

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	
District RP	
Facility ID	
Application ID	

## I Release Notification

### Responsible Party

Responsible Party: Hilcorp Energy	OGRID 372171
Contact Name: Kate Kaufman	Contact Telephone: 346-237-2275
Contact email: kkaufman@hilcorp.com	Incident # (assigned by OCD) nAPP2312251224
Contact mailing address: 1111 Travis St. Houston, TX 77471	

### Location of Release Source

Latitude 36.428289 \_\_\_\_\_ Longitude -107.764403 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Huerfano Unit 309	Site Type: Well Site
Date Release Discovered: 4/19/2023	API# (if applicable) 30-045-34772

Unit Letter	Section	Township	Range	County
L	02	025N	009W	San Juan

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) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 38	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe) Unknown hydrocarbon	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release


An oil hauler contracted to Marathon got stuck on the road to the Huerfano Unit 309 wellsite on Wednesday, 4/19/2023. A second truck was dispatched to help move the first. In the process of pulling the first truck with straps, one of those straps came free, swung back, and the shackle punctured the tank on the second truck. The tank was punctured on the bottom, and approximately 38 bbls of fluid was released to the ground. No fluids were recovered. There was no immediate danger to the public and no fire occurred because of this release. Samples will be collected to determine next steps towards remediation.

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? Released volume was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A Notification was given by Kate Kaufman to Nelson Velez via email on 4/20/2023.	

## 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>Kate Kaufman</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>5/2/2023</u>
email: <u>kk Kaufman@hilcorp.com</u>	Telephone: <u>346-237-2275</u>
<b><u>OCD Only</u></b>	
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?	<u>      &gt;100      </u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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: Kathryn H Kaufman Title: Environmental SpecialistSignature:  Date: 6/26/2023email: kk Kaufman@hilcorp.com Telephone: 346-237-2275**OCD Only**Received by: Nelson Velez Date: 06/27/2023



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: Kathryn H. Kaufman Title: Environmental Specialist

Signature:  Date: 6/26/2023

email: kkaufman@hilcorp.com Telephone: 346-237-2275

**OCD Only**

Received by: Nelson Velez Date: 06/27/2023

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

Closure Approved by:  Date: 06/27/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

## Executive Summary – Incident #nAPP2312251224

On Wednesday, 4/19/2023, an oil hauler contracted to Marathon got stuck on the road to the Huerfano Unit 309 wellsite (API 30-045-34772). A second truck was dispatched to help move the first. In the process of pulling the first truck with straps, one of the straps came free, swung back, and the shackle punctured the tank on the second truck. The tank was punctured on the bottom, and approximately 38 bbls of fluid was released to the ground. No fluids were recovered. There was no immediate danger to the public and no fire occurred because of this release.

Samples were collected to delineate the extent of impacts on the pad and access road. Based on delineation sample results, impacted soil was removed in two excavation areas on the pad and transported offsite for disposal. Excavation dimensions are shown in the field sample diagrams below.

Twenty 5-point composite samples were collected on May 25, 2023. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report.

# Scaled Site Map

Lat: 36.428289  
Long: -107.764403

Huerfano 309 Wellsite  
API: 30-045-34472




Release Area



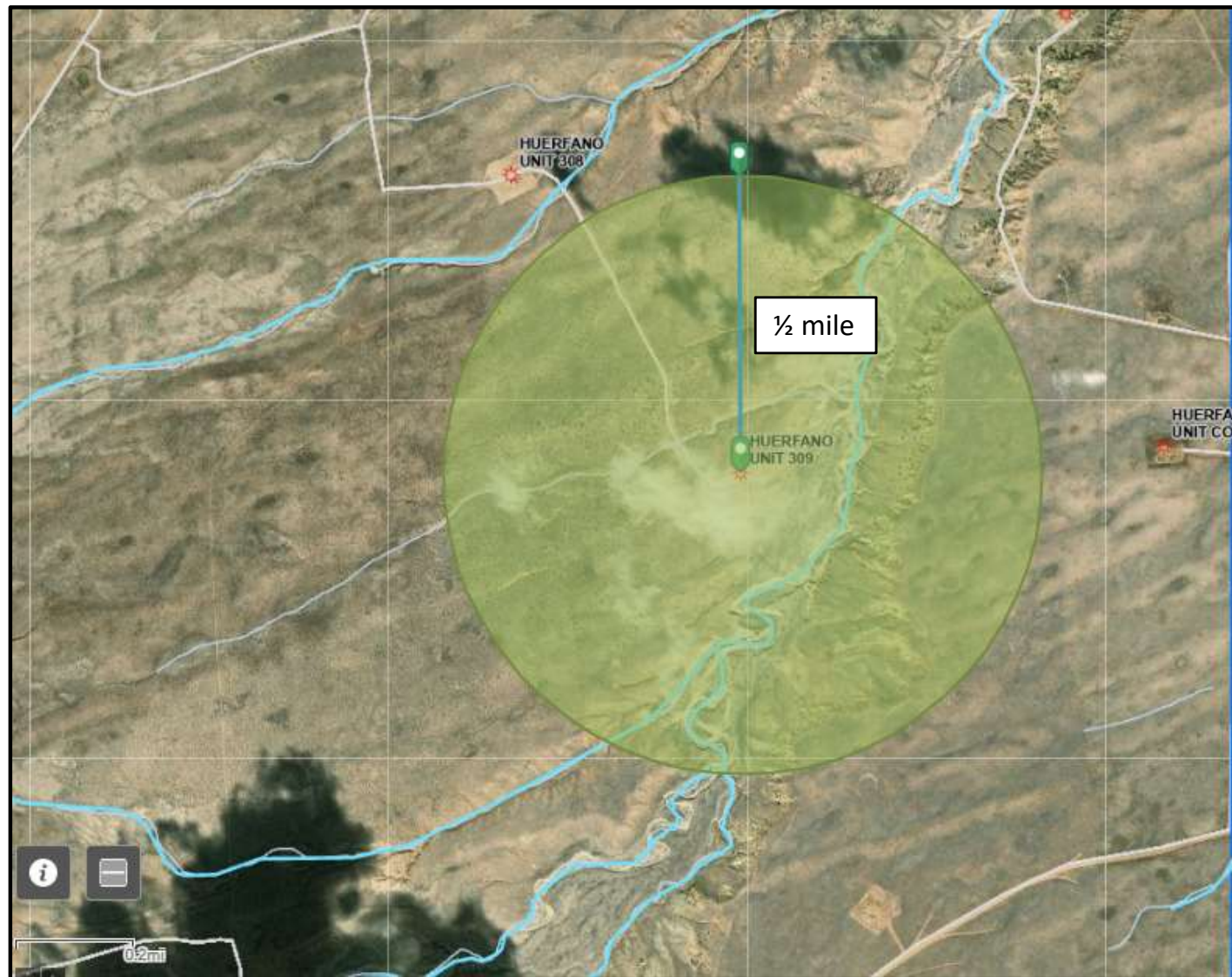
# Depth to groundwater determination.

BGT Siting Criteria for Huerfano Unit 309; estimated depth to groundwater is >100'.

 <b>Lodestar Services, Inc.</b> PO Box 4465, Durango, CO 81302		<b>Pit Permit Siting Criteria Information Sheet</b>		Client: XTO Energy Project: Pit Permits Revised: 16-Aug-08 Prepared by: Ashley Ager
API#:		USPLSS: 25N 09W 02		
Name: Huerfano No. 309		Lat/Long: 36.42830, -107.76506		
Depth to groundwater: >100'		Geologic formation: Nacimiento Formation (Tn)		
Distance to closest continuously flowing watercourse: 19.7 miles to San Juan River  Distance to closest significant watercourse, lakebed, playa lake, or sinkhole: 865' SE to dry wash (tributary of Blanco wash), 435' NNW to arroyo				
Permanent residence, school, hospital, institution or church within 300'		Soil Type: Aridisols  Annual Precipitation: Otis: 10.41", Chaco: 8.73", Lybrook: 10.88" Precipitation Notes: Historical 2.8" daily extreme max: Chaco		
Domestic fresh water well or spring within 500'				
Any other fresh water well or spring within 1000'				
Within incorporated municipal boundaries		Attached Documents: 24N10W_iWaters.pdf, 25N09W_iWaters.pdf, 25N10W_iWaters.pdf, 26N08W_iWaters.pdf, 26N09W_iWaters.pdf, FM3500640925B_H_UERFANO-No-309.jpg		
Within defined municipal fresh water well field		HUERFANO-No-309_gEarth-iWaters.jpg, HUERFANO-No-309_gEarth-PLS.jpg, Huerfano #309 Revised cut&fill.pdf, HUERFANO-No-309_topo-PLS.jpg		
Wetland within 500'		Mining Activity: None Near		
Within unstable area		NM_NRD-MMD_MinesMillQuarries_HUERFANO-No-309.jpg		
Within 100 year flood plain		NO-FEMA Zone 'X'		



## Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release

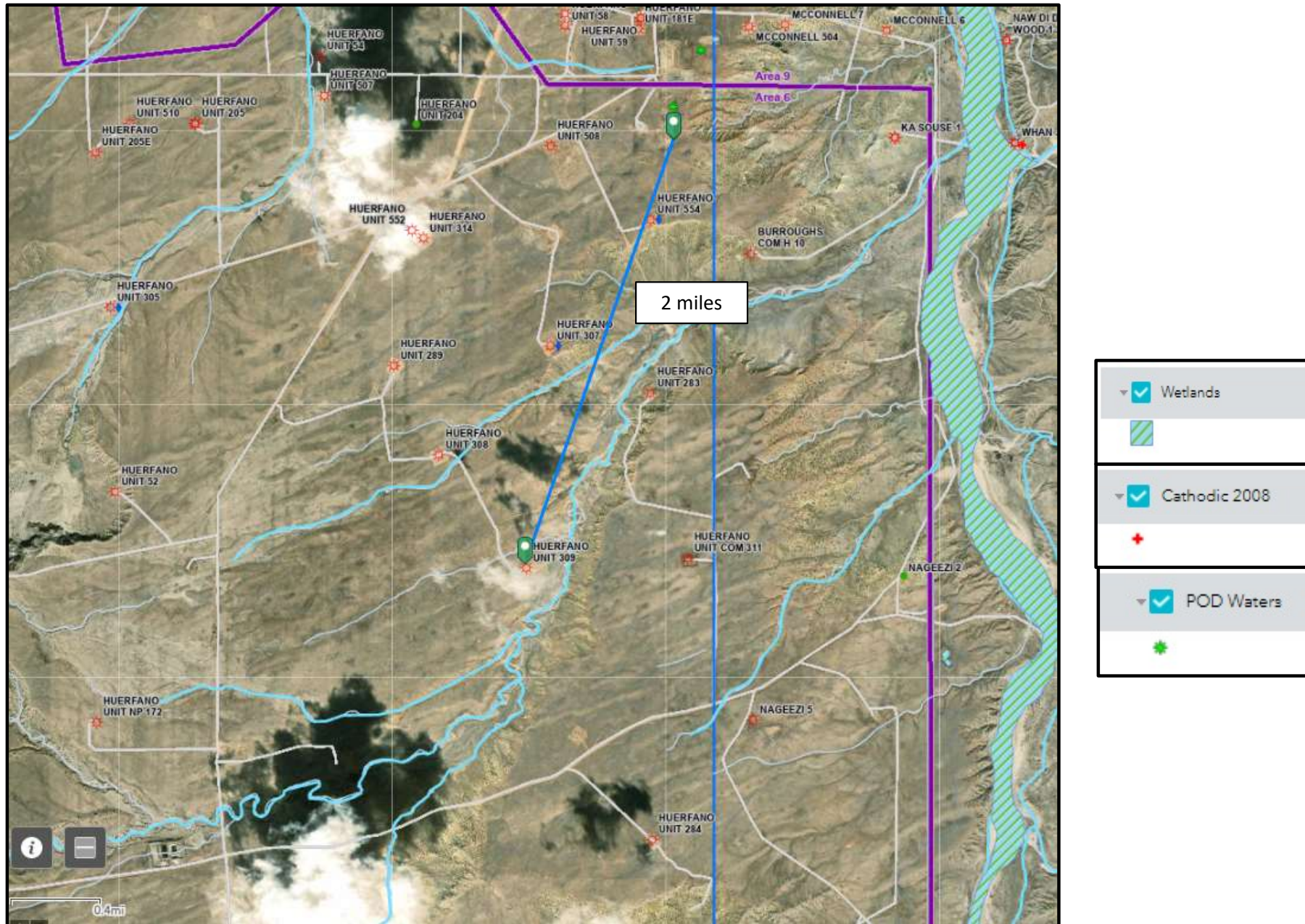


**Note 1:** Release point is not within 300 ft of a continuously flowing watercourse or other significant water course.

**Note 2:** The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.




## Distance to mapped water wells.



**Note:** The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

# Data table of soil contaminant concentrations

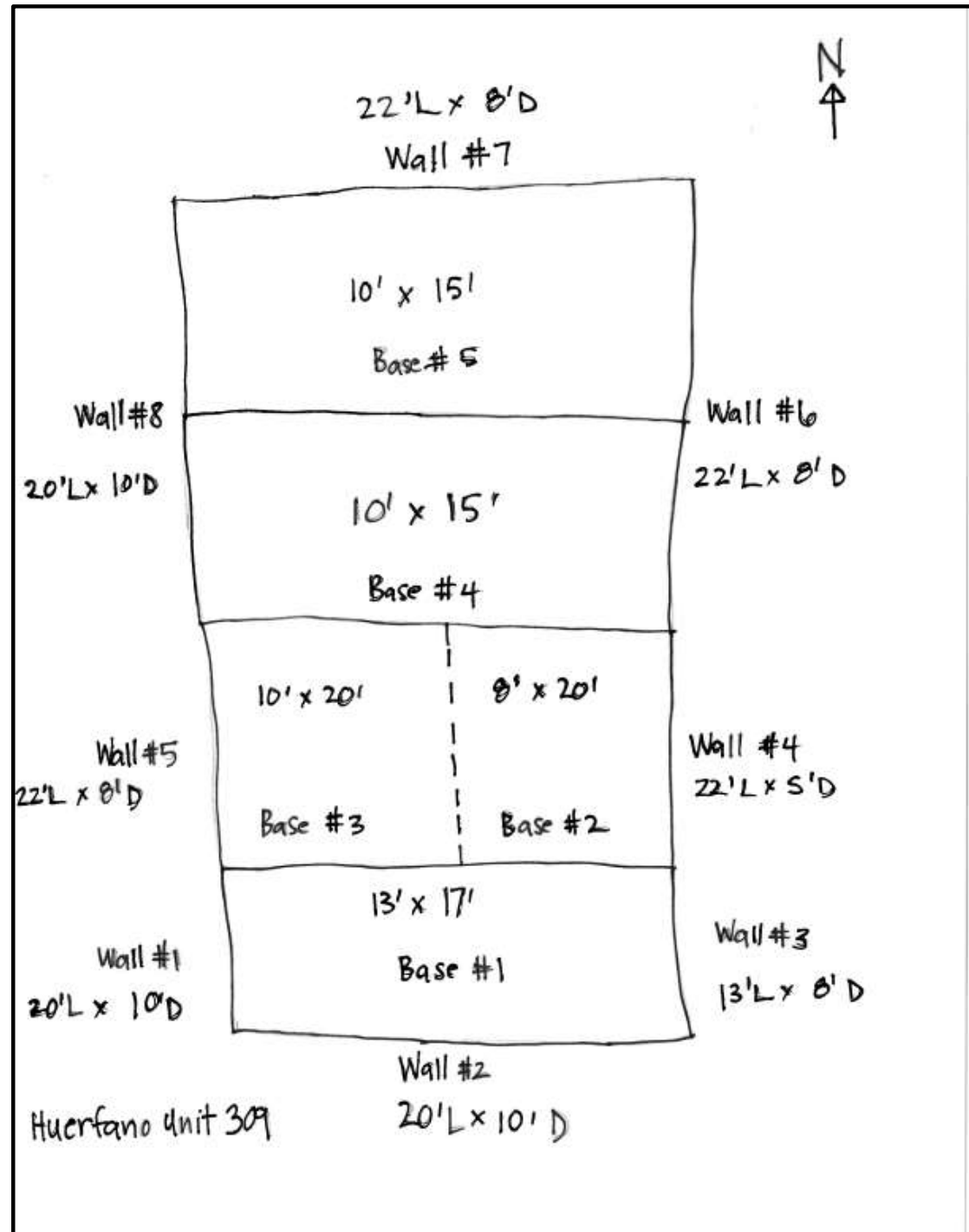
Sample Name	Sample Date	Huerfano #309 Laboratory Results										
		Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
<b>19.15.29 Table 1 Closure Criteria</b>		<b>20,000</b>	-	-	-	<b>2,500</b>	<b>1,000</b>	<b>10</b>	-	-	-	<b>50</b>
Base 1 (10' BGL)	5/25/2023	ND	10	ND	ND	10	10	ND	ND	ND	ND	ND
Base 2 (10' BGL)	5/25/2023	ND	29	ND	ND	29	29	ND	ND	ND	ND	ND
Base 3 (8' BGL)	5/25/2023	ND	11	ND	ND	11	11	ND	ND	ND	ND	ND
Base 4 (5' BGL)	5/25/2023	ND	16	ND	ND	16	16	ND	ND	ND	ND	ND
Base 5 (8' BGL)	5/25/2023	ND	10	ND	ND	10	10	ND	ND	ND	ND	ND
Wall 1 (10' BGL)	5/25/2023	ND	10	ND	ND	10	10	ND	ND	ND	ND	ND
Wall 2 (10' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 3 (8' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 4 (5' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 5 (8' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 6 (8' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 7 (8' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 8 (10' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Wall 1 (5' BGL)	5/25/2023	ND	 ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Wall 2 (5' BGL)	5/25/2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Wall 3 (4' BGL)	5/25/2023	ND	18	ND	ND	18	18	ND	ND	ND	ND	ND
North Base 1 (4' BGL)	5/25/2023	ND	68	ND	ND	68	68	ND	ND	ND	ND	ND
North Base 2 (5' BGL)	5/25/2023	ND	100	ND	ND	100	100	ND	ND	ND	ND	ND
North Base 3 (5' BGL)	5/25/2023	ND	110	ND	ND	110	110	ND	ND	ND	ND	ND
North Base 4 (5' BGL)	5/25/2023	ND	80	ND	ND	80	80	ND	ND	ND	ND	ND

