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

State of New Mexico Energy Minerals and Natural Resources Department

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

Page 1 of 46

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

Location of Release Source

Latitude 36.590745

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Riddle Gas Com A #1R	Site Type: Well Site
Date Release Discovered: 8/25/2022	API# (if applicable) 30-045-31138

Unit Letter	Section	Township	Range	County
G	09	027N	009W	San Juan

Surface Owner: State Federal Tribal Private (Name: Shatasha Coffman_____)

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)
Produced Water	Volume Released (bbls) 3.0	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 13.36	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		
Causa of Palaasa		

Cause of Release

Hilcorp operator discovered release due to corrosion around the man door on an above ground tank. The tank was emptied and will undergo an integrity inspection and coating before being put back into service.

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	
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

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: Kathyrutkaufn-	Date:9/1/2022
email:kkaufman@hilcorp.com	Telephone:346-237-2275
OCD Only	
Received by:	Date:

Page 2

Received by OCD: 1/12/2023 2:19:10 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 3 of 4
Incident ID	NAPP2224436644
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.

	1	
What is the shallowest depth to groundwater beneath the area affected by the release?		
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?	$\square Yes \square No$	
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?		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No ☐ Yes ⊠ 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 not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No	
\mathbf{r}	🗌 Yes 🛛 No	

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/12/2023 Form C-141 Page 4	C-141 C-141 Oil Conservation Division		Page 4 of Incident ID NAPP2224436644 District PD Incident PD	
Tugo T			District RP Facility ID Application ID	
regulations all operators are rec public health or the environment failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name:Kathryn Signature: Kathryn email:kkaufman@hilco	ation given above is true and complete to the best quired to report and/or file certain release notific nt. The acceptance of a C-141 report by the OC and remediate contamination that pose a threat C-141 report does not relieve the operator of rest n H Kaufman Title: rp.com Tele	ations and perform co D does not relieve the to groundwater, surfa sponsibility for compl Environmental	prrective actions for rele e operator of liability sho ice water, human health liance with any other feo	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:Joc	elyn Harimon	Date: <u>01</u>	/12/2023	

Page 6

Incident ID	NAPP2224436644
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: Kattyrit Kaufur Date:1-12-2023
email: kkaufman@hilcorp.com Telephone: _346-237-2275
OCD Only
Received by: Jocelyn Harimon Date: 01/12/2023
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: Date: Date: Date:
—



January 05, 2023

Fasho Trujillo 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

OrderNo.: 2212E58

RE: Riddle Gas Com A 1R

Dear Fasho Trujillo:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/29/2022 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

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	HILCORP ENERGY		Client S	Sample ID:	Base #	ŧ1					
Project:	Riddle Gas Com A 1R	Collection Date: 12/27/2022 3:20:00 PM									
Lab ID:	2212E58-001	Matrix: SOIL	Rece	eived Date:	12/29/	2022 7:22:00 AM					
Analyses		Result	RL Qu	al Units	DF	Date Analyzed					
EPA MET	HOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: SB					
Diesel Ra	ange Organics (DRO)	670	14	mg/Kg	1	12/30/2022 3:56:23 PM					
Motor Oil	Range Organics (MRO)	420	46	mg/Kg	1	12/30/2022 3:56:23 PM					
Surr: D	NOP	118	21-129	%Rec	1	12/30/2022 3:56:23 PM					
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst: NSB					
Gasoline	Range Organics (GRO)	32	19	mg/Kg	5	12/29/2022 11:56:32 AM					
Surr: B	BFB	150	37.7-212	%Rec	5	12/29/2022 11:56:32 AM					
EPA MET	HOD 8021B: VOLATILES					Analyst: NSB					
Benzene		ND	0.097	mg/Kg	5	12/29/2022 11:56:32 AM					
Toluene		ND	0.19	mg/Kg	5	12/29/2022 11:56:32 AM					
Ethylbenz	zene	ND	0.19	mg/Kg	5	12/29/2022 11:56:32 AM					
Xylenes,	Total	1.0	0.39	mg/Kg	5	12/29/2022 11:56:32 AM					
Surr: 4	-Bromofluorobenzene	91.8	70-130	%Rec	5	12/29/2022 11:56:32 AM					
EPA MET	HOD 300.0: ANIONS					Analyst: JTT					
Chloride		ND	60	mg/Kg	20	12/30/2022 1:00:21 PM					

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

Qualifiers:

*

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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 12

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Base #2 **Project:** Riddle Gas Com A 1R Collection Date: 12/27/2022 3:30:00 PM Lab ID: 2212E58-002 Matrix: SOIL Received Date: 12/29/2022 7:22:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) 42 15 mg/Kg 1 12/30/2022 11:06:17 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 12/30/2022 11:06:17 AM Surr: DNOP %Rec 1 12/30/2022 11:06:17 AM 115 21-129 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/29/2022 12:20:21 PM 5.0 mg/Kg 1 Surr: BFB 95.9 37.7-212 %Rec 1 12/29/2022 12:20:21 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 12/29/2022 12:20:21 PM 1 Toluene ND 0.050 mg/Kg 1 12/29/2022 12:20:21 PM Ethylbenzene ND 0.050 mg/Kg 1 12/29/2022 12:20:21 PM Xylenes, Total ND 0.10 mg/Kg 1 12/29/2022 12:20:21 PM Surr: 4-Bromofluorobenzene 88.4 70-130 %Rec 1 12/29/2022 12:20:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 12/30/2022 2:02:05 PM 60 mg/Kg 20

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

Qualifiers:

D

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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 12

