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	NAPP2320149561
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) nAPP2320149561
Contact mailing address: 1111 Travis St. Houston, TX 77471	

### **Location of Release Source**

Latitude 36.695036

Longitude -107.873901\_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Romero Gas Com A #1	Site Type: Well Site
Date Release Discovered: 2/10/2023	API# (if applicable) 30-045-25509

Unit Letter	Section	Township	Range	County
K	27	029N	010W	San Juan

Surface Owner: State Federal Tribal Private (Name: Carl and Barbara Padilla Trust\_\_\_\_\_)

### Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls) 0	
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls) 0	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Unknown hydrocarbon	Estimated 5.3 bbls	5.3 bbls	
Cause of Release		1	

Historic release discovered during BGT removal operations. Initial BGT closure sample was collected on 2/8/2023 and results were received on 2/10/2023. Hilcorp proceeded with delineation and determined an estimated release volume on 7/13/2023.

Page 2

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	

### **Initial Response**

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

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:Kate Kaufman	Title:Environmental Specialist
Signature: Kathyrutkaufm-	Date:7/20/2023
email:kkaufman@hilcorp.com	Telephone:346-237-2275
OCD Only	
Received by:	Date:

Received by OCD: 8/8/2023 12:43:57 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

Incident ID	NAPP2320149561
District RP	
Facility ID	
Application ID	

Page 3 of 35

### Site Assessment/Characterization

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

	1
What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{<50^{\circ}}{\text{has}}$ (ft
Did this release impact groundwater or surface water?	bgs)
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No ☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🛛 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🛛 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	$\square Yes \boxtimes No$
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes No
	$\square$ Yes $\bowtie$ 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

 $\boxtimes$  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.

Received by OCD.	: 8/8/2023 12:43:57 PM State of New Mexico		<b>Page 4 of 35</b>
		Incident ID	NAPP2320149561
Page 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
regulations all ope public health or th failed to adequate addition, OCD acc and/or regulations Printed Name: Signature:	at the information given above is true and complete to the best of my knowledge erators are required to report and/or file certain release notifications and perform of the environment. The acceptance of a C-141 report by the OCD does not relieve the ly investigate and remediate contamination that pose a threat to groundwater, surf- ceptance of a C-141 report does not relieve the operator of responsibility for comp s. 	corrective actions for rele he operator of liability sh face water, human health pliance with any other fe al Specialist	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by: <u>Sh</u>	nelly Wells Date: <u>8/8/</u>	/2023	

Page 6

Oil Conservation Division

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 must be notified 2 days prior to liner inspection)	office
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 OC and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases w may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liabilit should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface w 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: Kathrvn H. Kaufman Title: _Environmental Specialist mail: kkaufman@hilcorp.com Telephone: _346-237-2275 mail: kkaufman@hilcorp.com	vhich y ater,
OCD Only       Received by: Shelly Wells       Date: 8/8/2023	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investi remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the response party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: <u>Nelson Velez</u> Date: <u>11/07/2023</u>	
Printed Name: Nelson Velez Title:Environmental Specialist - Adv	

# Executive Summary – Incident #nAPP2320149561

Hilcorp removed a below ground tank (BGT) at the Romero Gas Com A #1 wellsite (API 30-045-25509) on February 8, 2023. The closure sample results were above permit limits and above the NMOCD action criteria in NMAC 19.15.29 Table 1 for total petroleum hydrocarbons (TPH).

Hilcorp proceeded with delineation and removed approximately 5 yds<sup>3</sup> of clean and potentially impacted soil from the excavation. Impacted material will be hauled offsite for disposal. All excavation was within the BGT ring. The historic hydrocarbon release volume was estimated to be approximately 5 bbls. Release volume estimate attached.

Five-point composite samples were collected from the base and sidewalls on 6/1/2023 and 6/28/2023. 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: 36.695036 Long: -107.873901 Romero Gas Com A #1 Wellsite API: 30-045-25509



Historic Release





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### Page 8 of 35

# Depth to groundwater determination.

Estimated depth to groundwater at the Romero Gas Com A #1 wellsite is <50'. Note siting criteria for the Maddox Gas Com A #1, which is ~1,100' SW of the Romero Gas Com A #1 wellsite.