Confirmation samples were collected on 5/25/2023 by Hilcorp personnel and all results were below NMOC 19.15.29.12.D Table 1 closure criteria.



# Field Sample Diagram

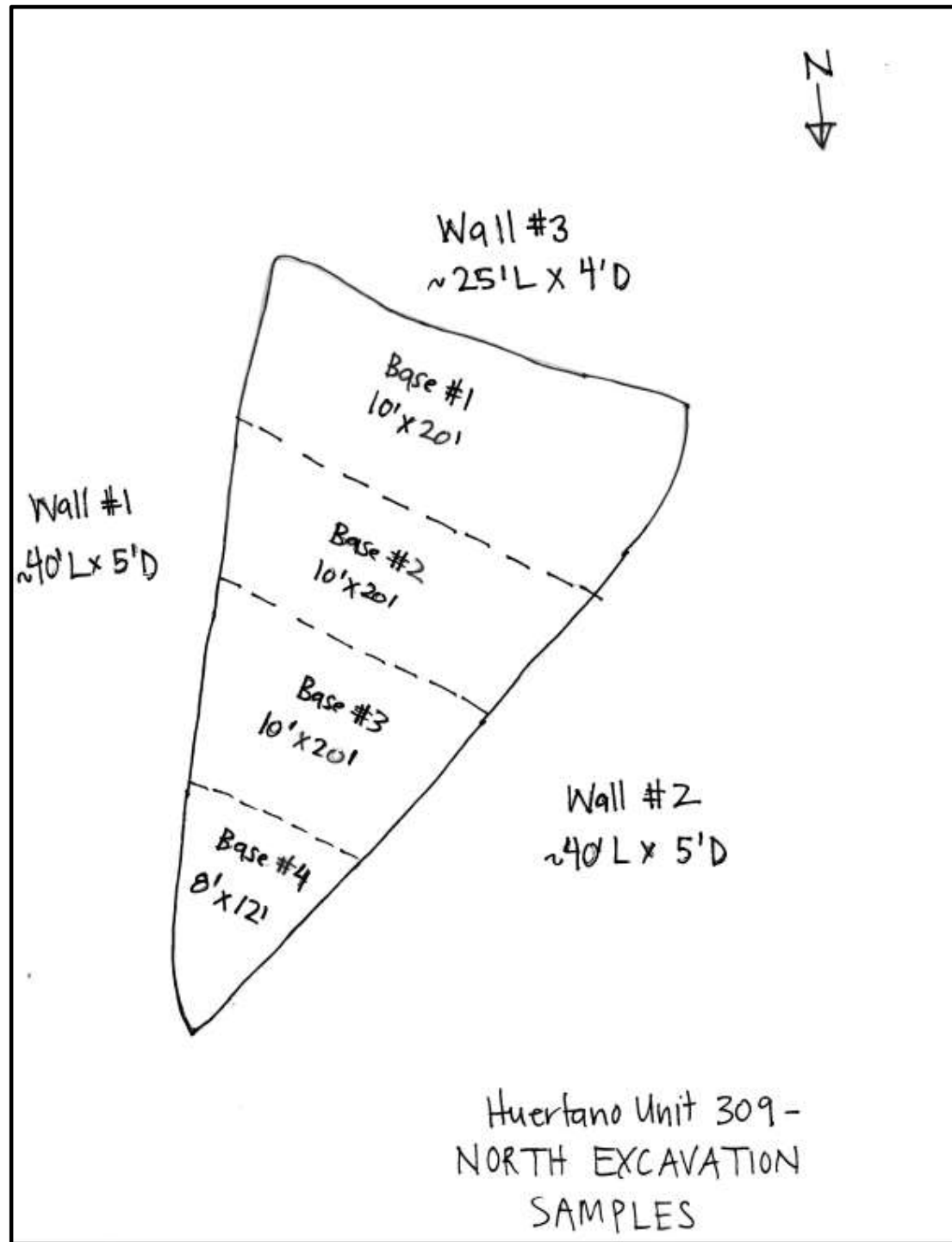
## South Excavation





# Field Sample Diagram

## North Excavation





## Sample Photos: South Excavation – Looking Northeast





## Sample Photos: South Excavation – Looking North





## Sample Photos: South Excavation – looking Northeast





## Sample Photos: South Excavation



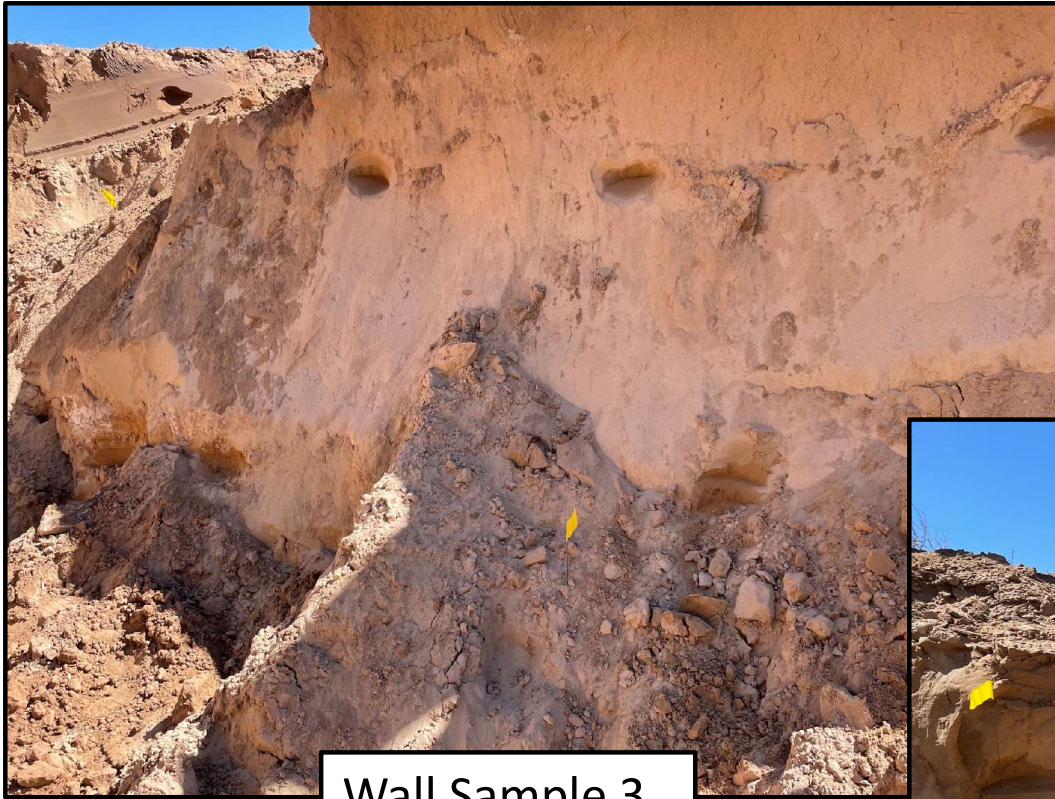
Wall Sample 1



Wall Sample 2



## Sample Photos: South Excavation



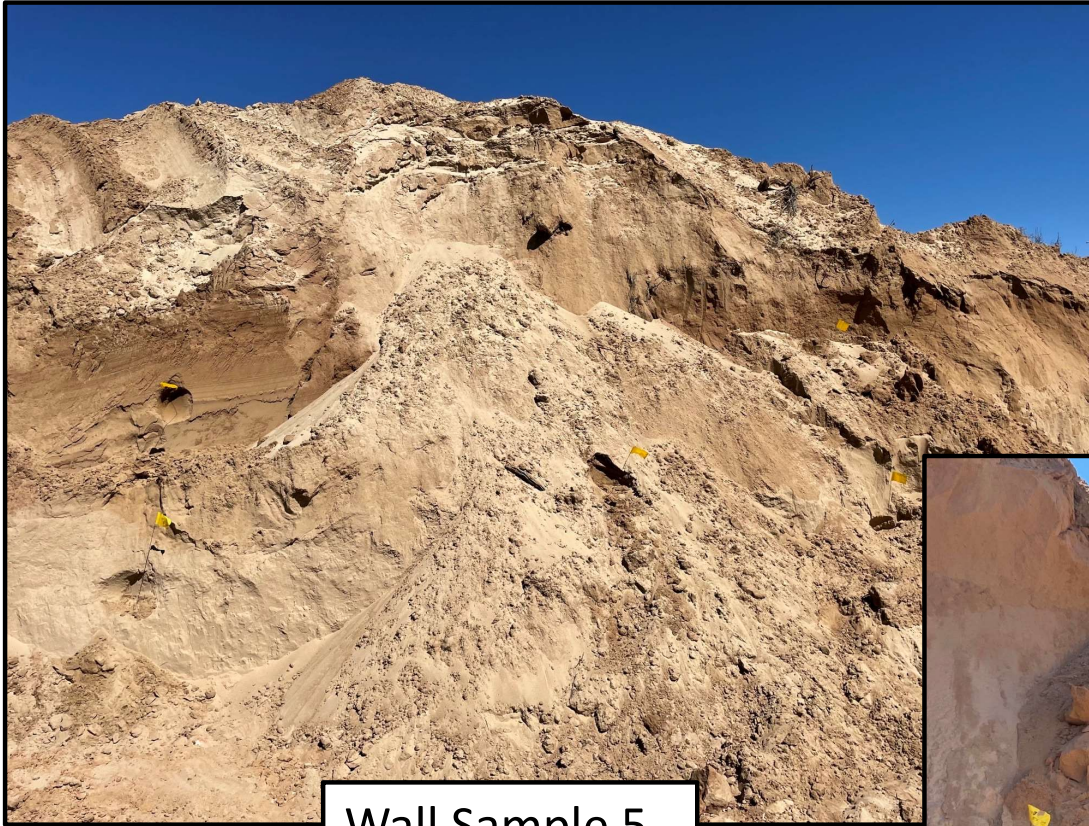
Wall Sample 3



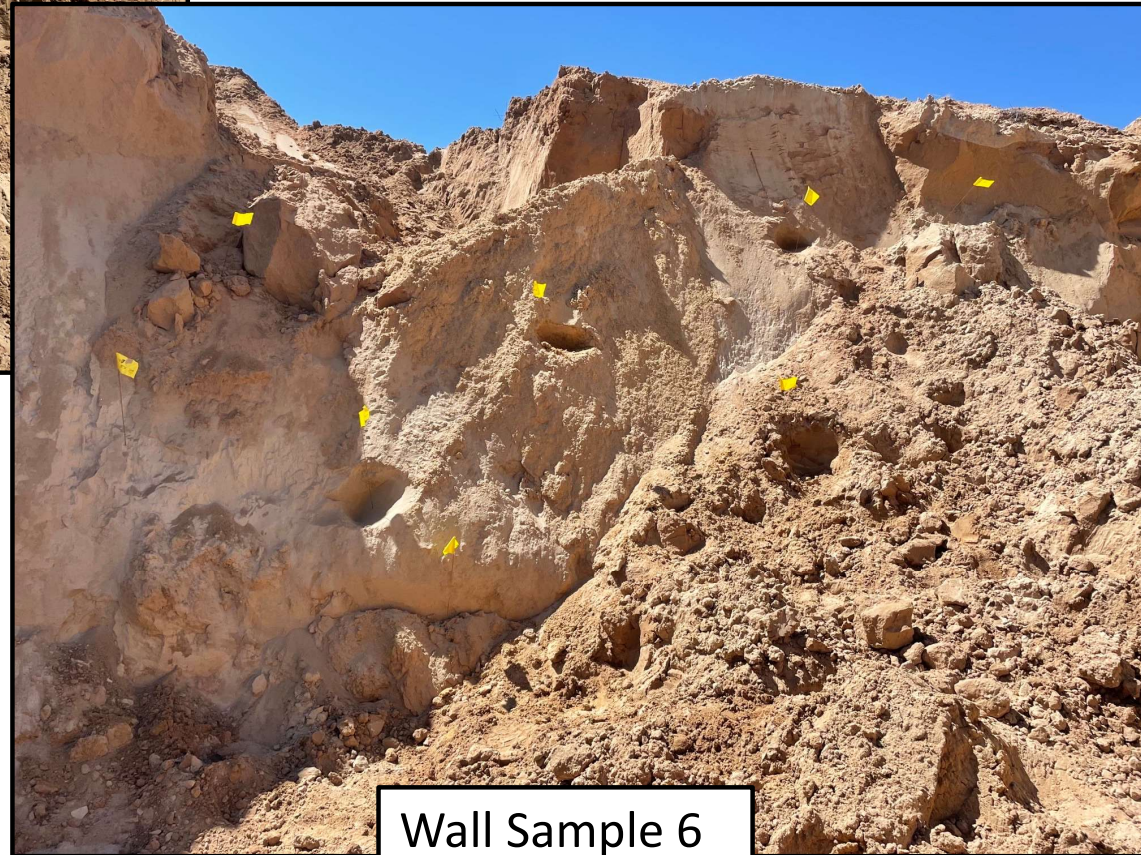
Wall Sample 4



## Sample Photos: South Excavation



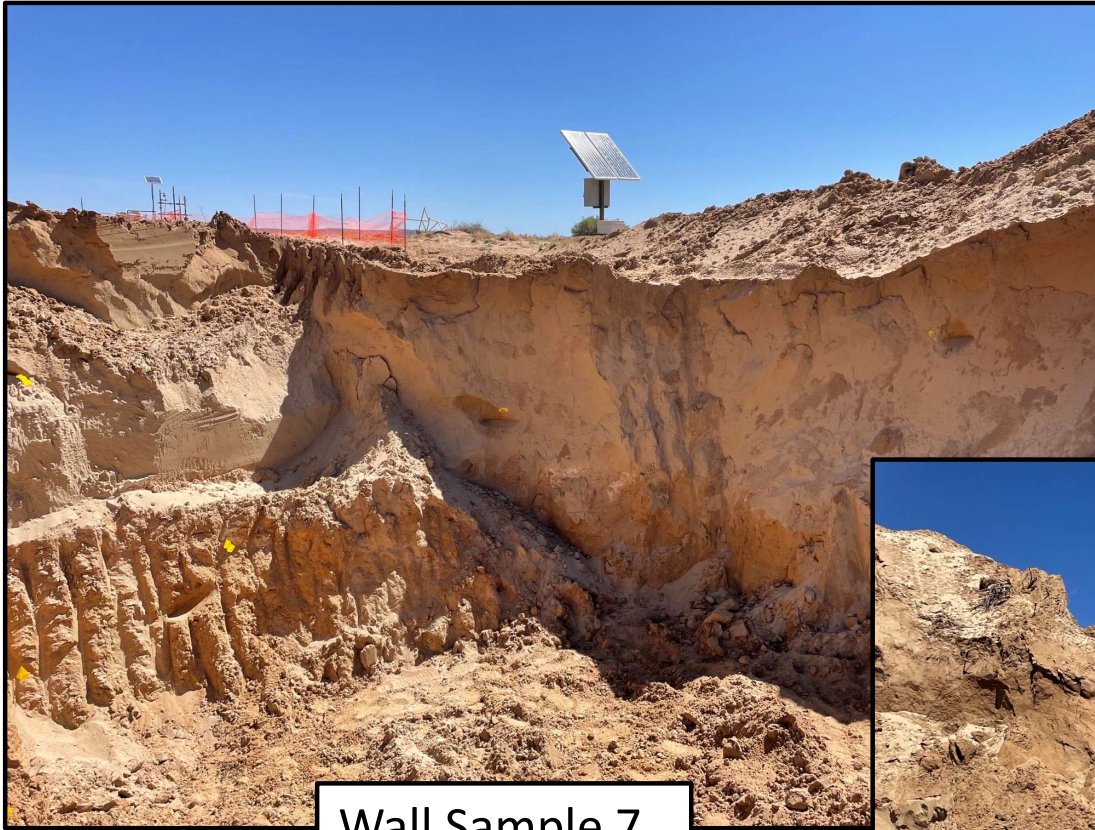
Wall Sample 5



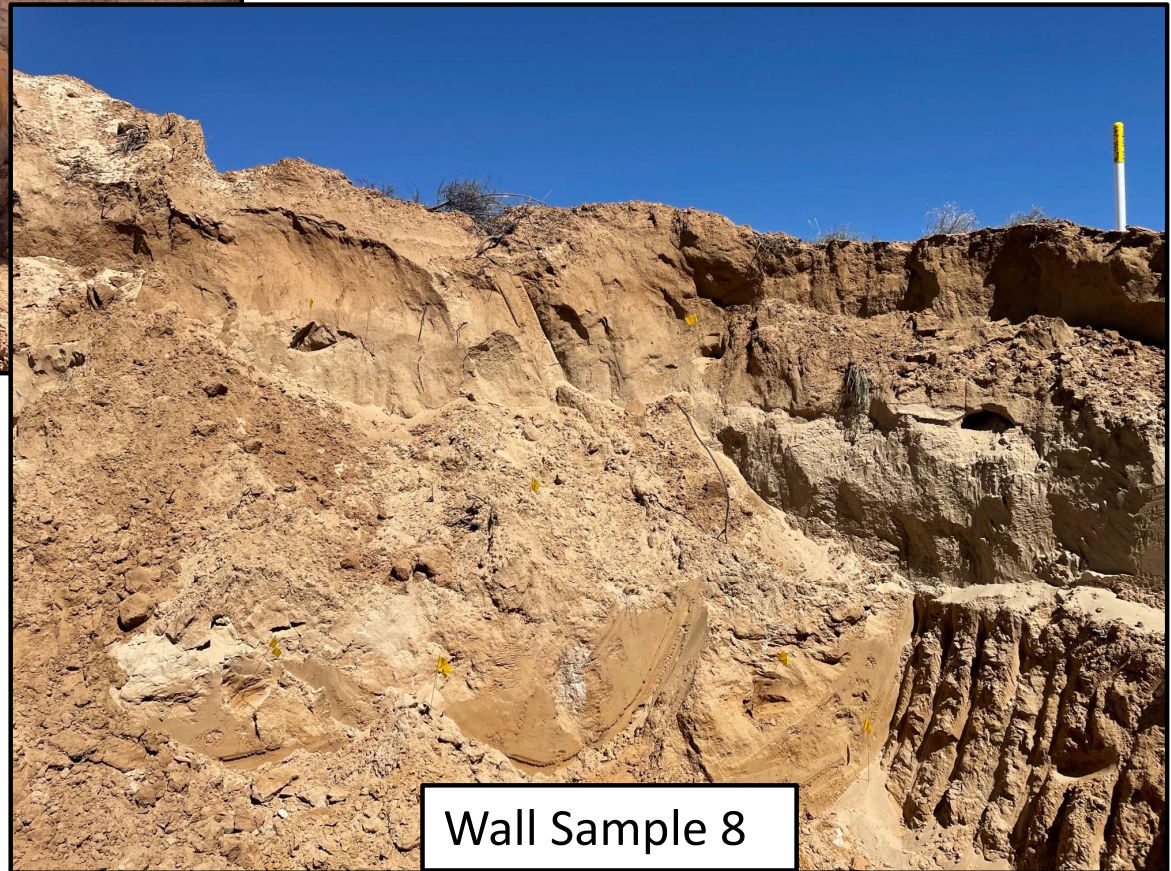
Wall Sample 6



## Sample Photos: South Excavation



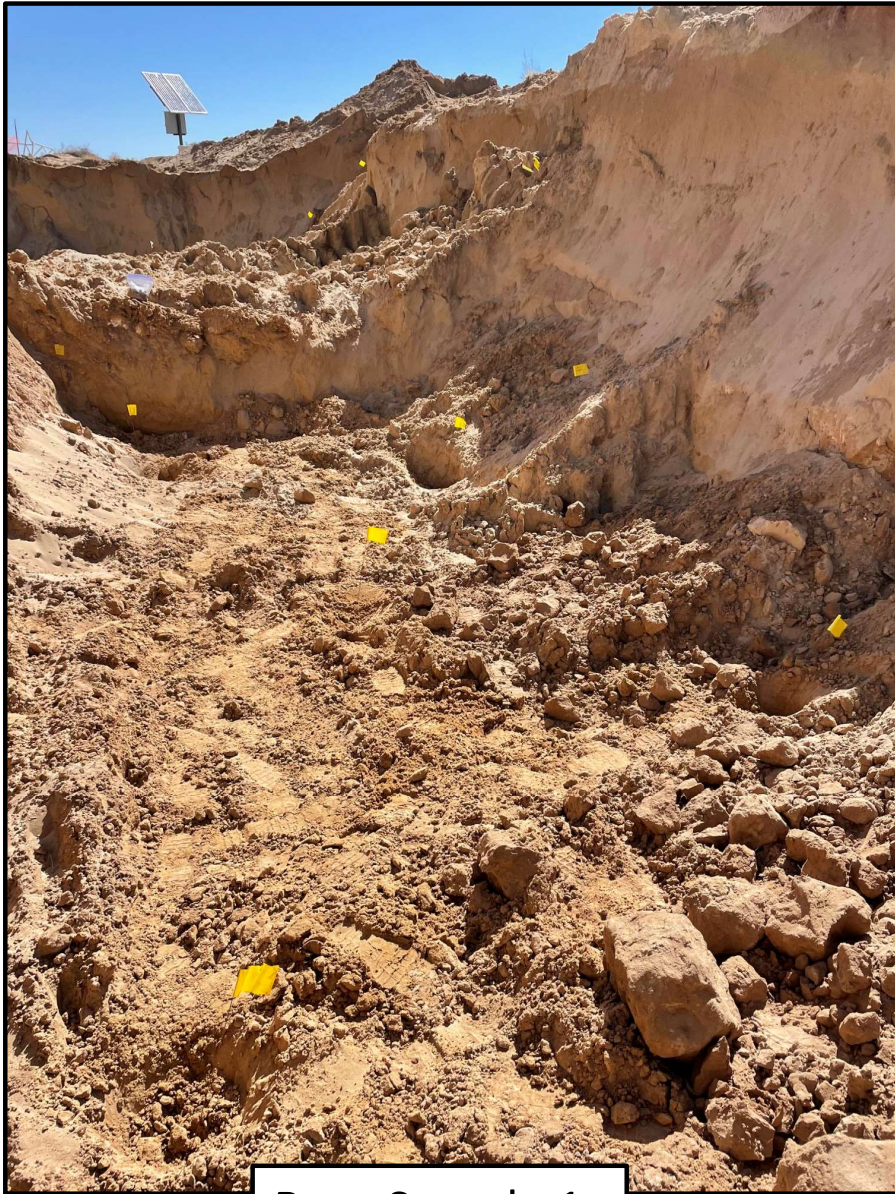
Wall Sample 7



Wall Sample 8



## Sample Photos: South Excavation



Base Sample 1



Base Sample 2



## Sample Photos: South Excavation



Base Sample 3



Base Sample 5



Base Sample 4



## Sample Photos: North Excavation – Looking South





## Sample Photos: North Excavation



Wall Sample 1



## Sample Photos: North Excavation



Wall Sample 2



## Sample Photos: North Excavation



Wall Sample 3



## Sample Photos: North Excavation



Base Sample 1



Base Sample 2



## Sample Photos: North Excavation



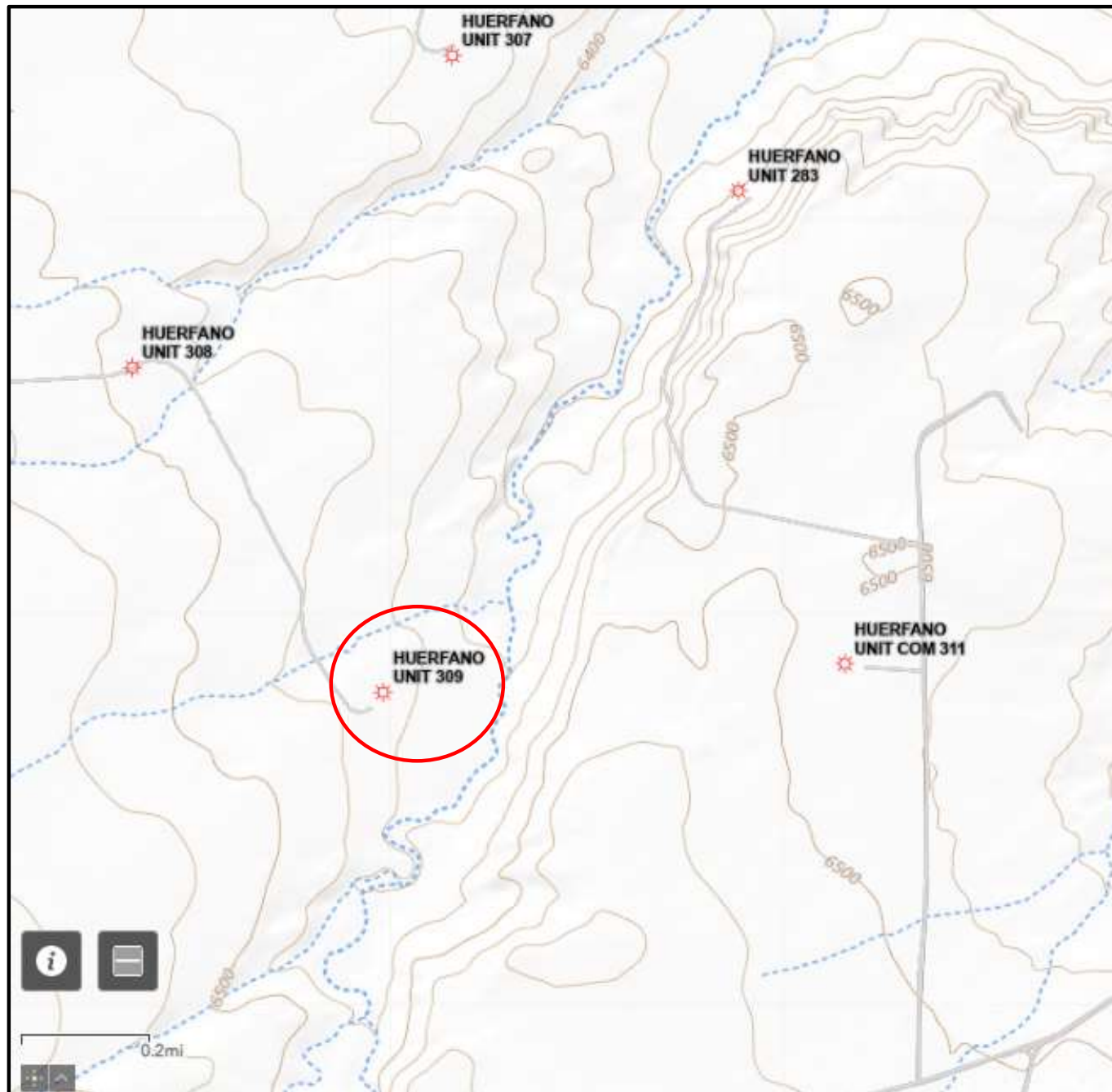
Base Sample 3



Base Sample 4



# Topographic Map



Analytical Data, Sample Collected 5/25/2023.

See attached Lab Report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 26, 2023

Kate Kaufman  
HILCORP ENERGY  
PO Box 4700  
Farmington, NM 87499  
TEL: (505) 564-0733  
FAX

RE: Huerfano 309

OrderNo.: 2305D63

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 20 sample(s) on 5/26/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 14, 2023.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Base 1 (10ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 9:50:00 AM

Lab ID: 2305D63-001

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	9.7	9.5		mg/Kg	1	5/30/2023 9:36:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/30/2023 9:36:48 PM
Surr: DNOP	91.4	69-147		%Rec	1	5/30/2023 9:36:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2023 12:38:00 AM
Surr: BFB	87.3	15-244		%Rec	1	5/31/2023 12:38:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	5/31/2023 12:38:00 AM