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall North **Project:** Riddle Gas Com A 1R Collection Date: 12/27/2022 3:35:00 PM Lab ID: 2212E58-003 Matrix: SOIL Received Date: 12/29/2022 7:22:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) 47 13 mg/Kg 1 12/29/2022 9:20:15 PM Motor Oil Range Organics (MRO) 200 43 mg/Kg 1 12/29/2022 9:20:15 PM Surr: DNOP %Rec 1 113 21-129 12/29/2022 9:20:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/29/2022 1:08:02 PM 3.6 mg/Kg 1 Surr: BFB 95.7 37.7-212 %Rec 1 12/29/2022 1:08:02 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.018 mg/Kg 12/29/2022 1:08:02 PM 1 Toluene ND 0.036 mg/Kg 1 12/29/2022 1:08:02 PM Ethylbenzene ND 0.036 mg/Kg 1 12/29/2022 1:08:02 PM Xylenes, Total ND 0.071 mg/Kg 1 12/29/2022 1:08:02 PM Surr: 4-Bromofluorobenzene 89.2 70-130 %Rec 1 12/29/2022 1:08:02 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 12/30/2022 2:14:27 PM 60 mg/Kg 20

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

Qualifiers:

D

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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 12

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: West Wall 1N **Project:** Riddle Gas Com A 1R Collection Date: 12/27/2022 3:45:00 PM Lab ID: 2212E58-004 Matrix: SOIL Received Date: 12/29/2022 7:22:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) 50 14 mg/Kg 1 12/30/2022 4:43:43 PM Motor Oil Range Organics (MRO) 71 46 mg/Kg 1 12/30/2022 4:43:43 PM Surr: DNOP 99.7 %Rec 1 12/30/2022 4:43:43 PM 21-129 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/29/2022 3:03:00 PM 3.7 mg/Kg 1 Surr: BFB 119 37.7-212 %Rec 1 12/29/2022 3:03:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.018 mg/Kg 12/29/2022 3:03:00 PM 1 Toluene ND 0.037 mg/Kg 1 12/29/2022 3:03:00 PM Ethylbenzene ND 0.037 mg/Kg 1 12/29/2022 3:03:00 PM Xylenes, Total ND 0.074 mg/Kg 1 12/29/2022 3:03:00 PM Surr: 4-Bromofluorobenzene 121 70-130 %Rec 1 12/29/2022 3:03:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 12/30/2022 2:26:48 PM 59 mg/Kg 20

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

Qualifiers:

D

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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 4 of 12

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: West Wall S1 **Project:** Riddle Gas Com A 1R Collection Date: 12/27/2022 3:55:00 PM Lab ID: 2212E58-005 Matrix: SOIL Received Date: 12/29/2022 7:22:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) 44 14 mg/Kg 1 12/29/2022 9:41:23 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 12/29/2022 9:41:23 PM Surr: DNOP %Rec 1 117 21-129 12/29/2022 9:41:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/29/2022 3:23:00 PM 3.9 mg/Kg 1 Surr: BFB 106 37.7-212 %Rec 1 12/29/2022 3:23:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.019 mg/Kg 12/29/2022 3:23:00 PM 1 Toluene ND 0.039 mg/Kg 1 12/29/2022 3:23:00 PM Ethylbenzene ND 0.039 mg/Kg 1 12/29/2022 3:23:00 PM Xylenes, Total ND 0.077 mg/Kg 1 12/29/2022 3:23:00 PM Surr: 4-Bromofluorobenzene 114 70-130 %Rec 1 12/29/2022 3:23:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 12/30/2022 2:39:08 PM 60 mg/Kg 20

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

Qualifiers:

D

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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 12

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: East Wall N1 **Project:** Riddle Gas Com A 1R Collection Date: 12/27/2022 4:10:00 PM Lab ID: 2212E58-006 Matrix: SOIL Received Date: 12/29/2022 7:22:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) 550 14 mg/Kg 1 12/29/2022 9:51:57 PM Motor Oil Range Organics (MRO) 290 46 mg/Kg 1 12/29/2022 9:51:57 PM Surr: DNOP 21-129 %Rec 1 113 12/29/2022 9:51:57 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 5 12/29/2022 3:43:00 PM 21 mg/Kg 5 Surr: BFB 137 37.7-212 %Rec 12/29/2022 3:43:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.11 mg/Kg 5 12/29/2022 3:43:00 PM Toluene 5 ND 0.21 mg/Kg 12/29/2022 3:43:00 PM Ethylbenzene ND 0.21 mg/Kg 5 12/29/2022 3:43:00 PM Xylenes, Total ND 0.42 mg/Kg 5 12/29/2022 3:43:00 PM Surr: 4-Bromofluorobenzene 120 70-130 %Rec 5 12/29/2022 3:43:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 12/30/2022 2:51:30 PM 60 mg/Kg 20

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

Qualifiers:

D

Value exceeds Maximum Contaminant Level. 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 6 of 12

Lab Order 2212E58 Date Reported: 1/5/2023

Client: Project:		ORP ENERGY e Gas Com A 1R	
Sample ID:	MB-72385	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 72385	RunNo: 93648
Prep Date:	12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380968 Units: mg/Kg
Analyte		Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-72385	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 72385	RunNo: 93648
Prep Date:	12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380969 Units: mg/Kg
Analyte		Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		15 1.5 15.0	00 0 96.7 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 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

2212E58

05-Jan-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	RP ENERG Gas Com A									
Sample ID: LCS-72368	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 72	368	F	RunNo: 9 3	8614				
Prep Date: 12/29/2022	Analysis D	Date: 12	2/29/2022	S	SeqNo: 33	378145	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.3	64.4	127			
Surr: DNOP	5.8		5.000		115	21	129			
Sample ID: MB-72368	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 72	368	F	RunNo: 9 3	8614				
Prep Date: 12/29/2022	Analysis E	Date: 12	2/29/2022	Ş	SeqNo: 33	378147	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	21	129			