Lodestar Service		Pit Permit Siting Criteria	Client: Project: Revised:	XTO Energy Pit Permits 19-Nov-08	
V	.,	Information Sheet	Prepared by:	Devin Hencmann	
API#:		3004507786	USPLSS:	29N, 10W, 27M	
Name:	MADE	DOX GAS COM A #1	Lat/Long:	36.69276/-107.8768	
Depth to groundwater:		< 50'	Geologic formation:	Naciemento	
Distance to closest continuously flowing watercourse:	1,600' N	to the 'San Juan River'			
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	288' W to	o Munoz Canyon wash	1	8	
		F	Soil Type:	Entisols	
Permanent residence, school, hospital, institution or church within 300'	234' NE to	permanent residence			
		:	Annual Precipitation:	Bloomfield: 8.71", Farmington: 8.21", Otis 10.41"	
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	Historical daily max: Bloomfield (4.19")	
Any other fresh water well or spring within 1000'		No	•		
Within incorporated municipal boundaries		No	Attached Documents:	i-Waters report pdf	
Within defined municipal fresh water well field		No		Topo map pdf, Aerial pdf, Mines and Quarri Map pdf,i-Waters Ground Water Data Map pdf, FEMA flood zone map pdf	
Wetland within 500'		No	Mining Activity:	None	
Within unstable area		No			
Within 100 year flood	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 within 300 feet of a mapped wetland.

#### Released to Imaging: 11/7/2023 12:10:12 PM



### 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) but are within 1,000 ft of any freshwater water well or spring.

#### Released to Imaging: 11/7/2023 12:10:12 PM

# Data table of soil contaminant concentrations

					Rom	nero Gas Con	n A1 Labora	tory Results		P	1
Sample Name	Sample Date	Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
BGT Permit Closu	re Criteria < 50'	600	-	-	-	100	10	-		-	50
BGT Closure Sample	02/08/23	ND	120	58	<mark>55</mark>	233	ND	ND	ND	ND	ND
CS 01	06/01/23	NA	780	22	340	1142	ND	ND	ND	ND	ND
CS 02	06/01/23	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW 1	06/01/23	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS01A	06/28/23	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Confirmation samples were collected on 6/1/2023 and 6/28/2023 by Ensolum. Composite Sample (CS) 01 was over closure standards on 6/1/2023. Additional impacted soil was removed, and the final sample collected at CS 01 on 6/28/2023 was below NMOCD 19.15.29.12.D Table 1 closure criteria.

NA = Not Analyzed ND = Not Detected

# Field Sample Diagram

Two 5-point composite samples were collected on 6/2/2023 and 6/28/2023.



# Sample Photos – Post Excavation



# Sample Photos – Post Excavation



# Topographic Map



•

	ROM	RELEASE VOI ERO GAS CON P ENERGY CO	I Al	
This tool estin	mates a release volume ba	sed on the size a	nd concentration of a	dry excavation.
		Tool Inputs		٦
	Soil Density	99.8847369	6 Ibc/At	-
	Condensate Density	6.25905333		
	Exca	vation Paramet	ers	٦
	Average			
	Hydrocarbon Concentration	1040.7	5 mg/kg	
			4	-
	Length Width		ft	
	Depth		ft ft	
	Expansion Factor	00	8 %	
	Total Soil Volume		5 yds'	-
			C 105	
Choose the approp	riate column for the release	ed product		
	Crude Oil/Con	ndensate	Produ	ced Water
Hydrocarbon Concentration (Percent)	1 %	e e	9	9%
			100 - C	
CALCULATED SE	ILL VOLUME			1.000
Hydrocarbon Mass	14 <i>Ib</i>	5	1	4 Ibs
Hydrocarbon	224 ga			2 gal
	5.3 bi	bls		0 bbls
(Release) Volume				
(Release) Volume				
(Release) Volume		5.22	- 84. 0	
(Release) Volume		; - kilograms s - pounds	mg - milligrams yd - yard	

Analytical Data, Samples Collected 6/1/2023 and 6/28/2023

See attached Lab Reports.



