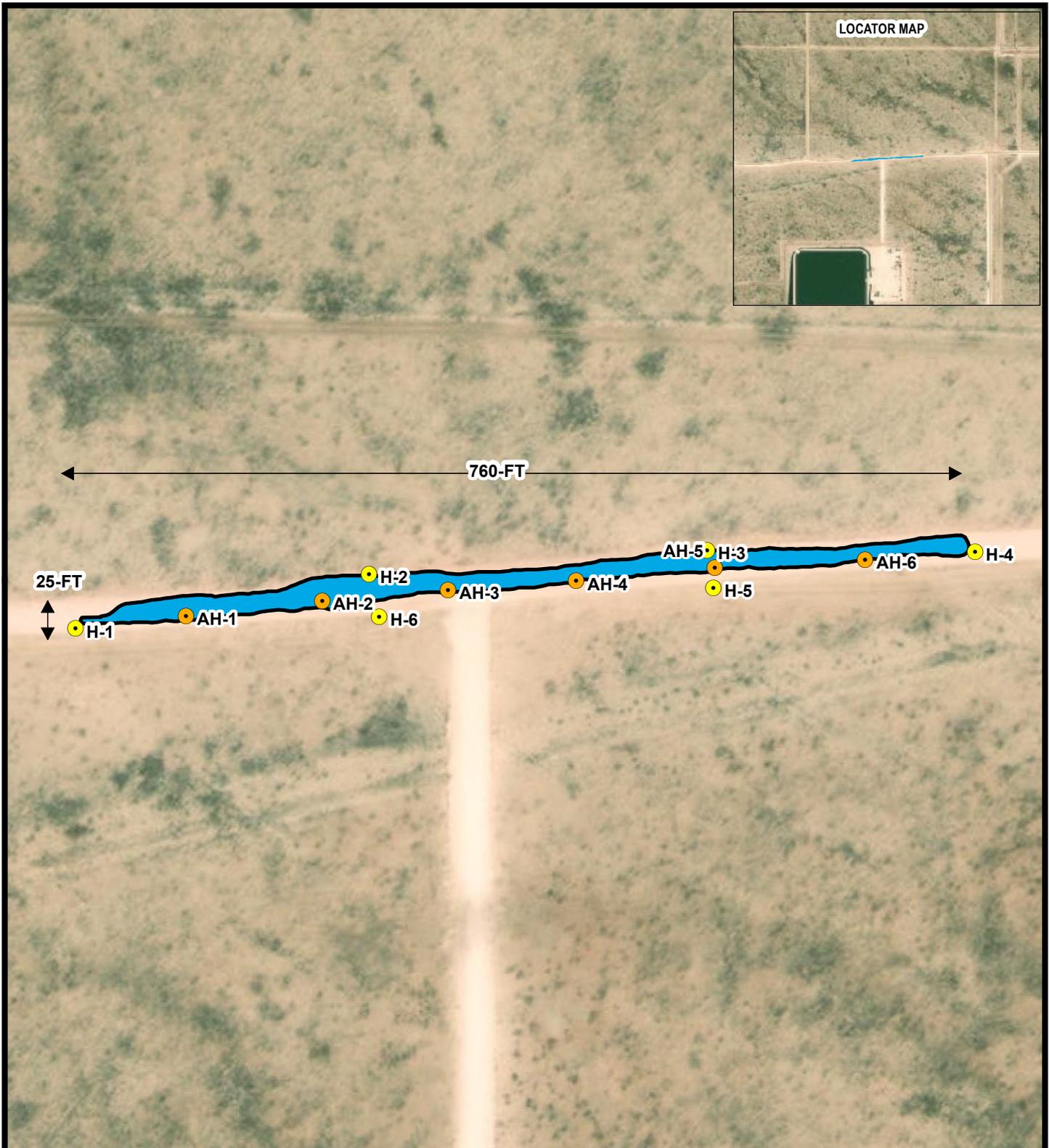
TOPOGRAPHIC MAP
HOLYFIELD LAY FLAT LINE
Property Located at coordinates 32.181101, -103.487678°
LEA COUNTY, NEW MEXICO

Source: USGS, The National Map,
Topo Base, 2022.



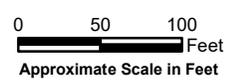
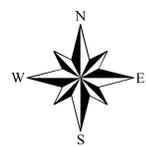
Project #:
212C-MD-02801

FIGURE
2



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- AUGER HOLE SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- SPILL FOOTPRINT



SITE ASSESSMENT MAP
HOLYFIELD LAY FLAT LINE
 Property Located at coordinates 32.181101, -103.487678°
 LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02801

FIGURE
3

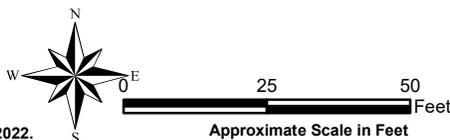
Source: ESRI Basemap - Imagery, 2022.