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 8 of 12

2212E58

05-Jan-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	P ENERGY as Com A 1R										
Sample ID: mb	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range				
Client ID: PBS	Batch ID: A9	3633	F	RunNo: 93633							
Prep Date:	Analysis Date: 12	2/29/2022	S	SeqNo: 3	378840	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 940	1000		94.0	37.7	212					
Sample ID: 2.5ug gro Ics	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range				
Client ID: LCSS	Batch ID: A9	3633	F	RunNo: 9 3	3633						
Prep Date:	Analysis Date: 12	2/29/2022	S	SeqNo: 33	378841	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	25 5.0	25.00	0	102	72.3	137					
Surr: BFB	1900	1000		194	37.7	212					
Sample ID: 2212e58-001ams	SampType: MS	5	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range				
Client ID: Base #1	Batch ID: A9	3633	F	RunNo: 9 3	3633						
Prep Date:	Analysis Date: 12	2/29/2022	S	SeqNo: 33	378858	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	140 19	96.82	32.26	110	70	130					
Surr: BFB	9900	3873		255	37.7	212			S		
Sample ID: 2212e58-001amsd	SampType: MS	SD.	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range				
Client ID: Base #1	Batch ID: A9	3633	F	RunNo: 9 3	3633						
Prep Date:	Analysis Date: 12	2/29/2022	S	SeqNo: 33	378867	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	140 19	96.82	32.26	115	70	130	3.46	20			
Surr: BFB	10000	3873		257	37.7	212	0	0	S		
Sample ID: Ics-72341	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range				
Client ID: LCSS	Batch ID: 72	341	F	RunNo: 9 3	3636						
Prep Date: 12/28/2022	Analysis Date: 12	2/29/2022	S	SeqNo: 33	378986	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	26 5.0	25.00	0	104	72.3	137					
Surr: BFB	2300	1000		225	37.7	212			S		
Sample ID: mb-72341	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range				
Client ID: PBS	Batch ID: 72	341	F	RunNo: 9 3	3636						
Prep Date: 12/28/2022	Analysis Date: 12	2/29/2022	S	SeqNo: 33	378987	Units: mg/K	g				
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
- 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
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Р RL

Page 9 of 12

2212E58

05-Jan-23

	ORP ENERG e Gas Com A									
Sample ID: mb-72341	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	D: PBS Batch ID: 72341					8636				
Prep Date: 12/28/2022	Analysis [Date: 12	2/29/2022	5	SeqNo: 33	378987	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
asoline Range Organics (GRO) ND 5.										
Surr: BFB	1100		1000		113	37.7	212			

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

2212E58

05-Jan-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF Riddle Ga										
Sample ID:	mb	Samp	Гуре: МЕ	BLK	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: C9	3633	F	RunNo: 93					
Prep Date:		Analysis [Date: 12	2/29/2022	:	SeqNo: 3	378924	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual
Benzene		ND	0.025	SI IN Value		/orceo	LOWLINI	riignennit	701X1 D		Qua
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	0.90		1.000		89.6	70	130			
Sample ID:	100ng btex lcs	Samp	Гуре: LC	S	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: C9	3633	F	RunNo: 9 :	3633				
Prep Date:		Analysis [Date: 12	2/29/2022	:	SeqNo: 3	378925	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.88	0.025	1.000	0	87.7	80	120			
Toluene		0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene		0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total		2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Brom	ofluorobenzene	0.91		1.000		91.4	70	130			
Sample ID:	2212e58-002ams	Samp	Гуре: МS	5	TestCode: EPA Method 8021B: Volatiles						
Client ID:	Base #2	Batc	h ID: C9	3633	RunNo: 93633						
Prep Date:		Analysis [Date: 12	2/29/2022	:	SeqNo: 3	378929	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.83	0.025	1.006	0	82.9	68.8	120			
Toluene		0.86	0.050	1.006	0	86.0	73.6	124			
Ethylbenzene		0.88	0.050	1.006	0	87.0	72.7	129			
Xylenes, Total	<i></i>	2.6	0.10	3.018	0.01851	85.8	75.7	126			
Surr: 4-Brom	ofluorobenzene	0.90		1.006		89.9	70	130			
Sample ID:	2212e58-002amsd	Samp ⁻	Гуре: МS	5D	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	Base #2	Batc	h ID: C9	3633	F	RunNo: 9 :	3633				
Prep Date:		Analysis [Date: 12	2/29/2022	:	SeqNo: 3	378930	Units: mg/K	٢g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.006	0	86.1	68.8	120	3.72	20	
Toluene		0.88	0.050	1.006	0	87.5	73.6	124	1.80	20	
		0.00		1.006	0	88.2	72.7	129	1.31	20	
Ethylbenzene		0.89	0.050								
Xylenes, Total	ofluorobenzene	0.89 2.7 0.94	0.050	3.018 1.006	0.01851	87.4 93.9	75.7 70	126 130	1.88 0	20 0	

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- 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 11 of 12

2212E58

05-Jan-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		RP ENERG Gas Com A											
Sample ID: Ics	-72341	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LC	SS	Batch	n ID: 723	41	F	RunNo: 9 3	8636						
Prep Date: 12	2/28/2022	Analysis D	Date: 12	/29/2022	5	SeqNo: 33	379011	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		1.1	0.025	1.000	0	110	80	120					
Toluene		1.1	0.050	1.000	0	111	80	120					
Ethylbenzene		1.1	0.050	1.000	0	111	80	120					
Xylenes, Total		3.4	0.10	3.000	0	112	80	120					
Surr: 4-Bromoflue	orobenzene	1.2		1.000		124	70	130					
Sample ID: mb	o-72341	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les				
Client ID: PB	s	Batch	n ID: 723	41	F	RunNo: 9 3	8636						
Prep Date: 12	2/28/2022	Analysis D	Date: 12	/29/2022	S	SeqNo: 33	379012	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-Bromoflue	orobenzene	1.2		1.000		124	70	130					

Qualifiers:

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- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12

2212E58

05-Jan-23

WO#:

