

Aztec NM, 87410

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www.GreenAnalytical.com

Reported:

Hilcorp Project: Braden Head 382 CR 3100 Project Name / Number: North

Project Manager: Kevin Fredrickson 09/05/23 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Randlemon 100	2308360-01	Water	08/23/23 08:00	08/23/23 15:00	

Green Analytical Laboratories

Neronica J NULLS

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Hilcorp

382 CR 3100

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Randlemon 100

2308360-01 (Water) Sampled Date: 08/23/23 08:00

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Chloride*	7380	200	11.1	mg/L	200	08/31/23 11:42	EPA300.0		AWG
pH*	9.06			pH Units	1	08/23/23 16:50	EPA150.1		AWG
pH Temperature, degrees C	20.2			pH Units	1	08/23/23 16:50	EPA150.1		AWG
Sulfate*	5140	200	24.8	mg/L	200	08/31/23 11:42	EPA300.0		AWG
Total Dissolved Solids*	19900	40.0		mg/L	4	08/29/23 17:18	EPA160.1		CAI

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Neronica J Wills

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232534 - General Prep - Wet Chem										
Reference (B232534-SRM1)	Prepared & Analyzed: 08/23/23									
pH	6.95		pH Units	7.00		99.3	98.57-101.42			
Batch B232553 - General Prep - Wet Chem										
Blank (B232553-BLK1)	Prepared: 08/28/23 Analyzed: 08/29/23									
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B232553-SRM1)	Prepared: 08/28/23 Analyzed: 08/29/23									
Total Dissolved Solids	355	10.0	mg/L	400		88.7	85-115			
Batch B232598 - IC- Ion Chromatograph										
Blank (B232598-BLK1)	Prepared & Analyzed: 08/31/23									
Chloride	ND	1.00	mg/L							
Sulfate	0.191	1.00	mg/L							
LCS (B232598-BS1)	Prepared & Analyzed: 08/31/23									
Chloride	24.4	1.00	mg/L	25.0		97.5	90-110			
Sulfate	24.2	1.00	mg/L	25.0		97.0	90-110			
LCS Dup (B232598-BSD1)			Prepa	ared & Anal	lyzed: 08/3	1/23				
Chloride	24.8	1.00	mg/L	25.0		99.3	90-110	1.83	20	
Sulfate	24.5	1.00	mg/L	25.0		98.0	90-110	1.12	20	

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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 261813

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	261813
	Action Type:
	[UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	TDS 19900 - bradenhead has production water	9/15/2023