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- BH** BOTTOM HOLE SAMPLE LOCATION
- SIDEWALL DESIGNATION
- 1.5' EXCAVATION DEPTH

REMEDATION DEPTH AND SAMPLE MAP
 HOLYFIELD LAY FLAT LINE
 Property Located at coordinates 32.181101, -103.487678°
 LEA COUNTY, NEW MEXICO

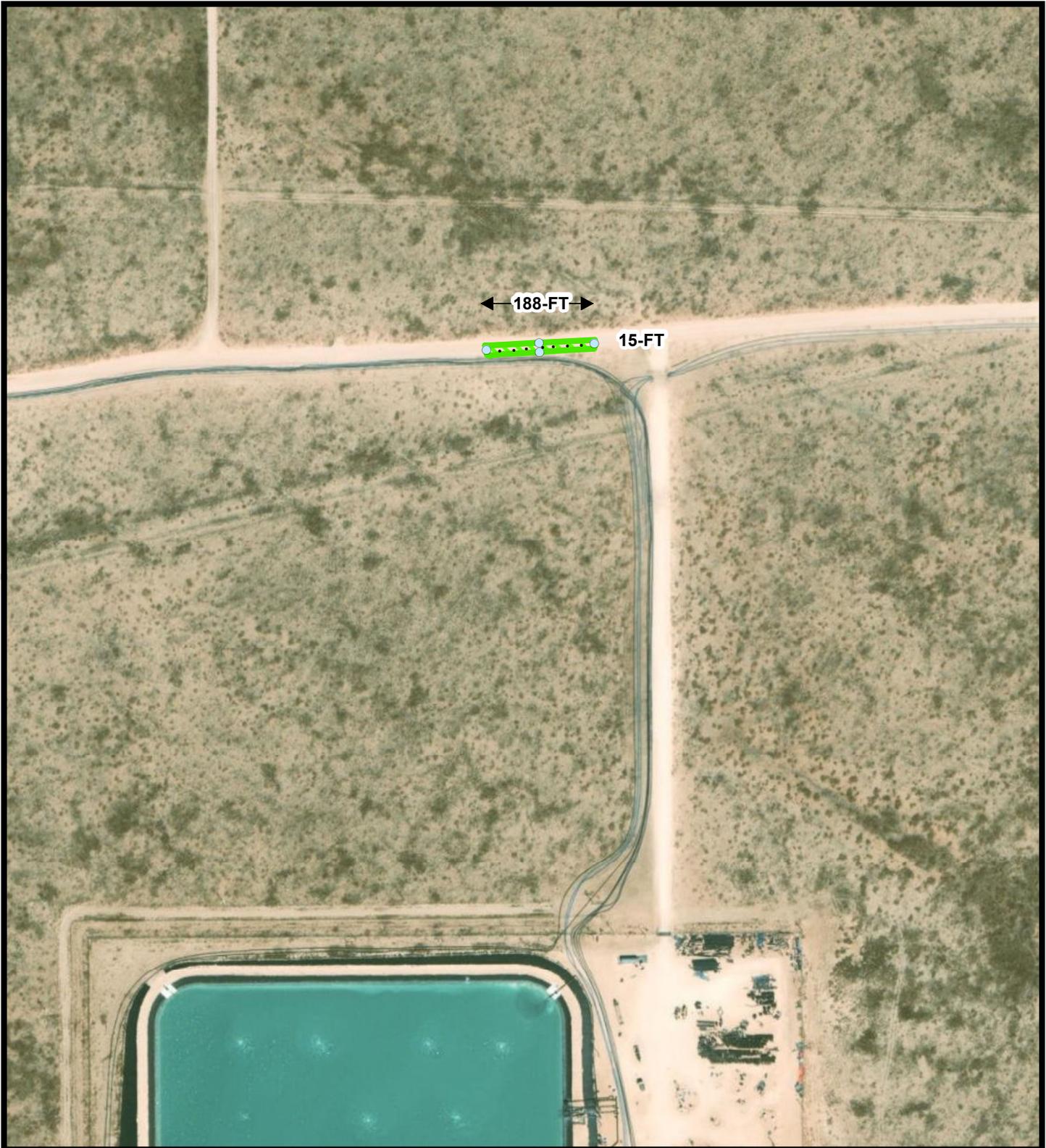


Source: ESRI Basemap - Imagery, 2022.



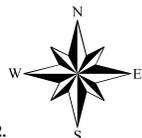
Project #:
212C-MD-02801

FIGURE
4A



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- BH** BOTTOM HOLE SAMPLE LOCATION
- SIDEWALL DESIGNATION
- 1.5' EXCAVATION DEPTH



0 100 200
Feet
Approximate Scale in Feet

REMEDATION DEPTH AND SAMPLE MAP
HOLYFIELD LAY FLAT LINE
Property Located at coordinates 32.181101, -103.487678°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02801

FIGURE
4B

Source: ESRI Basemap - Imagery, 2022.