Released to Imaging: 3/23/2023 8:05:07 AM

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H	ALL NVIR NAL1	ONMENT	2:19:10 PM	TEL	L: 505-345-1	ental Analysis 4901 F Albuquerque, 3975 FAX: 503 w.hallenviron	awkins NE NM 87109 5-345-4107	Sample Log-In Check List				
Client Na	me:	HILCORP I	ENERGY	Work	Order Num	ber: 2212E	8		RcptNo:	1		
Received	By:	Cheyenne	Cason	12/29/20	022 7:22:0	0 AM	C	ent	inst.			
Completed		Sean Livir	• •		022 7:56:4	9 AM	<	Sal	not			
Reviewed	By:	7012/	29/22	>								
Chain of	Cus	tody										
1. Is Chai	n of C	ustody comp	lete?			Yes 🖌		No 🗌	Not Present			
2. How wa	as the	sample deliv	ered?			<u>Courier</u>						
Log In							3		🗂			
3. Was an	atterr	pt made to c	ool the samp	les?		Yes 🔽]	No 🗌	na 🗋			
4. Were al	l sam	oles received	at a tempera	ture of >0° C t	o 6.0°C	Yes 🗹]	No 🗌	NA 🗌			
5. Sample	e(s) in	proper contai	ner(s)?			Yes 🗹]	No 🗌				
6. Sufficier	nt sam	iple volume f	or indicated te	est(s)?		Yes 🔽	1	No 🗌				
7. Are sam	nples (except VOA	and ONG) pro	perly preserve	ed?	Yes 🗹	1	No 🗌				
8. Was pre	eserva	tive added to	bottles?			Yes	1	No 🔽	NA 🗌			
9. Receive	d at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No 🗌	NA 🗹			
10. Were a	ny sar	nple containe	ers received b	roken?		Yes 🗆		No 🗹	# of preserved			
11. Does pa	nerwo	ork match bot	tle labels?			Yes 🔽		No 🗌	for pH:			
	-		ain of custody)						>12 unless noted)		
12. Are mat	rices o	correctly iden	tified on Chai	n of Custody?		Yes 🖌	1	No 🗆	Adjusted?			
13. Is it clea	ar wha	t analyses we	ere requested	?		Yes 🔽	1	No 🗌		0		
		ng times able ustomer for a	e to be met? uthorization.)			Yes 🗹	1	No 🗌	Checked by:	R 12.29.2		
Special H	andl	ing (if app	olicable)									
15. Was cli	ent no	tified of all di	screpancies v	with this order?	•	Yes 🗌]	No 🗌	NA 🗹			
P	erson	Notified:	[-	Date	. J						
B	y Who	om:			Via:	🗌 eMail	Phone	🗌 Fax	In Person			
	legard											
C	lient li	nstructions:										
16. Additic	nal re	marks:										
17. <u>Coole</u>			ŧ.	\$	3	8	*		3			
Coo	ler No	Temp °C 2.2	Condition Good	Seal Intact Yes	Seal No	Seal Date	Sign	ed By	NOTATION IN CONTRACTOR OF			

Page 1 of 1

.



March 16, 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: Riddle GC A I R

OrderNo.: 2303484

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/9/2023 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

Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303484

Date Reported: 3/16/2023

2303484-001

Riddle GC A I R

Client Sample ID: South Sidewall Collection Date: 3/8/2023 2:00:00 PM

Matrix: MEOH (SOIL)

Received Date: 3/9/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	380	9.7	mg/Kg	1	3/9/2023 4:17:51 PM
Motor Oil Range Organics (MRO)	230	49	mg/Kg	1	3/9/2023 4:17:51 PM
Surr: DNOP	112	69-147	%Rec	1	3/9/2023 4:17:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BFR
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/9/2023 11:00:00 AM
Surr: BFB	90.0	37.7-212	%Rec	1	3/9/2023 11:00:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BFR
Benzene	ND	0.018	mg/Kg	1	3/9/2023 11:00:00 AM
Toluene	ND	0.035	mg/Kg	1	3/9/2023 11:00:00 AM
Ethylbenzene	ND	0.035	mg/Kg	1	3/9/2023 11:00:00 AM
Xylenes, Total	ND	0.071	mg/Kg	1	3/9/2023 11:00:00 AM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	3/9/2023 11:00:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	3/9/2023 10:26:45 AM

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 5

*

Client: Project:		CORP ENERGY dle GC A I R									
Sample ID:	MB-73604	SampTyp	e: mb	lk	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch I): 73 (604	F	RunNo: 95	5145				
Prep Date:	3/9/2023	Analysis Date	e: 3/	9/2023	S	SeqNo: 3 4	41856	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-73604	SampTyp	e: Ics		Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch II): 73 (604	F	RunNo: 95	5145				
Prep Date:	3/9/2023	Analysis Date	e: 3/	9/2023	5	SeqNo: 34	41857	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.0	90	110			

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- RL Reporting Limit

2303484

16-Mar-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF Riddle GC		Y								
Sample ID:	MB-73602	SampT	ype: ME	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 73	602	RunNo: 95144						
Prep Date:	3/9/2023	Analysis D	ate: 3/	9/2023	Ś	SeqNo: 34	140731	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		102	69	147			
Sample ID:	LCS-73602	SampT	ype: LC	s	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 73	602	F	RunNo: 9	5144				
Prep Date:	3/9/2023	Analysis D	ate: 3/	9/2023	S	SeqNo: 34	440732	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3		5.000		85.8	69	147			
Sample ID:	MB-73615	SampT	ype: ME	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 73	615	F	RunNo: 9	5144				
Prep Date:	3/9/2023	Analysis D	ate: 3/	9/2023	S	SeqNo: 34	441953	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	ND	10								
Motor Oil Rang Surr: DNOP	e Organics (MRO)	ND 9.9	50	10.00		99.0	69	147			
						33.0	09	147			
	LCS-73615		ype: LC					8015M/D: Die	sel Range	Organics	
Client ID:			ID: 73			RunNo: 9					
Prep Date:	3/9/2023	Analysis D	ate: 3/	9/2023		SeqNo: 34	141955	Units: mg/K	g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	Organics (DRO)	44 4.3	10	50.00 5.000	0	88.0 86.8	61.9 69	130 147			
	2303484-001AMS		ype: MS					8015M/D: Die	sel Range	Organics	
Client ID: Prep Date:	South Sidewall 3/9/2023	Analysis D	ID: 73			RunNo: 9 4 SeqNo: 3 4		Units: mg/K	'n		
	5/5/2023							•	•		Qual
Analyte	Organics (DRO)	Result 340	PQL 9.5	47.39	SPK Ref Val 381.8	%REC -91.1	LowLimit 54.2	HighLimit 135	%RPD	RPDLimit	Qual S
Surr: DNOP		5.5	0.0	4.739	001.0	116	69	147			0
Sample ID.	2303484-001AMSD	SamoT	ype: M \$	SD	Tes	stCode: FF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	South Sidewall		ID: 73			RunNo: 9			con nungo	9411100	
Prep Date:	3/9/2023	Analysis D				SeqNo: 34		Units: mg/K	g		
					SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Rer var	WREL.	I OWLITTIT		%RPD	RPDIMM	UUU