Toluene	ND	0.049		mg/Kg	1	5/31/2023 12:38:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2023 12:38:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2023 12:38:00 AM
Surr: 4-Bromofluorobenzene	84.0	39.1-146		%Rec	1	5/31/2023 12:38:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/5/2023 10:01:03 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Base 2 (10ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 9:57:00 AM

Lab ID: 2305D63-002

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	29	9.9		mg/Kg	1	5/30/2023 9:47:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/30/2023 9:47:39 PM
Surr: DNOP	84.0	69-147		%Rec	1	5/30/2023 9:47:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2023 1:00:00 AM
Surr: BFB	96.4	15-244		%Rec	1	5/31/2023 1:00:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	5/31/2023 1:00:00 AM
Toluene	ND	0.049		mg/Kg	1	5/31/2023 1:00:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2023 1:00:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2023 1:00:00 AM
Surr: 4-Bromofluorobenzene	88.4	39.1-146		%Rec	1	5/31/2023 1:00:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/6/2023 3:54:30 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Base 3 (8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:00:00 AM

Lab ID: 2305D63-003

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	5/30/2023 9:58:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/30/2023 9:58:34 PM
Surr: DNOP	87.2	69-147		%Rec	1	5/30/2023 9:58:34 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2023 1:21:00 AM
Surr: BFB	87.4	15-244		%Rec	1	5/31/2023 1:21:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	5/31/2023 1:21:00 AM
Toluene	ND	0.049		mg/Kg	1	5/31/2023 1:21:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2023 1:21:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2023 1:21:00 AM
Surr: 4-Bromofluorobenzene	85.4	39.1-146		%Rec	1	5/31/2023 1:21:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/6/2023 4:31:44 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 3 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Base 4 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:05:00 AM

Lab ID: 2305D63-004

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	5/30/2023 10:09:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/30/2023 10:09:29 PM
Surr: DNOP	95.4	69-147		%Rec	1	5/30/2023 10:09:29 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/31/2023 1:43:00 AM