Tables

Table 1
EOG Resources
Holyfield Layflat Line
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs														
									100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg
AH-1	7/18/2022	0-0.5'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,890
AH-2	7/18/2022	0-0.5'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
AH-3	7/18/2022	0-0.5'	X	-	<10.0	23.7	<10.0	23.7	<0.050	<0.050	<0.050	<0.150	<0.300	256
AH-4	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
AH-5	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592
AH-6	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-1	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-2	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-3	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-4	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-5	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-6	7/18/2022	0-0.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedances

Table 2
EOG Resources
Holyfield Layflat Line
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs														
									100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg
BH-1	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BH-2	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
BH-3	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
BH-4	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
BH-5	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
BH-6	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
BH-7	10/3/2022	1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
SW-1	10/3/2022	0-1.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	928
	10/6/2022	0-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-2	10/3/2022	0-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-3	10/3/2022	0-1.5	X	-	<10.0	33	<10.0	33	<0.050	<0.050	<0.050	<0.150	<0.300	432
SW-4	10/3/2022	0-1.5	-	X	<10.0	17.5	<10.0	17.5	<0.050	<0.050	<0.050	<0.150	<0.300	672
	10/6/2022	0-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devisiion) *Guidelines for Remediation of Leaks, Spills, and Releases*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedances



Photographic Documentation

EOG Resources
Holyfield Lay Flat Line
Lea County, New Mexico



TETRA TECH



View of Remediation Activities – View West



View of Remediation Activities – View East



Appendix A

C-141 Document

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2209754122
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2209754122
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.181089° Longitude -103.487924°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Holyfield Lay Flat Line	Site Type Reuse Water Line
Date Release Discovered 4/3/22	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	32	24S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Reuse Water	Volume Released (bbls) 33	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: During the night, a truck struck and punctured a hole in the Holyfield Lay Flat Line along the side of Resource Lane. The resulting hole in the lay flat line released 33 bbls of reuse water that ran down Resource Lane with 0 bbls recovered.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification to the OCD Enviro Inbox on 4/4/22.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>4/7/22</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 10/25/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 10/25/2022

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

Closure Approved by: Jennifer Nobui Date: 11/18/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



Appendix B

Site Characterization Documents



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02309	2	2	2	25	24S	33E	639708	3562997 

Driller License:		Driller Company:	
Driller Name:	UNKNOWN		
Drill Start Date:	01/01/1912	Drill Finish Date:	06/30/1912
Log File Date:		PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	7.00	Depth Well:	60 feet
		Plug Date:	
		Source:	
		Estimated Yield:	40 GPM
		Depth Water:	30 feet

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

10/17/22 11:00 PM

POINT OF DIVERSION SUMMARY



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Data Category: Groundwater Geographic Area: New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =
 • 321025103263601

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

USGS 321025103263601 24S.34E.35.12411

Lea County, New Mexico
 Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83
 Land-surface elevation 3,409.00 feet above NGVD29
 The depth of the well is 257 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source
1953-03-29			D 62610		3185.10	NGVD29	1	Z		
1953-03-29			D 62611		3186.69	NAVD88	1	Z		
1953-03-29			D 72019	223.90			1	Z		
1971-01-13			D 62610		3190.96	NGVD29	1	Z		
1971-01-13			D 62611		3192.55	NAVD88	1	Z		
1971-01-13			D 72019	218.04			1	Z		
1976-01-15			D 62610		3189.94	NGVD29	1	Z		
1976-01-15			D 62611		3191.53	NAVD88	1	Z		
1976-01-15			D 72019	219.06			1	Z		
1981-03-20			D 62610		3191.29	NGVD29	1	Z		
1981-03-20			D 62611		3192.88	NAVD88	1	Z		
1981-03-20			D 72019	217.71			1	Z		

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement
1986-03-06		D	62610		3185.50	NGVD29	1	Z		
1986-03-06		D	62611		3187.09	NAVD88	1	Z		
1986-03-06		D	72019	223.50			1	Z		
1991-05-31		D	62610		3189.82	NGVD29	1	Z		
1991-05-31		D	62611		3191.41	NAVD88	1	Z		
1991-05-31		D	72019	219.18			1	Z		
1996-03-14		D	62610		3189.81	NGVD29	1	S		
1996-03-14		D	62611		3191.40	NAVD88	1	S		
1996-03-14		D	72019	219.19			1	S		
2013-01-16	22:00 UTC	m	62610		3185.06	NGVD29	1	S	USGS	
2013-01-16	22:00 UTC	m	62611		3186.65	NAVD88	1	S	USGS	
2013-01-16	22:00 UTC	m	72019	223.94			1	S	USGS	

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

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Page Last Modified: 2022-10-18 01:05:23 EDT