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2303484

16-Mar-23

WO#:

0-0-0-0

Client:	HILCORF	PENERG	Y								
Project:	Riddle GC	CAIR									
Sample ID:	2303484-001AMSD SampType: MSD					tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	South Sidewall	outh Sidewall Batch ID: 73615			F	RunNo: 95	5144				
Prep Date:	3/9/2023	Analysis D	ate: 3/	9/2023	S	SeqNo: 34	41995	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.7		4.960		114	69	147	0	0	

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Page 4 of 5

2303484

16-Mar-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORE	P ENERG	Y								
Project:	Riddle GC	CAIR									
Sample ID:	2.5ug gro lcs	Sampl	Гуре: LC	\$	Tes	tCode: EE	A Method	8015D: Gaso	line Range		
Client ID:	LCSS		h ID: GS			RunNo: 9 5		00100.0030	ine Range		
	LC35										
Prep Date:		Analysis E	Date: 3/9	9/2023	,	SeqNo: 34	40720	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	91.1	70	130			
Surr: BFB		2100		1000		213	37.7	212			S
Sample ID:	mb	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	PBS	Batcl	Batch ID: GS95142 RunNo: 95142								
Prep Date:		Analysis E	Date: 3/9	9/2023	S	SeqNo: 34	40721	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rand	ge Organics (GRO)	ND	5.0								
	J= = · J=		0.0								
Surr: BFB	, ,	1000	0.0	1000		101	37.7	212			
Surr: BFB	2303484-001ams	1000	Гуре: МS		Tes	-	-	212 8015D: Gaso	line Range		
Surr: BFB		1000 SampT		;		-	PA Method		line Range		
Surr: BFB	2303484-001ams	1000 SampT	Гуре: MS h ID: GS	95142	F	tCode: EF	PA Method		U		
Surr: BFB Sample ID: Client ID:	2303484-001ams	1000 SampT Batcl	Гуре: MS h ID: GS	95142 9/2023	F	tCode: EF	PA Method	8015D: Gaso	U	RPDLimit	Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte	2303484-001ams	1000 SampT Batcl Analysis E	Гуре: MS h ID: GS Date: 3/	95142 9/2023	F	atCode: EF RunNo: 95 SeqNo: 34	PA Method 5142 140725	8015D: Gaso Units: mg/K	g		Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte	2303484-001ams South Sidewall	1000 SampT Batcl Analysis E Result	Гуре: MS h ID: GS Date: 3/9 PQL	9 5142 9/2023 SPK value	F S SPK Ref Val	tCode: EF RunNo: 95 SeqNo: 34 %REC	PA Method 5142 140725 LowLimit	8015D: Gaso Units: mg/K HighLimit	g		Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	2303484-001ams South Sidewall	1000 SampT Batcl Analysis D Result 17 1400	Гуре: MS h ID: GS Date: 3/9 PQL	95142 9/2023 SPK value 17.72 708.7	F SPK Ref Val	tCode: EF RunNo: 99 SeqNo: 34 %REC 95.4 196	PA Method 5142 140725 LowLimit 70 37.7	8015D: Gaso Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	2303484-001ams South Sidewall ge Organics (GRO)	1000 SampT Batcl Analysis D Result 17 1400 SampT	Гуре: MS h ID: GS Date: 3/9 PQL 3.5	95142 9/2023 SPK value 17.72 708.7	F SPK Ref Val 0 Tes	tCode: EF RunNo: 99 SeqNo: 34 %REC 95.4 196	24 Method 5142 140725 LowLimit 70 37.7 24 Method	8015D: Gaso Units: mg/K HighLimit 130 212	g %RPD	RPDLimit	Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	2303484-001ams South Sidewall ge Organics (GRO) 2303484-001amsd	1000 SampT Batcl Analysis D Result 17 1400 SampT	Гуре: MS h ID: GS Date: 3/9 PQL 3.5 Гуре: MS h ID: GS	95142 9/2023 SPK value 17.72 708.7 5D 95142	F SPK Ref Val 0 Tes F	ttCode: EF RunNo: 98 SeqNo: 34 %REC 95.4 196 ttCode: EF	PA Method 5142 440725 LowLimit 70 37.7 PA Method 5142	8015D: Gaso Units: mg/K HighLimit 130 212	G %RPD	RPDLimit	Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	2303484-001ams South Sidewall ge Organics (GRO) 2303484-001amsd	1000 SampT Batcl Analysis D Result 17 1400 SampT Batcl	Гуре: MS h ID: GS Date: 3/9 PQL 3.5 Гуре: MS h ID: GS	95142 9/2023 SPK value 17.72 708.7 5D 95142 9/2023	F SPK Ref Val 0 Tes F	tCode: EF RunNo: 99 SeqNo: 34 %REC 95.4 196 tCode: EF RunNo: 99	PA Method 5142 440725 LowLimit 70 37.7 PA Method 5142	8015D: Gaso Units: mg/K HighLimit 130 212 8015D: Gaso	G %RPD	RPDLimit	Qual
Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	2303484-001ams South Sidewall ge Organics (GRO) 2303484-001amsd	1000 SampT Batcl Analysis D Result 17 1400 SampT Batcl Analysis D	Гуре: MS h ID: GS Date: 3/9 PQL 3.5 Гуре: MS h ID: GS Date: 3/9	95142 9/2023 SPK value 17.72 708.7 5D 95142 9/2023	F SPK Ref Val 0 Tes F	etCode: EF RunNo: 95 SeqNo: 34 %REC 95.4 196 etCode: EF RunNo: 95 SeqNo: 34	PA Method 5142 440725 LowLimit 70 37.7 PA Method 5142 440726	8015D: Gaso Units: mg/K HighLimit 130 212 8015D: Gaso Units: mg/K	g %RPD line Range	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

