The total spill volume was determined by using Hilcorp's monthly tank gauging data.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone jeremy.allen@greenanalytical.com

16 May 2025

Randall Klingler Hilcorp 382 CR 3100 Aztec, NM 87410

RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 05/09/25 12:04. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Jeremy D Allen

Laboratory Director

Jerry D. all

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C25-00079

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C25-00101

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2505173-02: Storey B LS 3 Area 3	5
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Hilcorp Project: Braden Head

382 CR 3100 Project Name / Number: [none] Reported:

Aztec NM, 87410 Project Manager: Randall Klingler 05/16/25 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Rhoda Abrams 1M Area 3	2505173-01	Water	05/09/25 11:00	05/09/25 12:04	
Storey B LS 3 Area 3	2505173-02	Water	05/09/25 11:30	05/09/25 12:04	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

Released to Imaging: 5/20/2025 10:27:26 AM

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Hilcorp Project: Braden Head

382 CR 3100 Project Name / Number: [none] Reported:

Aztec NM, 87410 Project Manager: Randall Klingler 05/16/25 15:21

Rhoda Abrams 1M Area 3

2505173-01 (Produced Water) Sampled Date: 05/09/25 11:00

Sampled By:

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Chloride*	10000	200	99.4	mg/L	200	05/14/25 23:13	EPA 300.0		AWG
Total Dissolved Solids*	22700	40.0		mg/L	4	05/14/25 17:04	EPA 160.1/SM 2540C		HIC

Green Analytical Laboratories

Jeren, S. all

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HilcorpProjectBraden Head382 CR 3100Project Name / Number:[none]Reported:Aztec NM, 87410Project Manager:Randall Klingler05/16/25 15:21

Storey B LS 3 Area 3

2505173-02 (Produced Water) Sampled Date: 05/09/25 11:30

Sampled By:

General Chemistry								
Chloride*	9710	200	99.4	mg/L	200	05/14/25 23:38	EPA 300.0	AWG
Total Dissolved Solids*	21100	40.0		mg/L	4	05/14/25 17:06	EPA 160.1/SM 2540C	HIC

Green Analytical Laboratories

Jereny D. all

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HilcorpProject:Braden Head382 CR 3100Project Name / Number:[none]Reported:Aztec NM, 87410Project Manager:Randall Klingler05/16/25 15:21

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B251261 - IC- Ion Chromatograph										
Blank (B251261-BLK1)			Prep	ared & Ana	yzed: 05/1	4/25				
Chloride	ND	1.00	mg/L							
LCS (B251261-BS1)	S (B251261-BS1) Prepared & Analyzed: 05/14/25									
Chloride	25.4	1.00	mg/L	25.0		102	90-110			
LCS Dup (B251261-BSD1) Prepared & Analyzed: 05/14/25										
Chloride	24.9	1.00	mg/L	25.0		99.7	90-110	1.92	20	
Batch B251265 - General Prep - Wet Chem										
Blank (B251265-BLK1)			Prep	ared & Ana	yzed: 05/1	4/25				
Total Dissolved Solids	ND	10.0	mg/L				<u> </u>			
Reference (B251265-SRM1)			Prep	ared & Anal	yzed: 05/1	4/25				
Total Dissolved Solids	365	10.0	mg/L	400		91.2	85-115			

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Analyte DETECTED

Green Analytical Laboratories

DET

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Jeremy D Allen, Laboratory Director

Released to Imaging: 5/20/2025 10:27:26 AM

75 Suttle Street Durango, CO 81303 (970) 247-4220

Note: Wise-Discovery Billion (Note) Sample Name or Location Sampl		Cany ared	Reflinguis Med By:	Relinquished By:	waived unless made in writing of the color o	DI FACE NOTE: CAL's liability							7	0	Lab I.D. 2505 - 173 Lab Use Only		Sampler Name (Print):	Project Name(optional):	Email Report to:	Contact Person:	Phone #:	City:	Address:	Company or Client:	Laboratories
Page of Therm. used: TCLP RCRA Metals BTEX Dissolved Chlorides	* Chain of Custody must be signed	Ex.0 Time: 1118	1000 Time: 1/2/35	1 /1	and clients exclusive reniedy out any orani arising whenice based in comand received by GAL within 30 days after completion of the applicable sentent, its subsidiaries, affiliates or successors arising out of or related to the	10) and disorts exclusive remark for any claim arising whether based in contr	9)	7)	6)	5)	4)	3)	2) Storey B LS 3 Area 3	1) Rhoda Abrams 1M Area 3	Sample Name or Location):	Randall.klingler@Hilcorp.com	Randy Klingler	505-793-9011	State: NM	382 Road 3100, Aztec, NM 87410	Hilcorp North	Note: Wite-Out IN
Page of Therm. used: TCLP RCRA Metals BTEX Dissolved Chlorides	s. Please email char in "Relinquished By	Received By:	Received By:	Received By:	vice. In no event shall GA performance of services	act or tort shall be limite						-			Date	Collecte						87410			or similar products
Page of Therm. used: TCLP RCRA Metals BTEX Dissolved Chlorides	nges to receing as an acce	7	X 90	The Contract of the Contract o	L be liable for i	d to the amoun							11:30AM	11:00am	Time	be									s cannot be
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Page 7 of 8 2505173 GAL FINAL 05 16 25 1521 05/16/25 15:21:05