0.31 0.27 nadww01



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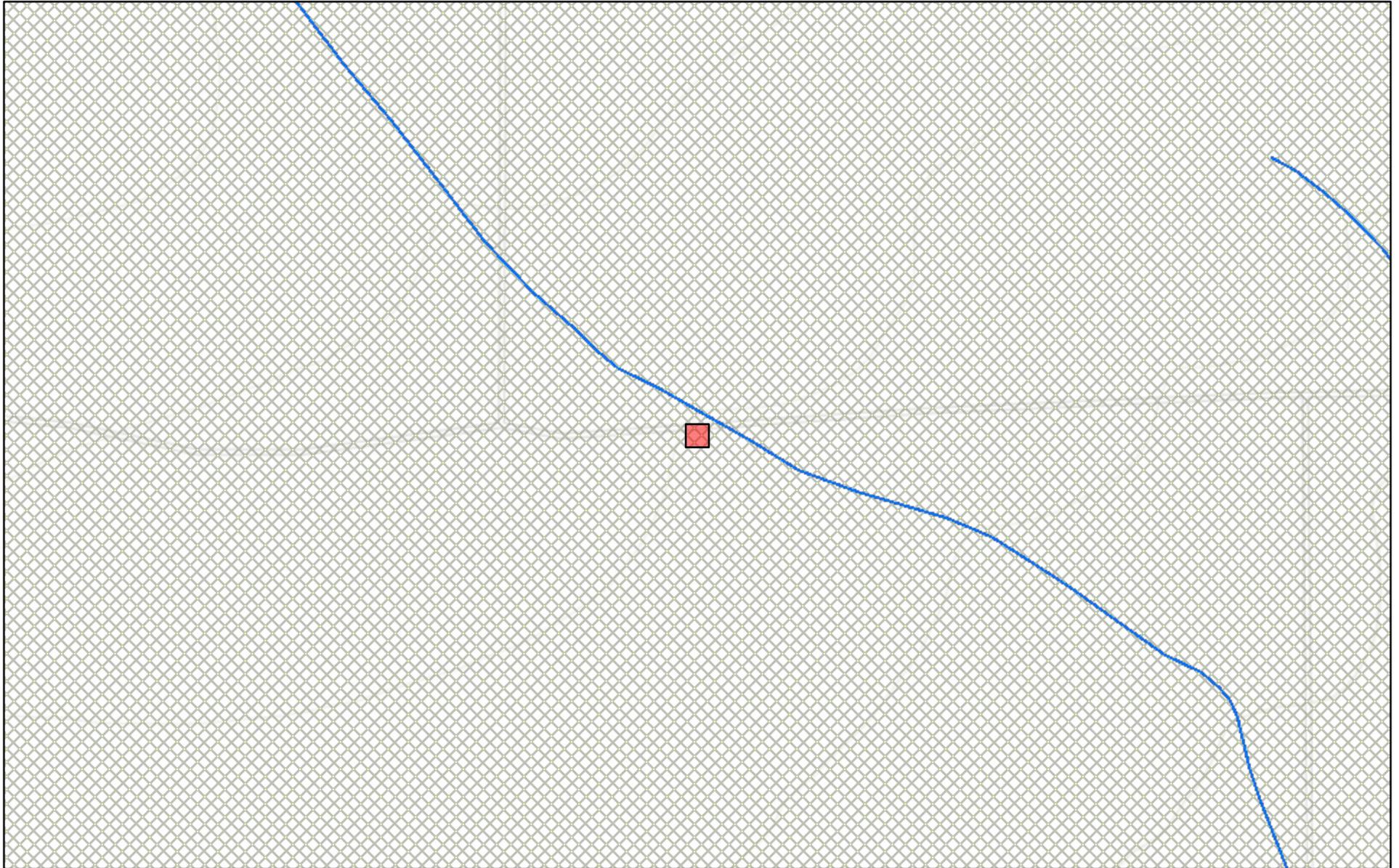
National Water Information System: Mapper

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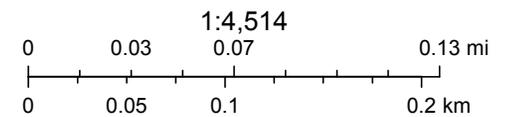