2303484

16-Mar-23

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		RONMENTAL .Ysis Dratory	T
Clie	nt Name:	Hilcoro Enerav	Wor

Page 27 of 46

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 Ene	ergy	Work	Order Numb	er: 2303	484		I	RcptNo:	1
Received By:	Tracy Cas	arrubias	3/9/2023	3 7:15:00 AN	И					
Completed By:	Tracy Cas	arrubias	3/9/2023	3 7:36:03 AN	И					
Reviewed By:										
Chain of Cus	<u>tody</u>									
1. Is Chain of C	ustody comp	lete?			Yes		No 🛽	Not Prese	nt 🗌	
2. How was the	sample deliv	ered?			<u>Couri</u>	er				
Log In							Г	٦	. —	
3. Was an attem	npt made to c	ool the samp	oles?		Yes		No 🗌	J N	а 🗌	
4. Were all samp	oles received	at a tempera	ature of >0° C t	to 6.0°C	Yes		No [м [а 🗌	
5. Sample(s) in	proper contai	ner(s)?			Yes		No [)		
6. Sufficient sam	ple volume f	or indicated t	est(s)?		Yes	✓	No 🗌]		
7. Are samples (except VOA	and ONG) pr	operly preserve	ed?	Yes	\checkmark	No 🗌]		
8. Was preserva	tive added to	bottles?			Yes		No 🔽) NA		
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	'OA?	Yes		No 🗌) N/	A 🗹	1
10. Were any sar	nple containe	ers received t	oroken?		Yes		No 🔽	# of preserve		/
11. Does paperwo			、 、		Yes	✓	No 🗌	bottles check for pH:		>12 unless noted)
(Note discrepa 12. Are matrices o			-		Yes		No 🗌] Adjuste		rz uness noted)
13, Is it clear what			-			✓		,	/	
14. Were all holdi			1 !					/	d by:	1 3-9-
(If no, notify c	-		I						6	1-2.
Special Handl	ing (if app	licable)								
15. Was client no	tified of all di	screpancies	with this order?	,	Yes		No [] <u>N</u>	А 🗹	
	Notified:			Date:	1					
By Who			warman and sub-sciences	Via:	🗌 eMa	il 🗌	Phone 🗌 F	ax 🗌 In Person	-	
Regard Client I	ing: nstructions:			ne na kana na na na ingi			ana a la data katan biy		inanan k	
16. Additional re	marks:									
17. <u>Cooler Infor</u>	mation									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	Signed By			

Client: Httls.or.O	Turn-Around Time: Same Day	HALL ENVIRONMENTAL
		www.hallenvironmental.com
Mailing Address:	Riddle GCAIR	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: bran don. Sinclair Ob !/cor p.co Project Manager:	Project Manager:	₹04 20 20 20 20 20 20 20 20 20 20 20 20 20
UAVUC Package:	Kate Kaufman	₽Q4' DRIW3 DECB.
Accreditation:	ander V Yes	NC 8270
EDD (Type)	1	(GR 310 (310 (310))))))))))))))))))))))))))))))))))))
	Cooler Temp(Induding CF): 1.9 - Q = 1.4 (°C)	03150 9450 99 83 90 83 9 M6 9 M6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 23 0249.4	8081 F 2018 (1 2018 (1
1:02 001	1000	
4 100 100 mm		
	ACCOUNT OF A DESCRIPTION OF A DESCRIPTIO	
Date: Time: Relinquished by: 3-8 1037 M Am	Received by: Viat Date Time	Remarks:
Date: Time: Relinquished by: 3/8/23 /60U / MM / MA		
If necessary, samples submitted to Hall Environmental may b subcontracted to other accredited laboratories. Released to Imaging: 3/23/2023 8:05:07 AM	This serves as n	o lice of this poss ibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 1/12/2023 2:19:10 PM

Executive Summary – Incident #nAPP2224436644

On August 25, 2022, approximately 13 barrels of condensate and 3 barrels of produced water were released from an above ground storage tank at the Riddle Gas Com A #1R wellsite (30-045-31138) S09, T27N, R09W, Unit G. The release was due to corrosion around the manway door of the tank. The release was discovered at 1:00 PM MST on August 25, 2022 and was reported to NMOCD on 9/1/2022.

The operator conducting daily checks discovered corrosion around the man way door. The release remained inside the berm. No fluids were recovered. There was no immediate danger to the public and no fire occurred as a result of the release. The well was shut in and the tank drained for inspection and repair prior to being put back into service.

Impacted soil was removed and transported offsite for disposal. Six (6) 5-point composite samples were collected from the excavated area on December 27, 2022. One additional 5-point composite sample was collected from the south sidewall on March 8, 2023. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample diagram and analytical results are included in this summary report.

Scaled Site Map

Lat: 36.590745 Long: -107.789532 Riddle Gas Com A #1R Wellsite API: 30-045-31138

Release Area



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Depth to groundwater determination.

BGT Siting Criteria for Riddle Gas Com A #1R

Estimated depth to groundwater is greater than 100'.

FO Ber 4465, Durange, CD 81302		Pit Permit Siting Criteria Information Sheet	Client: Project: Revised: Prepared by:	XTO Energy Pit Permits 21-Nov-08 Devin Hencmann
API#:		3004531138	USPLSS:	27N, 09W, 09G
Name:	RIDD	LE GAS COM A #1R	Lat/Long:	36.58389/-107.78417
Depth to groundwater:		>100'	Geologic formation:	Naciemento
Distance to closest continuously flowing watercourse:	9 miles N	to the 'San Juan River'		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	1 mile S t	o Jaques Canyon wash		
Sinkinge-L			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
			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 boundarles		No	Attached Documents:	27N 11W i-Waters pdf,27N 12W i-Waters pdf
Within defined municipal fresh water well field		No		Topo map pdf, Aerial pdf, Mines and Quarries 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 plain	No	o-FEMA Zone 'X'		

Depth to groundwater determination.