Surr: BFB	95.6	15-244		%Rec	1	5/31/2023 1:43:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	5/31/2023 1:43:00 AM
Toluene	ND	0.048		mg/Kg	1	5/31/2023 1:43:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	5/31/2023 1:43:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	5/31/2023 1:43:00 AM
Surr: 4-Bromofluorobenzene	87.7	39.1-146		%Rec	1	5/31/2023 1:43:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/6/2023 5:08:58 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 4 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Base 5 (8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:07:00 AM

Lab ID: 2305D63-005

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	10	9.7		mg/Kg	1	5/30/2023 10:20:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/30/2023 10:20:27 PM
Surr: DNOP	90.5	69-147		%Rec	1	5/30/2023 10:20:27 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2023 2:04:00 AM
Surr: BFB	87.3	15-244		%Rec	1	5/31/2023 2:04:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	5/31/2023 2:04:00 AM
Toluene	ND	0.049		mg/Kg	1	5/31/2023 2:04:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2023 2:04:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2023 2:04:00 AM
Surr: 4-Bromofluorobenzene	83.8	39.1-146		%Rec	1	5/31/2023 2:04:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/6/2023 5:21:23 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 5 of 27



## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 1 (10ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:12:00 AM

Lab ID: 2305D63-006

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	10	9.6		mg/Kg	1	5/30/2023 10:31:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/30/2023 10:31:28 PM
Surr: DNOP	92.7	69-147		%Rec	1	5/30/2023 10:31:28 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2023 2:26:00 AM
Surr: BFB	88.6	15-244		%Rec	1	5/31/2023 2:26:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	5/31/2023 2:26:00 AM
Toluene	ND	0.049		mg/Kg	1	5/31/2023 2:26:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2023 2:26:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2023 2:26:00 AM
Surr: 4-Bromofluorobenzene	85.6	39.1-146		%Rec	1	5/31/2023 2:26:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	6/6/2023 5:33:47 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 6 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 2 (10ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:17:00 AM

Lab ID: 2305D63-007

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2023 10:20:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2023 10:20:34 AM