Site Information

New Mexico NFHL Data



October 17, 2022



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

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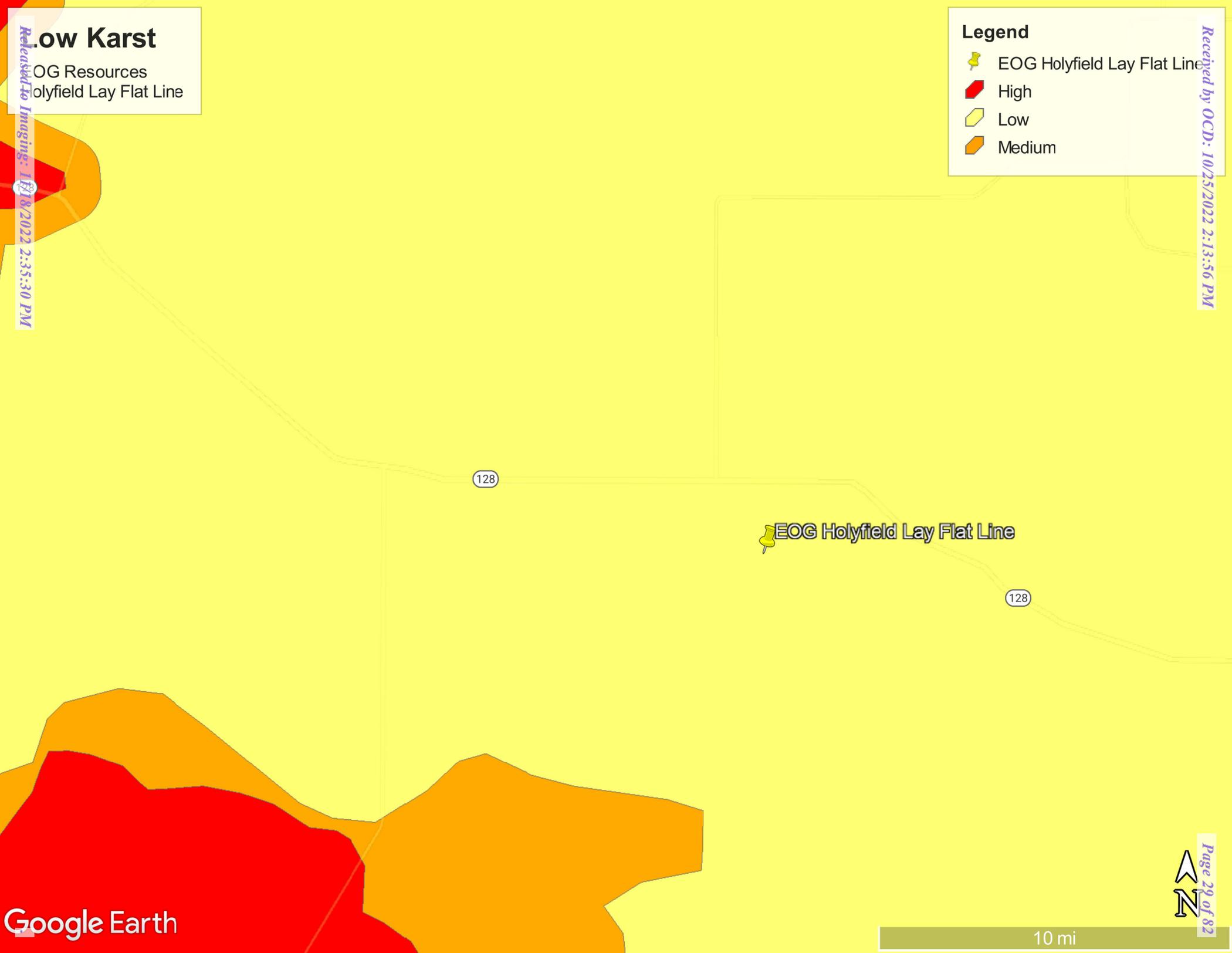
Low Karst
OG Resources
Holyfield Lay Flat Line

Legend

-  EOG Holyfield Lay Flat Line
-  High
-  Low
-  Medium

Received by OCD: 10/25/2022 2:13:56 PM

Released to Imaging: 10/18/2022 2:35:30 PM



EOG Holyfield Lay Flat Line

128

128



Appendix C

Laboratory Reports



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

July 22, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EOG HOLYFIELD LAYFLAT LINE SITE ASSESSMENT

Enclosed are the results of analyses for samples received by the laboratory on 07/18/22 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 1 (0-6") (H223122-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.06	103	2.00	8.01	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	9.82	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.18	109	2.00	9.66	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.81	114	6.00	9.78	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1890	16.0	07/20/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	181	90.6	200	5.23	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	178	88.9	200	0.00282	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 103 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 2 (0-6") (H223122-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.06	103	2.00	8.01	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	9.82	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.18	109	2.00	9.66	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.81	114	6.00	9.78	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	181	90.6	200	5.23	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	178	88.9	200	0.00282	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 3 (0-6") (H223122-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	181	90.6	200	5.23	
DRO >C10-C28*	23.7	10.0	07/20/2022	ND	178	88.9	200	0.00282	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 43-149

Surrogate: 1-Chlorooctadecane 86.4 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 4 (0-6") (H223122-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 61.5 % 43-149

Surrogate: 1-Chlorooctadecane 64.3 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 5 (0-6") (H223122-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 60.9 % 43-149

Surrogate: 1-Chlorooctadecane 65.8 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 6 (0-6") (H223122-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 57.8 % 43-149

Surrogate: 1-Chlorooctadecane 61.2 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 1 (0-6") (H223122-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 57.2 % 43-149

Surrogate: 1-Chlorooctadecane 61.7 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 2 (0-6") (H223122-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 43-149

Surrogate: 1-Chlorooctadecane 85.5 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 3 (0-6") (H223122-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 54.7 % 43-149

Surrogate: 1-Chlorooctadecane 60.0 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 4 (0-6") (H223122-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 55.7 % 43-149

Surrogate: 1-Chlorooctadecane 60.4 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 5 (0-6") (H223122-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 54.5 % 43-149

Surrogate: 1-Chlorooctadecane 58.9 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: H - 6 (0-6") (H223122-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	1.99	99.4	2.00	0.242	
Toluene*	<0.050	0.050	07/21/2022	ND	2.28	114	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	0.0611	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.79	113	6.00	0.408	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.4	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	203	101	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 58.5 % 43-149

Surrogate: 1-Chlorooctadecane 63.5 % 42.5-161

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **EOG**

Site Manager: **Brittany Long**

Project Name:

Contact Info:

EOG Holyfield Layflat Line Site Assessment

Brittany Long @ Tetratech.com

Project Location: **Lea County, NM**

Project #:

212C-MD-02801

Invoice to:

~~EOG~~ **Cardinal Lab**

Receiving Laboratory:

Cardinal Lab

Sampler Signature:

Gabriel Huerta

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
H223122	1 AH-1 (0-6")	7-18-22	2:00	✓	✓	✓	✓	1	✓
	2 AH-2 (0-6")	7-18-22	2:10	✓	✓	✓	✓	1	✓
	3 AH-3 (0-6")	7-18-22	2:20	✓	✓	✓	✓	1	✓
	4 AH-4 (0-6")	7-18-22	2:30	✓	✓	✓	✓	1	✓
	5 AH-5 (0-6")	7-18-22	2:40	✓	✓	✓	✓	1	✓
	6 AH-6 (0-6")	7-18-22	2:45	✓	✓	✓	✓	1	✓
	7 H-1 (0-6")	7-18-22	2:50	✓	✓	✓	✓	1	✓
	8 H-2 (0-6")	7-18-22	2:55	✓	✓	✓	✓	1	✓
	9 H-3 (0-6")	7-18-22	3:00	✓	✓	✓	✓	1	✓
	10 H-4 (0-6")	7-18-22	3:05	✓	✓	✓	✓	1	✓

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8021B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)
<input type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082 / 608
<input type="checkbox"/>	NORM
<input type="checkbox"/>	PLM (Asbestos)
<input type="checkbox"/>	Chloride 300.0
<input type="checkbox"/>	Chloride Sulfate TDS
<input type="checkbox"/>	General Water Chemistry (see attached list)
<input type="checkbox"/>	Anion/Cation Balance
<input type="checkbox"/>	Asbestos
<input type="checkbox"/>	Hold

Relinquished by: Gabriel Huerta	Date: 7-18-22	Time: 1640	Received by: Brittany Long	Date: 7-18-22	Time: 1445
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **6.6°C**

LAB USE ONLY: **6.6°C**

LAB USE ONLY: **#11372**

Standard

ORIGINAL COPY



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

October 05, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EOG HOLYFIELD LAYFLAT LINE SITE ASSESSMENT

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 13:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 1 (H224613-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 2 (H224613-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 63.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 3 (H224613-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	33.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 4 (H224613-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	17.5	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 1 (1.5') (H224613-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 48.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 55.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 2 (1.5') (H224613-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 57.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 66.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 3 (1.5') (H224613-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 4 (1.5') (H224613-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 64.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.0 % 46.3-178

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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 5 (1.5') (H224613-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 50.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 58.7 % 46.3-178

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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 6 (1.5') (H224613-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 58.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 7 (1.5') (H224613-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65		
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.3 % 46.3-178

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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 1 (0-1') (H224613-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65		
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	10/05/2022	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 69.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 1 (1-2') (H224613-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 66.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.4 % 46.3-178

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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 1 (2-3') (H224613-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 73.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 1 (3-4') (H224613-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65		
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 73.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 2 (0-1') (H224613-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2022	ND	2.30	115	2.00	1.65	
Toluene*	<0.050	0.050	10/05/2022	ND	2.19	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.05	103	2.00	0.843	
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.22	104	6.00	0.157	
Total BTEX	<0.300	0.300	10/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 62.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 2 (1-2') (H224613-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.31	115	2.00	2.92		
Toluene*	<0.050	0.050	10/05/2022	ND	2.20	110	2.00	3.18		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.06	103	2.00	3.13		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.21	103	6.00	3.06		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	198	99.0	200	3.72		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	183	91.6	200	3.44		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 74.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 2 (2-3') (H224613-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.31	115	2.00	2.92		
Toluene*	<0.050	0.050	10/05/2022	ND	2.20	110	2.00	3.18		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.06	103	2.00	3.13		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.21	103	6.00	3.06		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	211	106	200	3.93		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	205	103	200	9.11		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 68.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/04/2022	Sampling Date:	10/03/2022
Reported:	10/05/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT LINE SITE AS:	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: T - 2 (3-4') (H224613-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2022	ND	2.31	115	2.00	2.92		
Toluene*	<0.050	0.050	10/05/2022	ND	2.20	110	2.00	3.18		
Ethylbenzene*	<0.050	0.050	10/05/2022	ND	2.06	103	2.00	3.13		
Total Xylenes*	<0.150	0.150	10/05/2022	ND	6.21	103	6.00	3.06		
Total BTEX	<0.300	0.300	10/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	211	106	200	3.93		
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	205	103	200	9.11		
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND						

Surrogate: 1-Chlorooctane 67.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Tetra Tech, Inc.



