OCD Received 8/17/2020



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

17 August 2020

David Bounds Hilcorp 382 Road 3100 Aztec, NM 87410

RE: Braden Head

Enclosed are the results of analyses for samples received by the laboratory on 07/24/20 15:36. If you need any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Dellie Zufett

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.

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.



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Hilcorp Project: Braden Head
382 Road 3100 Project Name / Number: [none]
Aztec NM, 87410 Project Manager: David Bounds

Reported: 08/17/20 09:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Zachry 60	2007286-03	Water	07/24/20 00:00	07/24/20 15:36	

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Deldie Zufett



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HilcorpProject:Braden Head382 Road 3100Project Name / Number:[none]Reported:Aztec NM, 87410Project Manager:David Bounds08/17/20 09:04

Client requested each of the 3 samples be reported individually. This RE report is revised and replaces the original report dated 08/07/20.

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Hilcorp Project: Braden Head
382 Road 3100 Project Name / Number: [none]
Aztec NM, 87410 Project Manager: David Bounds

Reported:

08/17/20 09:04

Zachry 60

2007286-03 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Chloride*	117	200	17.7	mg/L	200	08/05/20 20:46	EPA300.0		AES
pH*	12.1			pH Units	1	07/28/20 13:10	EPA150.1	H1	VJW
Total Dissolved Solids*	13900	20.0		mg/L	2	07/29/20 10:55	EPA160.1		VJW
Sulfate*	9430	200	30.5	mg/L	200	08/05/20 20:46	EPA300.0		AES

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Reported: 08/17/20 09:04

Notes and Definitions

H1 Sample was received several days after collected and subsequently analyzed past hold time.

DET Analyte DETECTED

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

Green Analytical Laboratories

Deldie Zufett

Client: Hilcorp	Asset:	South	Phone#	505-419-3410	Contact David Bounds
Address: 9A CR# 5793, Farmington	NM 87401		E-Mail A	ddres dbounds@hilco	orp.com



75 Suttle Street Durango, CO 81303 Phone:970-247-4220 FAX: 970-247-4227

	CHAIN OF	CUSTODY	RECORD
GAL	Work Order #		
PO#			

Sample Location:

Sample Type:

(1)BumperSpring, (2)CompressorDischarge, (3)Flowline, (4)Meter, (5)Oil Tank (6)PigLauncher, (7)PigReceiver, (8)Pipeline, (9)Pit Tank, (10)PostFilter, (11)PreFilter (12)SeparatorInlet, (13)SeparatorOutlet, (14)SeparatorDump, (15)SWDInlet (16)SWDOutlet, (17)TransferPump, (18)ValveCan, (19)WaterTank, (20)Wellhead (21)Other

Project Name:

(1)Casing, (2)CO2GasTube, (3)Coupon, (4)Water, (5)H2SGasTube, (6)Metals (7)O2GasTube, (8)PipeSection, (9)Residual, (10)Sludge, (11)Solid, (12)Tubing, (13)Other

	Co	lection		-				Pres	serva	ative		An	alyse	s Re	quire
Well Name (Sample Name)	Area	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	Other:	ron and Manganese	Phosphate	Full Water API	Brackerheal
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