June 13, 2023

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

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Romero GC A1

OrderNo.: 2306070

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/2/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Toluene

Ethylbenzene

Xylenes, Total

**Analytical Report** Lab Order 2306070

6/10/2023 1:28:00 PM

6/10/2023 1:28:00 PM

6/10/2023 1:28:00 PM

6/10/2023 1:28:00 PM

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/13/2023 Client Sample ID: CS01 Collection Date: 6/1/2023 10:30:00 AM

<b>Project:</b>	Romero GC A1		Collec	tion Date:	6/1/20	23 10:30:00 AM
Lab ID:	2306070-001	Matrix: SOIL	Rece	ived Date:	6/2/20	23 6:15:00 AM
Analyses		Result	RL Qua	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: PRD
Diesel F	Range Organics (DRO)	780	9.6	mg/Kg	1	6/8/2023 1:03:59 AM
Motor O	il Range Organics (MRO)	340	48	mg/Kg	1	6/8/2023 1:03:59 AM
Surr:	DNOP	91.1	69-147	%Rec	1	6/8/2023 1:03:59 AM
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analyst: KMN
Gasolin	e Range Organics (GRO)	22	4.8	mg/Kg	1	6/10/2023 1:28:00 PM
Surr:	BFB	184	15-244	%Rec	1	6/10/2023 1:28:00 PM
EPA ME	THOD 8021B: VOLATILES					Analyst: KMN
Benzen	e	ND	0.024	mg/Kg	1	6/10/2023 1:28:00 PM

ND

ND

0.34

0.048

0.048

0.097

mg/Kg

mg/Kg

mg/Kg

1

1

1

%Rec Surr: 4-Bromofluorobenzene 139 39.1-146 1

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

**Qualifiers:** 

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

Reporting Limit

Page 1 of 7

Analytical Report Lab Order 2306070

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/13/2023 Client Sample ID: CS02 Collection Date: 6/1/2023 10:45:00 AM

Project:	Romero GC A1		Colle	ection Date:	6/1/20	23 10:45:00 AM
Lab ID:	2306070-002	Matrix: SOIL	Rec	eived Date:	6/2/20	23 6:15:00 AM
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRD
Diesel R	Range Organics (DRO)	ND	9.4	mg/Kg	1	6/8/2023 1:25:39 AM
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	6/8/2023 1:25:39 AM
Surr:	DNOP	76.4	69-147	%Rec	1	6/8/2023 1:25:39 AM
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst: KMN
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 1:49:00 PM
Surr:	BFB	103	15-244	%Rec	1	6/10/2023 1:49:00 PM
EPA ME	THOD 8021B: VOLATILES					Analyst: KMN
Benzene	e	ND	0.024	mg/Kg	1	6/10/2023 1:49:00 PM
Toluene		ND	0.048	mg/Kg	1	6/10/2023 1:49:00 PM
Ethylber	nzene	ND	0.048	mg/Kg	1	6/10/2023 1:49:00 PM
Xylenes	, Total	ND	0.096	mg/Kg	1	6/10/2023 1:49:00 PM
Surr:	4-Bromofluorobenzene	95.6	39.1-146	%Rec	1	6/10/2023 1:49:00 PM

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

**Qualifiers:** 

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

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 2 of 7

Romero GC A1 2306070-003

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306070

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/13/2023 Client Sample ID: SW1

Collection Date: 6/1/2023 10:50:00 AM Received Date: 6/2/2023 6:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/7/2023 3:37:23 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/7/2023 3:37:23 PM
Surr: DNOP	89.9	69-147	%Rec	1	6/7/2023 3:37:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/7/2023 10:03:35 PM
Surr: BFB	66.1	15-244	%Rec	1	6/7/2023 10:03:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	6/9/2023 12:46:04 PM
Toluene	ND	0.046	mg/Kg	1	6/9/2023 12:46:04 PM
Ethylbenzene	ND	0.046	mg/Kg	1	6/9/2023 12:46:04 PM
Xylenes, Total	ND	0.092	mg/Kg	1	6/9/2023 12:46:04 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146	%Rec	1	6/9/2023 12:46:04 PM

Matrix: SOIL

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

**Qualifiers:** 

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

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL
  - Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 3 of 7