Surr: DNOP	105	69-147		%Rec	1	6/2/2023 10:20:34 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/1/2023 8:23:06 PM
Surr: BFB	72.5	15-244		%Rec	1	6/1/2023 8:23:06 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	6/1/2023 8:23:06 PM
Toluene	ND	0.050		mg/Kg	1	6/1/2023 8:23:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/1/2023 8:23:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/1/2023 8:23:06 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	6/1/2023 8:23:06 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 6:11:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 7 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 3 (8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:20:00 AM

Lab ID: 2305D63-008

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/2/2023 10:31:06 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2023 10:31:06 AM
Surr: DNOP	131	69-147		%Rec	1	6/2/2023 10:31:06 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/1/2023 9:33:03 PM
Surr: BFB	66.2	15-244		%Rec	1	6/1/2023 9:33:03 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	6/1/2023 9:33:03 PM
Toluene	ND	0.050		mg/Kg	1	6/1/2023 9:33:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/1/2023 9:33:03 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/1/2023 9:33:03 PM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	6/1/2023 9:33:03 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 6:23:25 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 8 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 4 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:24:00 AM

Lab ID: 2305D63-009

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/2/2023 10:41:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2023 10:41:40 AM
Surr: DNOP	96.3	69-147		%Rec	1	6/2/2023 10:41:40 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2023 10:42:59 PM
Surr: BFB	81.4	15-244		%Rec	1	6/1/2023 10:42:59 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/1/2023 10:42:59 PM
Toluene	ND	0.049		mg/Kg	1	6/1/2023 10:42:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2023 10:42:59 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/1/2023 10:42:59 PM
Surr: 4-Bromofluorobenzene	99.7	39.1-146		%Rec	1	6/1/2023 10:42:59 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 6:35:49 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 9 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 5 (8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:27:00 AM