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SAMPLE CONDITION RECEIPT FORM

г	Table of	Contents
	Date/Initials or person examining contents:	5.13.25
	Labeled by initials: (If different than above)	

Client Name: Itilcorp		,	Work Order #_2505-173
Courier: □Fed Ex □UPS □USPS □Cli	ient Kan	garoo 🛚 Third Party	□Other
Custody Seals on Box/Cooler Present: Yes	No Seals I	ntact: □ Yes □ No	GAL Cooler #:
Thermometer Used: # Samples on ice, c	ooling process	has begun: ✓Yes □ N	No
Type of Ice: ✓ Wet ☐ Blue ☐ None Cooler			
Compliance: ☐ Yes ☑ No			*Temp should be above freezing 6°C
Chain of Custody Filled Out:	ØYes □No	1.	
COC Signed when Relinquished and Received:	ØŶes □No	2.	
Sampler Name and Signature on COC: *Required for compliance	✓Yes □No	3.	
Samples arrived within hold time:	✓Yes □No	4.	
Correct Containers Used & Intact:	✓Yes □No	5.	
Short Hold Time Analysis (<72hr):	□Yes □Mo	6.	
Rush Turn Around Time Requested:	⊠Yes □No	7.	
Sufficient Volume:	□Yes □No	8.	
pH's acceptable upon receipt, where applicable: *Not including metals bottles	es □No ☑N/A	9.	
Dissolved Testing Needed: Field Filtered: □Yes □No	□Yes ☑No	10.	
Sample Labels match COC:	ØYes □No	11.	
-Includes Date/Time/ID			
Matrix:	es No IN/A	12.	
Trip Blank Present:			
The Blank Castos, Could Free Could	es □No □N/A		
VOA'S meet neadspace requirement (- 5mm edecies)	55 Z.15 T		
Non-Conformance(s):	□Yes □No	13.	
Client Notification/Resolution:			
Person Contacted:		Date/Time	e:
Comments/Resolution:			
		<u>'</u>	

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 465054

QUESTIONS

Op	perator:	OGRID:
	HILCORP ENERGY COMPANY	372171
	1111 Travis Street	Action Number:
	Houston, TX 77002	465054
		Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites							
Incident ID (n#)	nAPP2512930293						
Incident Name	NAPP2512930293 RHODA ABRAMS 1M @ 30-045-34150						
Incident Type	Produced Water Release						
Incident Status	Initial C-141 Received						
Incident Well	[30-045-34150] RHODA ABRAMS #001M						

Location of Release Source							
Please answer all the questions in this group.							
Site Name	Rhoda Abrams 1M						
Date Release Discovered	05/07/2025						
Surface Owner	Federal						

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release			
Material(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.		
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 19 BBL Recovered: 18 BBL Lost: 1 BBL.		
Is the concentration of chloride in the produced water >10,000 mg/l	No		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	On 5/7/2025 at 3:00 pm (MT), a Hilcorp operator discovered a 18.75-bbl produced water release from a 120-bbl pit tank. Upon further inspection by the operator, it was determined that a 1/2-inch hole had formed on the 120-bbl pit tank approximately 3.5-inches above the bottom of the pit tank. This hole was discovered after operations had drained produced wate fluid from the adjacent 286-bbl condensate storage tank into the pit tank earlier in the day. When the operator re-visited the site later the same day, the operator heard water leaking at the pit tank. Three Rivers Trucking was called to the site to remove fluid from within secondary containment and the pit tank as well. Approximately 18 bbls of fluid was recovered by Three Rivers Trucking. However, 0.75-bbl of spilled fluid soaked into the soils/gravel beneath the pit tank. No spilled fluids migrated horizontally outside containment.**Note: General chemistry for the produced water fluids at Rhoda Abrams/Story B LS 3 indicate that dissolved chlorides are not greater than 10.000 mg/L.**		

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

QUESTIONS, Page 2

Action 465054

QUESTIONS (continued)
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Q02011	One (continued)
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street	Action Number:
Houston, TX 77002	465054
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Mitch Killough Title: Environmental Specialist Email: mkillough@hilcorp.com

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116 Online Phone Directory

Energy, Minerals and Natural Resources Oil Conservation Division https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS, Page 3

Action 465054

QUESTIONS (continued)

Santa Fe, NM 87505

State of New Mexico

Operator:		OGRID:
HIL	CORP ENERGY COMPANY	372171
111	11 Travis Street	Action Number:
Hou	uston, TX 77002	465054
		Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS Site Characterization Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse Not answered Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered. An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered. Categorize the risk of this well / site being in a karst geology A 100-year floodplain Not answered. Did the release impact areas not on an exploration, development, production, or Not answered. storage site

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in acco	ordance with the physical realities encountered during remediation. If the responsible party has any need to

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

CONDITIONS

Action 465054

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	465054
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created	Ву	Condition	Condition Date
scott.re	odgers	None	5/20/2025