	ORP ENERGY ro GC A1								
Sample ID: LCS-75370	SampType: I	.CS	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch ID: 7	5370	F	RunNo: <b>97</b>	270				
Prep Date: 6/6/2023	Analysis Date:	6/7/2023	S	SeqNo: 35	533132	Units: mg/k	٢g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54 1	0 50.00	0	108	61.9	130			
Surr: DNOP	5.4	5.000		108	69	147			
Sample ID: LCS-75399	SampType: I	.cs	Tes	tCode: EF	A Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch ID: 7	5399	F	RunNo: <b>97</b>	270				
Prep Date: 6/6/2023	Analysis Date:	6/7/2023	5	SeqNo: 35	533133	Units: mg/h	٢g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48 1	0 50.00	0	95.8	61.9	130			
Surr: DNOP	4.3	5.000		86.4	69	147			
Sample ID: <b>MB-75370</b>	SampType:	//BLK	Tes	tCode: EF	A Method	8015M/D: Di	esel Range	e Organics	
Sample ID: MB-75370 Client ID: PBS	SampType: I Batch ID: 7			tCode: EF RunNo: 97		8015M/D: Di	esel Range	e Organics	
		5370	F		270	8015M/D: Di Units: mg/ł	-	e Organics	
Client ID: PBS	Batch ID: 7	'5370 6/7/2023	F	RunNo: <b>97</b> SeqNo: <b>35</b>	7270 533136		-	e Organics RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO)	Batch ID: 7 Analysis Date:	7 <b>5370</b> 6/7/2023 . SPK value	F	RunNo: <b>97</b> SeqNo: <b>35</b>	7270 533136	Units: <b>mg/ł</b>	۲	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: 7 Analysis Date: Result PQL	<b>5370</b> 6/7/2023 . SPK value 0	F	RunNo: 97 SeqNo: 35 %REC	7270 533136 LowLimit	Units: <b>mg/k</b> HighLimit	۲	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO)	Batch ID: 7 Analysis Date: Result PQL ND 1	7 <b>5370</b> 6/7/2023 . SPK value 0	F	RunNo: <b>97</b> SeqNo: <b>35</b>	7270 533136	Units: <b>mg/ł</b>	۲	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5	25370 6/7/2023 . SPK value 0 0 10.00	F S SPK Ref Val	RunNo: 97 SeqNo: 35 %REC 109	2270 533136 LowLimit 69	Units: <b>mg/k</b> HighLimit	(g %RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5 11	<b>5370</b> 6/7/2023 . SPK value 0 10.00 <b>//BLK</b>	F SPK Ref Val Tes	RunNo: 97 SeqNo: 35 %REC 109	2270 533136 LowLimit 69 24 Method	Units: <b>mg/F</b> HighLimit 147	(g %RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-75399</b>	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5 11 SampType: <b>1</b>	<b>5370</b> 6/7/2023 SPK value 0 10.00 10.00 MBLK 75399	F SPK Ref Val Tes F	RunNo: 97 SeqNo: 35 %REC 109 tCode: EF	2270 533136 LowLimit 69 24 Method 7270	Units: <b>mg/F</b> HighLimit 147	Kg %RPD esel Range	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-75399</b> Client ID: <b>PBS</b>	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5 11 SampType: 1 Batch ID: 7	<b>5370</b> 6/7/2023 . SPK value 0 10.00 10.00 <b>//BLK</b> 5399 6/7/2023	F SPK Ref Val Tes F	RunNo: 97 SeqNo: 35 %REC 109 tCode: EF RunNo: 97 SeqNo: 35	2270 533136 LowLimit 69 24 Method 2270 533137	Units: mg/ł HighLimit 147 8015M/D: Di	Kg %RPD esel Range	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-75399</b> Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO)	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5 11 SampType: 1 Batch ID: 7 Analysis Date:	<ul> <li>'5370</li> <li>6/7/2023</li> <li>SPK value</li> <li>0</li> <li>10.00</li> <li>MBLK</li> <li>'5399</li> <li>6/7/2023</li> <li>SPK value</li> </ul>	F SPK Ref Val Tes F	RunNo: 97 SeqNo: 35 %REC 109 tCode: EF RunNo: 97 SeqNo: 35	2270 533136 LowLimit 69 24 Method 2270 533137	Units: <b>mg//</b> HighLimit 147 <b>8015M/D: Di</b> Units: <b>mg//</b>	(g %RPD esel Rango	RPDLimit	
Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-75399</b> Client ID: <b>PBS</b> Prep Date: <b>6/6/2023</b> Analyte	Batch ID: 7 Analysis Date: Result PQL ND 1 ND 5 11 SampType: 1 Batch ID: 7 Analysis Date: Result PQL	25370 6/7/2023 . SPK value 0 0 10.00 MBLK 25399 6/7/2023 . SPK value 0	F SPK Ref Val Tes F	RunNo: 97 SeqNo: 35 %REC 109 tCode: EF RunNo: 97 SeqNo: 35	2270 533136 LowLimit 69 24 Method 2270 533137	Units: <b>mg//</b> HighLimit 147 <b>8015M/D: Di</b> Units: <b>mg//</b>	(g %RPD esel Rango	RPDLimit	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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