Lab ID: 2305D63-010

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/2/2023 10:52:15 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2023 10:52:15 AM
Surr: DNOP	131	69-147		%Rec	1	6/2/2023 10:52:15 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2023 11:06:20 PM
Surr: BFB	69.6	15-244		%Rec	1	6/1/2023 11:06:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	6/1/2023 11:06:20 PM
Toluene	ND	0.047		mg/Kg	1	6/1/2023 11:06:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2023 11:06:20 PM
Xylenes, Total	ND	0.093		mg/Kg	1	6/1/2023 11:06:20 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	6/1/2023 11:06:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 6:48:13 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 10 of 27



## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 6 (8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:30:00 AM

Lab ID: 2305D63-011

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/2/2023 11:02:51 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2023 11:02:51 AM
Surr: DNOP	112	69-147		%Rec	1	6/2/2023 11:02:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2023 11:29:46 PM
Surr: BFB	67.8	15-244		%Rec	1	6/1/2023 11:29:46 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/1/2023 11:29:46 PM
Toluene	ND	0.048		mg/Kg	1	6/1/2023 11:29:46 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2023 11:29:46 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/1/2023 11:29:46 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	6/1/2023 11:29:46 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 7:00:38 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 11 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 7(8ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:34:00 AM

Lab ID: 2305D63-012

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2023 11:13:27 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2023 11:13:27 AM
Surr: DNOP	127	69-147		%Rec	1	6/2/2023 11:13:27 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2023 11:53:18 PM
Surr: BFB	65.7	15-244		%Rec	1	6/1/2023 11:53:18 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/1/2023 11:53:18 PM
Toluene	ND	0.047		mg/Kg	1	6/1/2023 11:53:18 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2023 11:53:18 PM
Xylenes, Total	ND	0.094		mg/Kg	1	6/1/2023 11:53:18 PM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	6/1/2023 11:53:18 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 7:37:52 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 12 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: Wall 8 (10ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 10:38:00 AM

Lab ID: 2305D63-013

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/2/2023 11:24:04 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/2/2023 11:24:04 AM
Surr: DNOP	102	69-147		%Rec	1	6/2/2023 11:24:04 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/2/2023 12:16:44 AM
Surr: BFB	71.9	15-244		%Rec	1	6/2/2023 12:16:44 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	6/2/2023 12:16:44 AM
Toluene	ND	0.050		mg/Kg	1	6/2/2023 12:16:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/2/2023 12:16:44 AM
Xylenes, Total	ND	0.099		mg/Kg	1	6/2/2023 12:16:44 AM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	6/2/2023 12:16:44 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 7:50:00 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 13 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Wall 1 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:20:00 AM

Lab ID: 2305D63-014

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/2/2023 11:34:44 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2023 11:34:44 AM
Surr: DNOP	106	69-147		%Rec	1	6/2/2023 11:34:44 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2023 12:40:15 AM
Surr: BFB	61.2	15-244		%Rec	1	6/2/2023 12:40:15 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	6/2/2023 12:40:15 AM
Toluene	ND	0.047		mg/Kg	1	6/2/2023 12:40:15 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2023 12:40:15 AM
Xylenes, Total	ND	0.093		mg/Kg	1	6/2/2023 12:40:15 AM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	6/2/2023 12:40:15 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 8:02:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 14 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Wall 2 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:24:00 AM

Lab ID: 2305D63-015

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2023 11:45:23 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2023 11:45:23 AM
Surr: DNOP	102	69-147		%Rec	1	6/2/2023 11:45:23 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2023 1:03:43 AM
Surr: BFB	66.2	15-244		%Rec	1	6/2/2023 1:03:43 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/2/2023 1:03:43 AM
Toluene	ND	0.047		mg/Kg	1	6/2/2023 1:03:43 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2023 1:03:43 AM
Xylenes, Total	ND	0.094		mg/Kg	1	6/2/2023 1:03:43 AM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	6/2/2023 1:03:43 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 8:15:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 15 of 27



## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Wall 3 (4ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:30:00 AM

Lab ID: 2305D63-016

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	18	9.8		mg/Kg	1	6/5/2023 10:40:07 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/5/2023 10:40:07 AM
Surr: DNOP	130	69-147		%Rec	1	6/5/2023 10:40:07 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2023 1:27:10 AM
Surr: BFB	74.4	15-244		%Rec	1	6/2/2023 1:27:10 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/2/2023 1:27:10 AM
Toluene	ND	0.047		mg/Kg	1	6/2/2023 1:27:10 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2023 1:27:10 AM
Xylenes, Total	ND	0.095		mg/Kg	1	6/2/2023 1:27:10 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	6/2/2023 1:27:10 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 8:27:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 16 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Base 1(4ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:31:00 AM

Lab ID: 2305D63-017

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	68	9.9		mg/Kg	1	6/5/2023 10:50:50 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/5/2023 10:50:50 AM
Surr: DNOP	121	69-147		%Rec	1	6/5/2023 10:50:50 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/2/2023 2:14:11 AM
Surr: BFB	126	15-244		%Rec	1	6/2/2023 2:14:11 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/2/2023 2:14:11 AM
Toluene	ND	0.048		mg/Kg	1	6/2/2023 2:14:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/2/2023 2:14:11 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/2/2023 2:14:11 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	6/2/2023 2:14:11 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 8:39:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 17 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Base 2(5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:35:00 AM

Lab ID: 2305D63-018

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	100	9.8		mg/Kg	1	6/5/2023 11:01:31 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/5/2023 11:01:31 AM
Surr: DNOP	98.6	69-147		%Rec	1	6/5/2023 11:01:31 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/2/2023 2:37:38 AM
Surr: BFB	114	15-244		%Rec	1	6/2/2023 2:37:38 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	6/2/2023 2:37:38 AM
Toluene	ND	0.050		mg/Kg	1	6/2/2023 2:37:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/2/2023 2:37:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/2/2023 2:37:38 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	6/2/2023 2:37:38 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 8:52:20 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 18 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Base 3 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:38:00 AM

Lab ID: 2305D63-019

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	110	9.2		mg/Kg	1	6/5/2023 11:12:15 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/5/2023 11:12:15 AM
Surr: DNOP	117	69-147		%Rec	1	6/5/2023 11:12:15 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2023 3:00:57 AM
Surr: BFB	139	15-244		%Rec	1	6/2/2023 3:00:57 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/2/2023 3:00:57 AM
Toluene	ND	0.047		mg/Kg	1	6/2/2023 3:00:57 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2023 3:00:57 AM
Xylenes, Total	ND	0.094		mg/Kg	1	6/2/2023 3:00:57 AM
Surr: 4-Bromofluorobenzene	97.9	39.1-146		%Rec	1	6/2/2023 3:00:57 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 9:04:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 19 of 27

## Analytical Report

Lab Order 2305D63

Date Reported: 6/26/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: North Base 4 (5ft BGL)

Project: Huerfano 309

Collection Date: 5/25/2023 11:41:00 AM

Lab ID: 2305D63-020

Matrix: SOIL

Received Date: 5/26/2023 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	80	9.9		mg/Kg	1	6/5/2023 11:22:59 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/5/2023 11:22:59 AM
Surr: DNOP	102	69-147		%Rec	1	6/5/2023 11:22:59 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2023 3:24:13 AM
Surr: BFB	93.4	15-244		%Rec	1	6/2/2023 3:24:13 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	6/2/2023 3:24:13 AM
Toluene	ND	0.047		mg/Kg	1	6/2/2023 3:24:13 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2023 3:24:13 AM
Xylenes, Total	ND	0.094		mg/Kg	1	6/2/2023 3:24:13 AM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	6/2/2023 3:24:13 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/6/2023 9:17:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 20 of 27

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D63  
26-Jun-23

Client: HILCORP ENERGY  
Project: Huerfano 309

Sample ID: MB-75354	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 75354	RunNo: 97209
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3531181 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-75354	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 75354	RunNo: 97209
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3531182 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.0 90 110

- Qualifiers:
- \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - PQL Practical Quantitative Limit
  - S % Recovery outside of standard limits. If undiluted results may be estimated.