901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **EOG** Site Manager: **Brittany Long**
Project Name: **EOG Holyfield Layflat Release** Contact Info: Brittany.Long@tetratech.com

Project Location: **Lea County, NM** Project #: **212C-MD-02801**
In-office to: **EOG Attention Todd Wells**

Receiving Laboratory: **Cardinal Laboratories** Sampler Signature: **Gabe Huerta**
Comments:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
1	SW-1	10/3/2022	12:15	X	X	X	X	X	X		
2	SW-2	10/3/2022	12:30	X	X	X	X	X	X		
3	SW-3	10/3/2022	12:45	X	X	X	X	X	X		
4	SW-4	10/3/2022	1:00	X	X	X	X	X	X		
5	BH-1 (1.5')	10/3/2022	1:15	X	X	X	X	X	X		
6	BH-2 (1.5')	10/3/2022	1:30	X	X	X	X	X	X		
7	BH-3 (1.5')	10/3/2022	1:45	X	X	X	X	X	X		
8	BH-4 (1.5')	10/3/2022	2:00	X	X	X	X	X	X		
9	BH-5 (1.5')	10/3/2022	2:15	X	X	X	X	X	X		
10	BH-6 (1.5')	10/3/2022	2:30	X	X	X	X	X	X		
11	BH-7 (1.5')	10/3/2022	2:45	X	X	X	X	X	X		
	GH Duplicate SW-1	10/3/2022	12:15	X	X	X	X	X	X		
	GH Duplicate SW-2	10/3/2022	12:30	X	X	X	X	X	X		

Inquired by: **Gabe Huerta** Date: **10-4-22** Time: **1308**
Received by: **Brittany Long** Date: **10-4-22** Time: **1312**

Inquired by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride 300.0
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Asbestos
<input type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature: **4.8°C**
RUSH: Same Day 24 hr 48 hr 72 hr

REMARKS:
 Rush Charges Authorized
 Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **EOG** Site Manager: **Brittany Long**

Project Name: **EOG Holyfield Layflat Release** Contact Info: Brittany.Long@tetratech.com

Project Location: (county, state) **Lea County, NM** Project #: **212C-MD-02801**

Invoice to: **EOG Attention Todd Wells**

Receiving Laboratory: **Cardinal Laboratories** Sampler Signature: **Gabe Huerta**

Comments:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
12	T-1 (0-1')	10/3/2022	10:15	X				X			
13	T-1 (1-2')	10/3/2022	10:30	X				X			
14	T-1 (2-3')	10/3/2022	10:45	X				X			
15	T-1 (3-4')	10/3/2022	11:00	X				X			
16	T-2 (0-1')	10/3/2022	11:15	X				X			
17	T-2 (1-2')	10/3/2022	11:30	X				X			
18	T-2 (2-3')	10/3/2022	11:45	X				X			
19	T-2 (3-4')	10/3/2022	12:00	X				X			

Relinquished by: **abe** Date: **10-4-22** Time: **1308**
 Received by: **Brittany Long** Date: **10-4-22** Time: **1312**

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride 300.0
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Asbestos
<input type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature: **14.8°C**
20.6°C
4.2°C #13

REMARKS:
 RUSH: Same Day **24 hr** 48 hr 72 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



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

October 07, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EOG HOLYFIELD LAYFLAT RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/06/22 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 1 (H224707-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2022	ND	2.14	107	2.00	13.5	
Toluene*	<0.050	0.050	10/06/2022	ND	2.11	106	2.00	14.3	
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.04	102	2.00	14.0	
Total Xylenes*	<0.150	0.150	10/06/2022	ND	6.15	102	6.00	13.7	
Total BTEX	<0.300	0.300	10/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	218	109	200	3.32	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.5 % 46.3-178

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	EOG HOLYFIELD LAYFLAT RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212 C - MD - 02801	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 4 (H224707-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2022	ND	2.14	107	2.00	13.5	
Toluene*	<0.050	0.050	10/06/2022	ND	2.11	106	2.00	14.3	
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.04	102	2.00	14.0	
Total Xylenes*	<0.150	0.150	10/06/2022	ND	6.15	102	6.00	13.7	
Total BTEX	<0.300	0.300	10/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	218	109	200	3.32	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **EOG** Site Manager: **Brittany Long**

Project Name: **EOG Holyfield Layflat Release** Contact Info: Brittany.Long@tetratech.com

Project Location: (county, state) **Lea County, NM** Project #: **212C-MD-02801**

Invoice to: **EOG Attention Todd Wells**

Receiving Laboratory: **Cardinal Laboratories** Sampler Signature: **Gabe Huerta**

Comments:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
H224707												
LAB USE ONLY												
1	SW-1	10/6/2022	2:45	X	X			X	X			
2	SW-4	10/6/2022	3:00	X					X			

Relinquished by: **Gabe Huerta** Date: **10-6-22** Time: **4:35** Received by: **Brittany Long** Date: **10-6-22** Time: **16:35**

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082 / 608
<input type="checkbox"/>	NORM
<input type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride 300.0 4500
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input type="checkbox"/>	General Water Chemistry (see attached list)
<input type="checkbox"/>	Anion/Cation Balance
<input type="checkbox"/>	Asbestos
<input type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature: **4.0°C**

REMARKS: RUSH: Same Day **24** hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

3.4°C #13

ORIGINAL COPY



Appendix D

State Correspondence

Long, Brittany

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, July 6, 2022 9:18 AM
To: Todd Wells
Subject: (Extension Approval) EOG - Holyfield Lay Flat Line