WO#: 2306070 13-Jun-23

Client:HILCORProject:Romero (	P ENERGY GC A1								
Sample ID: Ics-75382	SampType: LCS	6	Test	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 753	82	R	RunNo: <b>97</b>	264				
Prep Date: 6/6/2023	Analysis Date: 6/7	/2023	S	SeqNo: 35	33433	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	96.8	70	130			
Surr: BFB	5200	1000		517	15	244			S
Sample ID: mb-75382	SampType: MB	LK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 753	82	R	RunNo: <b>97</b>	264				
Prep Date: 6/6/2023	Analysis Date: 6/7	/2023	S	SeqNo: <b>35</b>	33434	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	860	1000		86.0	15	244			
Sample ID: 2306070-003ams	SampType: <b>MS</b>		Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: SW1	Batch ID: 753	82	R	RunNo: <b>97</b>	264				
Prep Date: 6/6/2023	Analysis Date: 6/8	/2023	S	SeqNo: <b>35</b>	33436	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 4.6	22.94	0	92.6	70	130			
Surr: BFB	4700	917.4		512	15	244			S
Sample ID: 2306070-003amsd	SampType: MS	D	Test	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: SW1	Batch ID: 753	82	R	RunNo: <b>97</b>	264				
Prep Date: 6/6/2023	Analysis Date: 6/8	/2023	S	SeqNo: <b>35</b>	33437	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 4.6	23.00	0	93.2	70	130	0.965	20	
Surr: BFB	4700	920.0		508	15	244	0	0	S
Sample ID: Ics-75364	SampType: LCS	6	Test	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 753	64	R	RunNo: <b>97</b>	349				
Prep Date: 6/5/2023	Analysis Date: 6/1	0/2023	S	SeqNo: <b>35</b>	37188	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	91.7	70	130			
Surr: BFB	2100	1000		206	15	244			
Sample ID: mb-75364	SampType: <b>MB</b>	LK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 753	64	R	RunNo: <b>97</b>	349				
Prep Date: 6/5/2023	Analysis Date: 6/1	0/2023	S	SeqNo: 35	37189	Units: mg/K	g		

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of 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 5 of 7

2306070

13-Jun-23

WO#:

	HILCORP ENERC Romero GC A1	θY								
Sample ID: mb-753	64 Samp	Туре: М	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Bato	h ID: <b>75</b>	364	F	RunNo: <b>9</b>	7349				
Prep Date: 6/5/202	23 Analysis I	Date: 6/	10/2023	S	SeqNo: 3	537189	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) ND	5.0								
Surr: BFB	960		1000		96.1	15	244			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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

2306070

13-Jun-23

WO#:

**Client:** 

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

HILCORP ENERGY

Project: Romer	o GC A1									
Sample ID: LCS-75382	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 753	382	F	RunNo: 9	7264				
Prep Date: 6/6/2023	Analysis D	ate: 6/3	7/2023	S	SeqNo: 3	533459	Units: <b>mg/k</b>	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.025	1.000	0	77.0	70	130			
Toluene	0.78	0.050	1.000	0	77.8	70	130			
Ethylbenzene	0.79	0.050	1.000	0	78.6	70	130			
Xylenes, Total	2.4	0.10	3.000	0	79.0	70	130			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	39.1	146			
Sample ID: mb-75382	SampT	ype: <b>MB</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 753	382	F	RunNo: <b>9</b>	7264				
Prep Date: 6/6/2023	Analysis D	ate: 6/	7/2023	S	SeqNo: 3	533460	Units: mg/k	(g		
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	0.84		1.000		84.4	39.1	146			
Sample ID: Ics-75364	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 753	364	F	RunNo: <b>9</b>	7289				
Prep Date: 6/5/2023	Analysis D	ate: 6/8	8/2023	S	SeqNo: 3	534107	Units: <b>mg/#</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	70	130			
Toluene	0.83	0.050	1.000	0	83.0	70	130			
Ethylbenzene	0.81	0.050	1.000	0	80.7	70	130			
Xylenes, Total	2.4	0.10	3.000	0	79.6	70	130			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.5	39.1	146			
Sample ID: mb-75364	SampT	ype: <b>MB</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 753	364	F	RunNo: <b>9</b>	7289				
Prep Date: 6/5/2023	Analysis D	ate: 6/8	8/2023	S	SeqNo: 3	534108	Units: <b>mg/k</b>	(g		
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	0.82		1.000		81.7	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 Quanitative 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 7 of 7

Page 25 of 35

2306070

13-Jun-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TE	L: 505-345-3	ntal Analysis Lab 4901 Hawl Albuquerque. NM 975 FAX: 505-34 v.hallenvironmen	kins NE (87109 <b>San</b> 5-4107	nple Log-In Che	ck List
Client Name: Hilcorp Energy	Work	Order Num	ber: 2306070		RcptNo: 1	
Received By: Tracy Casarrubias Completed By: Tracy Casarrubias		3 6:15:00 A 3 7:06:18 A				
Reviewed By: JN 6/2/2	3					
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 s	samples?		Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a ten	nperature of >0° C	to 6.0°C	Yes 🗹	No 🗌	NA 🗔	
5. Sample(s) in proper container(s)?			Yes 🗹	No 🗌		
6. Sufficient sample volume for indica	ted test(s)?		Yes 🔽	No 🗌		
7. Are samples (except VOA and ON		ed?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?			Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with heads	pace <1/4" for AQ V	(OA?	Yes	No 🗌	NA 🔽	,
10. Were any sample containers recei		0.11	Yes	No 🗹		/
11. Does paperwork match bottle label			Yes 🗹	No 🗌	# of preserved bottles checked for pH:	
(Note discrepancies on chain of cu					(2 or >12) Adjusted?	unless noted)
12. Are matrices correctly identified on			Yes 🗹	No 🗌	Aujusteu?	
13. Is it clear what analyses were required and the set of the set			Yes 🗹 Yes 🗹	No 🗌 No 🗌	Checked by: TMc	6/2/23
14. Were all holding times able to be m (If no, notify customer for authoriza			Yes 🗹		Chicolica by: [[Vite	Geres
Special Handling (if applicable	<u>e)</u>			-		
15. Was client notified of all discrepan	cies with this order?	?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:		Date	Γ			
By Whom:		Via:	eMail	Phone 🗌 Fax	In Person	
Regarding: Client Instructions: Mailing	address and phone	number are	missing on CO	C- TMC 6/2		
16. Additional remarks:						
17. Cooler Information				o		
Cooler No Temp °C Cond 1 5.3 Good	ition Seal Intact Yes	Seal No Yogi	Seal Date	Signed By	3	
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Chain-of	Chain-of-Custody Record	Turn-Around Tim	ime:					IAI	-	Z	E	0	NME	HALL ENVIRONMENTAL	_
Client: HEC	(Hilcorp)	函 Standard	□ Rush					Z	E	SI	S	A	OR	ANALYSIS LABORATORY	۲
KORE KAU		Project Name:						www	halle	nviro	nmer	www.hallenvironmental.com	E		
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		Project #:				Tel.	505-3	505-345-3975	75	Fa)	505	Fax 505-345-4107	4107		
Phone #:									An	alysi	s Rec	Analysis Request			
email or Fax#: <i>ドド</i> ゥ	email or Fax#: <i>KKaU + møn © hillcorp - Ce</i> n	Project Manager:	jer:							700		(Jn9			
QA/QC Package:		Stuart	re Hyde	· Ensolum	-			SWIS		<sup>17</sup> Oc	-	sdA\J			
K Standard	🗆 Level 4 (Full Validation)									5'		uə			_
	□ Az Compliance	Sampler: E. Co	Carroll								(\	_			
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Date Time Matrix	trix Sample Name	Container Type and #	Preservative Type	HEAL NO. 2306070	BTEX	8:H9T	1 1808 9 8081 1	sНАЧ	чяря	6360 (	8520 0	Total			
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DCLI CON/1/2	service with of behavioration of the latence of the latence with the latence with the latence with the latence of the latence	therefore to other		U 12/23 List serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	is possit	ilitv. Ar	N sub-c	ontracte	d data v	vill be o	learly n	otated c	n the analy	ical report.	
If necessary, san	Ples submitted to Hall Environmentation vo s	איייייי יייייייי	הרו בתוובת והיהו היו												