BGT Siting Criteria for Riddle Gas Com A #1R

Estimated depth to groundwater is greater than 100'. Site Specific Hydrogeology

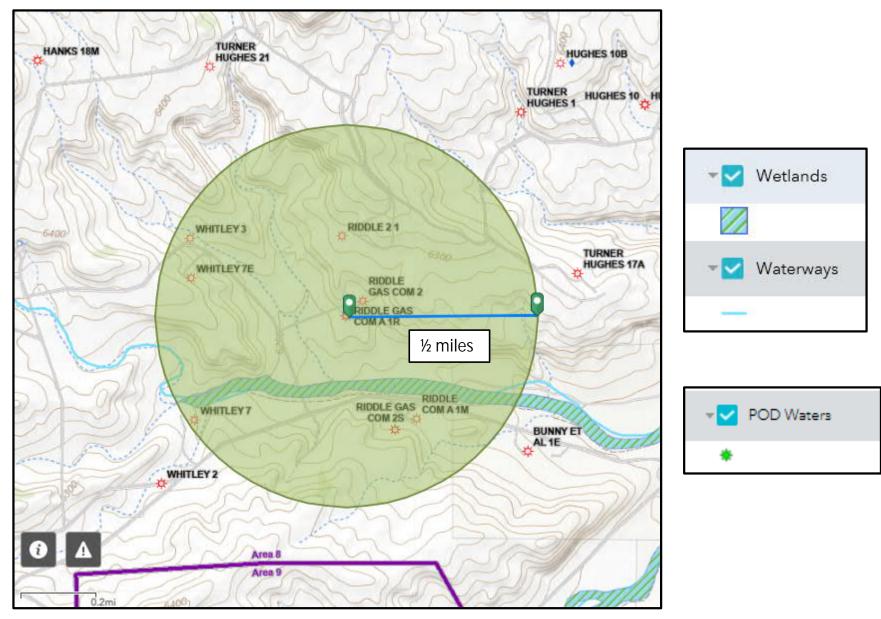
Depth to groundwater is estimated to be greater than 100'. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depth s greater than 100 feet and thicknesses of the aquifer can be up to 3500 feet (USGS, Groundwater Atlas of the US).

The site in question is located near the edge of Largo Canyon, where deeply eroded sandstone-capped mesas and slope-forming mudstones occur in a sparsely vegetated and arid badlands-type setting. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

The pit will be located on a relatively flat mesa top at an elevation of approximately 6221 feet near the head of Largo Wash. It will be approximately 700 feet from the Largo Canyon tributary system and 6.4 miles west of Largo Wash. Groundwater is expected to be shallow within Largo Wash. But the significant distance between the Canyon and the site, as well as an elevation difference of over 400 feet suggest groundwater is greater than 100 feet at the proposed site.

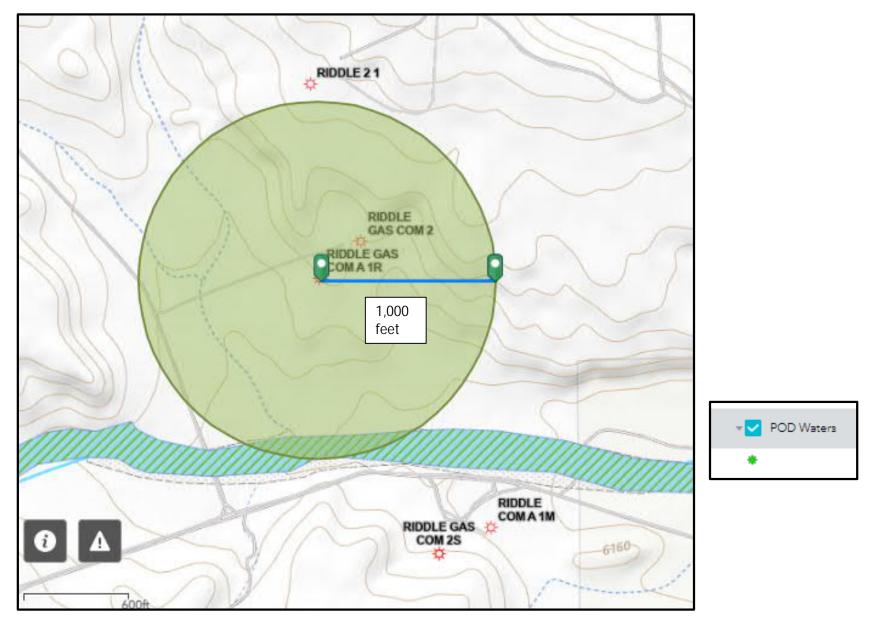
Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



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.



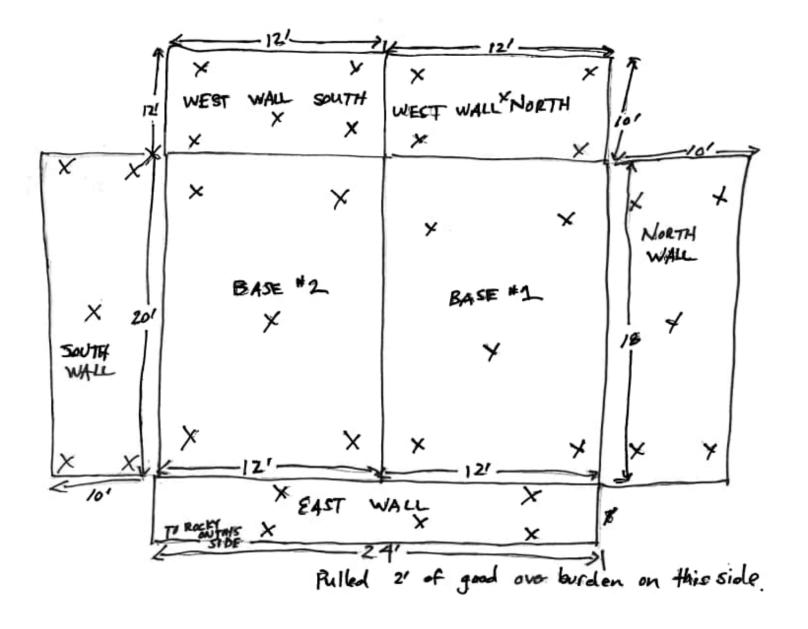
Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