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Todd,

Incident #**NAPP2209754122**

Please include the incident number next time, so we don't need to go search for it. Your request for an extension to **October 2nd, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Tuesday, July 5, 2022 2:53 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: Fw: [EXTERNAL] Re: EOG - Holyfield Lay Flat Line

From: Todd Wells <Todd_Wells@eogresources.com>
Sent: Saturday, July 2, 2022 3:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Re: EOG - Holyfield Lay Flat Line

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

This correspondence is to request an extension of time for the Holyfield Lay Flat Line release located in Unit Letter B, Section 32, T-24S, R-34E in Lea County, NM. We are currently working with the NMSLO regarding a right of entry permit in order to divert traffic on Resource Lane in order to conduct assessment and possible remediation activities on the release that ran down Resource Lane. The requested ninety day extension of time is to receive the right of entry permit, conduct the soil assessment and possible remediation activities and write the closure report for submittal. Please let us know if you have any questions regarding this request.

Thank you,

Todd Wells

Sent from my iPhone

On Apr 4, 2022, at 2:46 PM, "Todd Wells" </O=EOG RESOURCES INC/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4EDB4F472FA54A33AA72209350E4549E-THOMAS> wrote:

Good Afternoon,

This correspondence is to notify the OCD of a reuse water release at the EOG, Holyfield Lay Flat Line location in Lea County, New Mexico. Additional information is being gathered and will be submitted along with the C-141. Please let us know if you have any questions regarding this site.

Thank you,

Todd Wells
Environmental Specialist
Midland Division



5509 Champions Drive
Midland, TX 79706
O: (432) 686-3613
C: (432) 312-7736
Todd_Wells@eogresources.com

Long, Brittany

From: Long, Brittany
Sent: Thursday, September 29, 2022 10:04 PM
To: OCD.Enviro@emnrd.nm.gov
Cc: Todd Wells; Gonzales, Clair
Subject: EOG Holyfield Lay Flat Line Sample Notification (nAPP2209754122)

Good Morning,

Tetra Tech is scheduled to collect 5 point confirmation, bottom hole and sidewall samples, for the EOG Resources Holyfield Lay Flat Line (nAPP2209754122) remediation starting on Tuesday, October 4, 2022, at 8:00 AM. These samples will be placed within the remediation taking place on the lease road and will continue each day as the remediation progresses. Please let me know if you have any questions or need any additional information.

Best Regards,

Brittany D. Long,

Brittany D. Long | Biologist & Project Manager
Phone: 432.682.4559 | Mobile 432.741.5813 | Fax:432.682.3946
Brittany.Long@tetrattech.com

Tetra Tech | Leading with Science®
901 West Wall Street, Suite 100 Midland, Texas 79701

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Please consider the environment before printing. [Read more](#)



Long, Brittany

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, October 5, 2022 9:02 AM
To: Todd Wells
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: (Extension Denied) - EOG - Holyfield Lay Flat Line - NAPP2209754122

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #**NAPP2209754122**

Todd,

An extension for this release has already been granted. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
 Environmental Bureau
 EMNRD - Oil Conservation Division
 506 W. Texas Ave. | Artesia, NM 88210
 575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, October 4, 2022 4:37 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] EOG - Holyfield Lay Flat Line

From: Todd Wells <Todd_Wells@eogresources.com>
Sent: Tuesday, October 4, 2022 3:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] EOG - Holyfield Lay Flat Line

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

This correspondence is to request a 30 day extension of time for the Holyfield Lay Flat Line release, Incident #NAPP2209754122, located in Unit Letter B, Section 32, T-24S, R-34E in Lea County, NM. The remedial field activities are complete. The requested 30 day extension of time is to write the closure report for submittal to the OCD. Please let us know if you have any questions regarding this request.

Thank you,

Todd Wells

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, July 6, 2022 9:18 AM
To: Todd Wells <Todd_Wells@eogresources.com>
Subject: (Extension Approval) EOG - Holyfield Lay Flat Line

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Todd,

Incident #**NAPP2209754122**

Please include the incident number next time, so we don't need to go search for it. Your request for an extension to **October 2nd, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Tuesday, July 5, 2022 2:53 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: Fw: [EXTERNAL] Re: EOG - Holyfield Lay Flat Line

From: Todd Wells <Todd_Wells@eogresources.com>
Sent: Saturday, July 2, 2022 3:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Re: EOG - Holyfield Lay Flat Line

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Good Afternoon,

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Thank you,

Todd Wells

Sent from my iPhone

On Apr 4, 2022, at 2:46 PM, "Todd Wells" </O=EOG RESOURCES INC/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4EDB4F472FA54A33AA72209350E4549E-THOMAS> wrote:

Good Afternoon,

This correspondence is to notify the OCD of a reuse water release at the EOG, Holyfield Lay Flat Line location in Lea County, New Mexico. Additional information is being gathered and will be submitted along with the C-141. Please let us know if you have any questions regarding this site.

Thank you,

Todd Wells
Environmental Specialist
Midland Division



5509 Champions Drive
Midland, TX 79706
O: (432) 686-3613
C: (432) 312-7736
Todd_Wells@eogresources.com

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

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

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

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

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

CONDITIONS

Action 153525

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 153525
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/18/2022