Released to Imaging: V1/7/2023 12:10:12 PM

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July 05, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Romero GC 1

OrderNo.: 2306F11

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/29/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Romero GC 1

Project:

**Analytical Report** Lab Order 2306F11

Date Reported: 7/5/2023

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: CSO1A Collection Date: 6/28/2023 10:15:00 AM oired Data, 6/20/2022 7:00:00 AM ъ

Lab ID: 2306F11-001	Matrix: SOIL	Rece	eived Date:	6/29/2	2023 7:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/3/2023 1:44:03 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/3/2023 1:44:03 PM
Surr: DNOP	94.0	69-147	%Rec	1	7/3/2023 1:44:03 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2023 7:34:00 PM
Surr: BFB	97.2	15-244	%Rec	1	7/3/2023 7:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/3/2023 7:34:00 PM
Toluene	ND	0.049	mg/Kg	1	7/3/2023 7:34:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2023 7:34:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/3/2023 7:34:00 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146	%Rec	1	7/3/2023 7:34:00 PM

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

**Qualifiers:** 

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

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 4

Client: HILCOF Project: Romero	RP ENERG GC 1	Y								
Sample ID: LCS-75963	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 759	963	F	RunNo: <b>97</b>	7898				
Prep Date: 7/3/2023	Analysis D	ate: 7/	3/2023	S	SeqNo: 35	561773	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.2	61.9	130			
Surr: DNOP	4.5		5.000		90.4	69	147			
Sample ID: MB-75963	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 759	963	F	RunNo: <b>97</b>	7898				
Prep Date: 7/3/2023	Analysis D	ate: 7/3	3/2023	5	SeqNo: 35	561774	Units: mg/K	g		
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	8.8		10.00		88.0	69	147			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 2 of 4

2306F11

05-Jul-23

WO#:

Client:HILCOProject:Romero	RP ENERGY GC 1	ř								
Sample ID: Ics-75950	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	1	
Client ID: LCSS	Batch	ID: 759	950	F	RunNo: <b>97</b>	902				
Prep Date: 6/30/2023	Analysis D	ate: 7/3	3/2023	S	SeqNo: 35	61967	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	70	130			
Surr: BFB	2000		1000		203	15	244			
Sample ID: mb-75950	SampT	ype: MB	LK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range	!	
Client ID: PBS	Batch	ID: 759	950	F	RunNo: <b>97</b>	902				
Prep Date: 6/30/2023	Analysis D	ate: 7/3	3/2023	S	SeqNo: 3	61968	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	15	244			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 3 of 4

2306F11

05-Jul-23

WO#:

	ORP ENERG ro GC 1	Y								
Sample ID: Ics-75950		Type: LC	6	Too	tCodo: EF	A Mothod	8021B: Volati			
							OUZIE: VOIAti	les		
Client ID: LCSS	Batc	h ID: 759	950	ŀ	RunNo: 97	7902				
Prep Date: 6/30/2023	Analysis [	Date: 7/3	3/2023	S	SeqNo: 35	561991	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.5	70	130			
Toluene	0.91	0.050	1.000	0	90.5	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.9	70	130			
Xylenes, Total	2.7	0.10	3.000	0	91.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			
Sample ID: mb-75950	Samp	Туре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 759	950	F	RunNo: <b>97</b>	7902				
Prep Date: 6/30/2023	Analysis [	Date: 7/3	3/2023	S	SeqNo: 35	561992	Units: mg/K	g		
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	0.91		1.000		91.5	39.1	146			