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



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2305D63

26-Jun-23

**Client:** HILCORP ENERGY**Project:** Huerfano 309

Sample ID: <b>LCS-75216</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75216</b>			RunNo: <b>97083</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524872</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.2	61.9	130			
Surr: DNOP	4.9		5.000		98.8	69	147			

Sample ID: <b>LCS-75217</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75217</b>			RunNo: <b>97083</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524873</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.7	69	147			

Sample ID: <b>MB-75216</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75216</b>			RunNo: <b>97083</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524875</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	69	147			

Sample ID: <b>MB-75217</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75217</b>			RunNo: <b>97083</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524876</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	69	147			

Sample ID: <b>LCS-75282</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75282</b>			RunNo: <b>97198</b>						
Prep Date: <b>6/1/2023</b>	Analysis Date: <b>6/2/2023</b>			SeqNo: <b>3530021</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	117	61.9	130			
Surr: DNOP	5.6		5.000		113	69	147			

Sample ID: <b>MB-75282</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75282</b>			RunNo: <b>97198</b>						
Prep Date: <b>6/1/2023</b>	Analysis Date: <b>6/2/2023</b>			SeqNo: <b>3530022</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 22 of 27

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2305D63

26-Jun-23

**Client:** HILCORP ENERGY**Project:** Huerfano 309

Sample ID: <b>MB-75282</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>75282</b>	RunNo: <b>97198</b>								
Prep Date: <b>6/1/2023</b>	Analysis Date: <b>6/2/2023</b>	SeqNo: <b>3530022</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.4	69	147			

Sample ID: <b>2305D63-007AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>Wall 2 (10ft BGL)</b>	Batch ID: <b>75282</b>	RunNo: <b>97202</b>								
Prep Date: <b>6/1/2023</b>	Analysis Date: <b>6/5/2023</b>	SeqNo: <b>3530760</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.6	48.22	0	111	54.2	135			
Surr: DNOP	5.1		4.822		106	69	147			

Sample ID: <b>2305D63-007AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>Wall 2 (10ft BGL)</b>	Batch ID: <b>75282</b>	RunNo: <b>97202</b>								
Prep Date: <b>6/1/2023</b>	Analysis Date: <b>6/5/2023</b>	SeqNo: <b>3530761</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	49.02	0	104	54.2	135	4.19	29.2	
Surr: DNOP	4.8		4.902		97.9	69	147	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 23 of 27

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2305D63

26-Jun-23

**Client:** HILCORP ENERGY**Project:** Huerfano 309

Sample ID: <b>LCS-75211</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75211</b>			RunNo: <b>97082</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524885</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.3	70	130			
Surr: BFB	2000		1000		200	15	244			

Sample ID: <b>MB-75211</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75211</b>			RunNo: <b>97082</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524886</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.9	15	244			

Sample ID: <b>2305d63-007ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>Wall 2 (10ft BGL)</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528189</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.90	0	87.2	70	130			
Surr: BFB	5000		996.0		501	15	244			S

Sample ID: <b>2305d63-007amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>Wall 2 (10ft BGL)</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528190</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.70	0	87.8	70	130	0.0621	20	
Surr: BFB	5100		988.1		514	15	244	0	0	S

Sample ID: <b>lcs-75262</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528197</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.0	70	130			
Surr: BFB	4900		1000		492	15	244			S

Sample ID: <b>mb-75262</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528198</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 24 of 27

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D63

26-Jun-23

Client: HILCORP ENERGY

Project: Huerfano 309

Sample ID: mb-75262	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 75262	RunNo: 97133								
Prep Date: 5/31/2023	Analysis Date: 6/1/2023	SeqNo: 3528198	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		83.0	15	244			

- Qualifiers:
- \*

D

H

ND

PQL

S

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quantitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

E

J

P

RL
- Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2305D63

26-Jun-23

**Client:** HILCORP ENERGY**Project:** Huerfano 309

Sample ID: <b>LCS-75211</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75211</b>			RunNo: <b>97082</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524912</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.5	70	130			
Toluene	0.82	0.050	1.000	0	82.2	70	130			
Ethylbenzene	0.81	0.050	1.000	0	81.2	70	130			
Xylenes, Total	2.4	0.10	3.000	0	80.9	70	130			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	39.1	146			

Sample ID: <b>MB-75211</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75211</b>			RunNo: <b>97082</b>						
Prep Date: <b>5/26/2023</b>	Analysis Date: <b>5/30/2023</b>			SeqNo: <b>3524913</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	39.1	146			

Sample ID: <b>LCS-75262</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528230</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	70	130			
Toluene	0.93	0.050	1.000	0	92.9	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.6	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: <b>mb-75262</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>75262</b>			RunNo: <b>97133</b>						
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>			SeqNo: <b>3528231</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **2305D63****26-Jun-23****Client:** HILCORP ENERGY**Project:** Huerfano 309

Sample ID: <b>2305d63-008ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>Wall 3 (8ft BGL)</b>	Batch ID: <b>75262</b>		RunNo: <b>97133</b>							
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>		SeqNo: <b>3528234</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9960	0	93.9	70	130			
Toluene	0.94	0.050	0.9960	0.01738	92.5	70	130			
Ethylbenzene	0.94	0.050	0.9960	0	94.1	70	130			
Xylenes, Total	2.8	0.10	2.988	0	95.2	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9960		103	39.1	146			

Sample ID: <b>2305d63-008amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>Wall 3 (8ft BGL)</b>	Batch ID: <b>75262</b>		RunNo: <b>97133</b>							
Prep Date: <b>5/31/2023</b>	Analysis Date: <b>6/1/2023</b>		SeqNo: <b>3528235</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9872	0	94.6	70	130	0.182	20	
Toluene	0.93	0.049	0.9872	0.01738	92.7	70	130	0.596	20	
Ethylbenzene	0.94	0.049	0.9872	0	94.9	70	130	0.0461	20	
Xylenes, Total	2.8	0.099	2.962	0	95.6	70	130	0.494	20	
Surr: 4-Bromofluorobenzene	1.0		0.9872		101	39.1	146	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2305D63

RcptNo: 1

Received By: Tracy Casarrubias 5/26/2023 6:55:00 AM

Completed By: Tracy Casarrubias 5/26/2023 7:45:42 AM

Reviewed By: *ju 5/26/23*

## Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *ju 5/26/23*

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

## 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes	Yogi		

## Chain-of-Custody Record

Client: Hilcorp Energy

Mailing Address: 382 CR 3100 Aztec NM 87410

Phone #: 505.599.3400  
[kkaufman@hilcorp.com](mailto:kkaufman@hilcorp.com)  
[etrujillo@hilcorp.com](mailto:etrujillo@hilcorp.com)

email or Fax#:

QA/QC Package:  
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance  
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

X Standard Rush

Project Name:

Huerfano 309

Project #:

Project Manager:

Kate Kaufman

Sampler: F Trujillo

On Ice: ☒ Yes ☐ No 4000

# of Coolers: 1

Cooler Temp (including CF): 49-0.2-4.7

Container  
Type and #Preservativ  
e Type

HEAL No.

2305DL63

Date	Time	Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	TPH MRO/DRO/GRO, 8015M	BTEX, 8021 B	Chlorides, 300.0	RCRA 8 Metals	Electric Conductivity	SAR								
5/25/2023	9:50	Soil	Base 1 (10 ft BGL)	4 oz glass/1	Cold	001	x	x	x											
5/25/2023	9:57	Soil	Base 2 (10 ft BGL)	4 oz glass/1	Cold	002	x	x	x											
5/25/2023	10:00	Soil	Base 3 (8 ft BGL)	4 oz glass/1	Cold	003	x	x	x											
5/25/2023	10:05	Soil	Base 4 (5 ft BGL)	4 oz glass/1	Cold	004	x	x	x											
5/25/2023	10:07	Soil	Base 5 (8 ft BGL)	4 oz glass/1	Cold	005	x	x	x											
5/25/2023	10:12	Soil	Wall 1 (10 ft BGL)	4 oz glass/1	Cold	006	x	x	x											
5/25/2023	10:17	Soil	Wall 2 (10 ft BGL)	4 oz glass/1	Cold	007	x	x	x											
5/25/2023	10:20	Soil	Wall 3 (8 ft BGL)	4 oz glass/1	Cold	008	x	x	x											
5/25/2023	10:24	Soil	Wall 4 (5 ft BGL)	4 oz glass/1	Cold	009	x	x	x											
5/25/2023	10:27	Soil	Wall 5 (8 ft BGL)	4 oz glass/1	Cold	010	x	x	x											
5/25/2023	10:30	Soil	Wall 6 (8 ft BGL)	4 oz glass/1	Cold	011	x	x	x											
5/25/2023	10:34	Soil	Wall 7 (8 ft BGL)	4 oz glass/1	Cold	012	x	x	x											
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks:													
5/25/23	1623	<i>[Signature]</i>	<i>[Signature]</i>		5/25/23	1623	Page 1/2													
5/25/23	1804	<i>[Signature]</i>	<i>[Signature]</i>		5/26/23	6:55														

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





**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 233108

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 233108
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/27/2023