Data table of soil contaminant concentrations

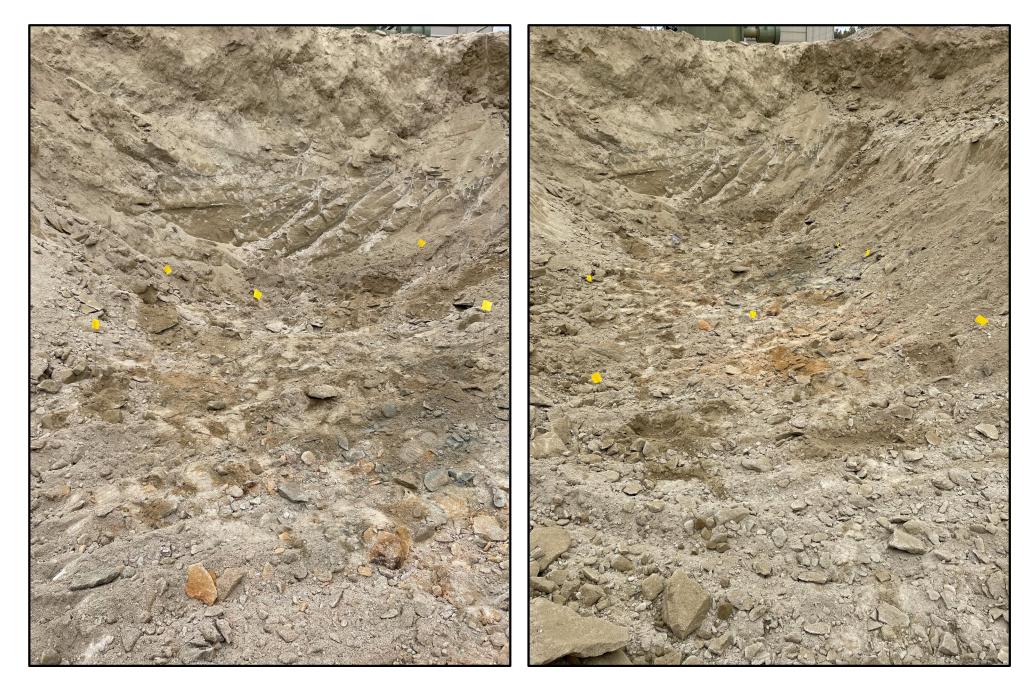
							Riddle Gas C	om A #1R L	aboratory R	esults			
		Field VOCs		TPH as	TPH as	TPH as		TPH as GRO +				Total	
		by PID	Chloride	DRO	GRO	MRO	Total TPH	DRO	Benzene	Toluene	Ethylbenzene	Xylene	Total BTEX
Sample Name	Sample Date	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
19.15.29 Table	1 Closure Crite	eria	20,000	-	-	-	2,500	1,000	10	-	-	-	50
Base #1	12/27/2022	-	ND	670	32	420	1,122	702	ND	ND	ND	1	1
Base #2	12/27/2022	-	ND	42	ND	ND	42	42	ND	ND	ND	ND	ND
Wall North	12/27/2022	-	ND	42	ND	200	242	42	ND	ND	ND	ND	ND
West Wall North	12/27/2022	-	ND	50	ND	71	121	50	ND	ND	ND	ND	ND
West Wall South	12/27/2022	-	ND	44	ND	ND	44	44	ND	ND	ND	ND	ND
East Wall	12/27/2022	-	ND	550	ND	290	840	550	ND	ND	ND	ND	ND
South Sidewall	3/8/2023	-	ND	380	ND	230	610	380	ND	ND	ND	ND	ND

Confirmation samples were collected on 12/27/2022 and 3/8/2023 by Hilcorp personnel and all results were below NMOCD 19.15.29.12.D Table 1 closure criteria.

Field Sample Diagram



Sample Photos – Base 1 (left) and Base 2 (right)



Sample Photos – East Wall



Sample Photos – North Wall



Sample Photos - North Wall and Base with BGT Removed



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Sample Photos – West Wall North



Sample Photos – West Wall South

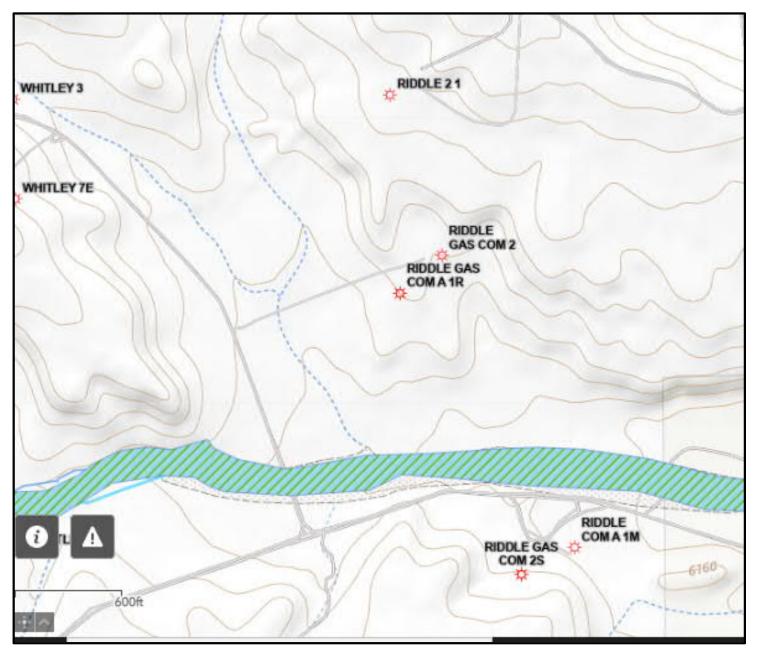


Sample Photos – South Side Wall



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Topographic Map



Analytical Data, Sample Collected 12/27/2022.

See attached Lab 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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	175586
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	3/23/2023

Page 46 of 46

Action 175586