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J
- Р
- RL Reporting Limit

Page 4 of 4

2306F11

05-Jul-23

WO#:

Analyte detected below quantitation limits

- Sample pH Not In Range

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins N Iquerque, NM 871	ve 09 <b>San</b> 07	nple Log-In Check List
Client Name: HILCORP ENERGY	Work Order Number:	2306F11		RcptNo: 1
Received By:Tracy CasarrubiasCompleted By:Cheyenne CasonReviewed By:WB 4/29/23	6/29/2023 7:00:00 AM 6/29/2023 9:28:09 AM		Chenl	
<ul><li><u>Chain of Custody</u></li><li>1. Is Chain of Custody complete?</li><li>2. How was the sample delivered?</li></ul>		Yes 🗹 Courier	No 🗌	Not Present
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	
4. Were all samples received at a temperature of	f ≥0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
<ol> <li>Sufficient sample volume for indicated test(s)</li> <li>Are samples (except VOA and ONG) properly</li> </ol>		Yes 🗹 Yes 🗹	No 🗌 No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
<ul><li>9. Received at least 1 vial with headspace &lt;1/4"</li><li>10. Were any sample containers received broker</li></ul>		Yes 🗌 Yes 🗌	No 🗌 No 🗹	NA # of preserved
<ul> <li>11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>12. Are matrices correctly identified on Chain of C</li> <li>13. Is it clear what analyses were requested?</li> </ul>	Sustody?	Yes ♥ Yes ♥ Yes ♥	No 🗌 No 🗌 No 🗌	bottles checked for pH: Adjusted?
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: SCM 0.00(291) 73
<u>Special Handling (if applicable)</u>				
15. Was client notified of all discrepancies with t	nis order?	Yes	No 🗌	
Person Notified: By Whom: Regarding: Client Instructions:	Date:   Via: [	] eMail 🔄 Pho	one 🗌 Fax	In Person
<ul> <li>16. Additional remarks:</li> <li>17. <u>Cooler Information</u> <ul> <li>Cooler No</li> <li>Temp °C</li> <li>Condition</li> <li>Se</li> <li>1</li> <li>2.6</li> <li>Good</li> <li>Yes</li> </ul> </li> <li>Page 1 of 1</li> </ul>	al Intact Seal No S Yogi	Seal Date S	igned By	L ] In Person

Page 33 of 35

Μd
13:57
3 12:4
202
): 8/8
OCL
by
eived
Rec

eceived by OCD: 8/8/2023 12:43:57 PM		Page 34 of 35
Chain-of-Custody Record	Turn-Around Time:	
Client: Hilcora	⊠ Standard □ Rush	
ALLN: KOLF KOLLMOND	Project Name:	www.hallenvironmental.com
Iress:	Romaro GC I	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: KKaukmann @ h.Icerp. COM	Project Manager:	<sup>⊅</sup> OS
QA/QC Package: 🗷 Standard 🛛 🗖 Level 4 (Full Validation)	Stuart Hyde - Ensolum	bO <sup>41</sup> SWISC bCB, <sup>2</sup>
on: 🗆 Az Cor	Sampler: E. Confroll	рд / О 8/808/2 758 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 2
		(GR sides 310 5 310 6 310 6 35 10 3 1 1-VO
	Cooler Temp(Including CF): 2.6 - 2.6 (°C)	15D litse Jetho 8 W 8 8 M 8 8 M 8 7 7 7 0 7 0 7 0 7 0 7 0
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type	BTEX/ TPH:80 8081 P CI, F, E 8260 (/ 8250 (/ 8250 (/ 70tal C (/ 70tal C
1:05 51:0 8	C091	
	and the first state	
Time:	Via:	
(7/1 2	NG	2 CC: ecorrolle ensolum.com
Date: Time: Relinquished by:		
domalos submitted to Hall Environm	whose the other accredited laboratories. This serves as notice of this	ential mary he subcentrated to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging, 11/7/2023 12:10:12 PM

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	249621
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	11/7/2023

Page 35 of 35

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Action 249621