



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 03, 2024

WAYNE PRICE

WASSERHUND INC.

P.O. BOX 2140

LOVINGTON, NM 88260

RE: BUCKEYE BRINE STATION BW-04

Enclosed are the results of analyses for samples received by the laboratory on 11/14/24 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

WASSERHUND INC. P.O. BOX 2140 LOVINGTON NM, 88260	Project: BUCKEYE BRINE STATION BW-04 Project Number: BW-04 Project Manager: WAYNE PRICE Fax To:	Reported: 03-Dec-24 09:57
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH	H246957-01	Water	14-Nov-24 10:00	14-Nov-24 11:30
BRINE	H246957-02	Water	14-Nov-24 10:00	14-Nov-24 11:30
MW - 1	H246957-03	Water	14-Nov-24 09:30	14-Nov-24 11:30

Cardinal Laboratories

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FRESH

H246957-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride*	64.0		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
pH*	8.36		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	19.6			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	0.9960		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
TDS*	371		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	

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BRINE
H246957-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride*	196000		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
pH*	6.67		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	19.8			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	1.199		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
TDS*	268000		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Sodium*	108000		500	mg/L	500	B243375	AWG	25-Nov-24	EPA 200.7	
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**MW - 1
H246957-03 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	234		5.00	mg/L	1	4111834	HM	18-Nov-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4111834	HM	18-Nov-24	310.1	
Cation/Anion Balance	- 0.13			%	1	2082536	CK	03-Dec-24	CALC	
Chloride*	36.0		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
Conductivity*	618		1.00	umhos/cm @ 25°C	1	4111453	KV	14-Nov-24	120.1	
Oxidation/Reduction Potential	46.0			mV	1	4111460	CT	14-Nov-24	SM2580A	
Temperature	21.6			mV	1	4111460	CT	14-Nov-24	SM2580A	
pH*	6.71		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	19.9			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	0.9970		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
Sulfate*	67.1		16.6	mg/L	1.66	4111915	HM	19-Nov-24	375.4	
TDS*	376		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	
Alkalinity, Total*	192		4.00	mg/L	1	4111834	HM	18-Nov-24	310.1	

Green Analytical Laboratories

General Chemistry

Bromide	<0.100		0.100	mg/L	1	B243407	AWG	21-Nov-24	EPA 300.0	
Fluoride*	0.966		0.100	mg/L	1	B243407	AWG	21-Nov-24	EPA 300.0	

Total Recoverable Metals by ICP (E200.7)

Calcium*	76.3		0.200	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Magnesium*	11.5		0.100	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Potassium*	4.45		1.00	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Sodium*	32.1		1.00	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	

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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4111453 - General Prep - Wet Chem

LCS (4111453-BS1) Prepared & Analyzed: 14-Nov-24

pH	7.05		pH Units	7.00		101	90-110			
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Duplicate (4111453-DUP1) Source: H246957-03 Prepared & Analyzed: 14-Nov-24

Conductivity	616	1.00	umhos/cm @ 25°C		618			0.324	20	
pH	6.70	0.100	pH Units		6.71			0.149	20	
Temperature °C	19.8		pH Units		19.9			0.504	200	

Batch 4111460 - General Prep - Wet Chem

LCS (4111460-BS1) Prepared & Analyzed: 14-Nov-24

Oxidation/Reduction Potential	247		mV	240		103	90-110			
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Duplicate (4111460-DUP1) Source: H246957-03 Prepared & Analyzed: 14-Nov-24

Oxidation/Reduction Potential	49.9		mV		46.0			8.13	20	
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Batch 4111508 - General Prep - Wet Chem

Blank (4111508-BLK1) Prepared: 15-Nov-24 Analyzed: 19-Nov-24

Chloride	ND	4.00	mg/L							
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LCS (4111508-BS1) Prepared: 15-Nov-24 Analyzed: 19-Nov-24

Chloride	100	4.00	mg/L	100		100	80-120			
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LCS Dup (4111508-BSD1) Prepared: 15-Nov-24 Analyzed: 19-Nov-24

Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4111521 - General Prep - Wet Chem

Duplicate (4111521-DUP1)		Source: H246957-01			Prepared & Analyzed: 15-Nov-24					
Specific Gravity @ 60° F	0.9956	0.000	[blank]		0.9960			0.0321	20	

Batch 4111820 - Filtration

Blank (4111820-BLK1)		Prepared: 18-Nov-24 Analyzed: 21-Nov-24								
TDS	5.00	5.00	mg/L							

LCS (4111820-BS1)		Prepared: 18-Nov-24 Analyzed: 19-Nov-24								
TDS	843		mg/L	1000		84.3	80-120			

Duplicate (4111820-DUP1)		Source: H246957-01			Prepared: 18-Nov-24 Analyzed: 19-Nov-24					
TDS	377	5.00	mg/L		371			1.60	20	

Batch 4111834 - General Prep - Wet Chem

Blank (4111834-BLK1)		Prepared & Analyzed: 18-Nov-24								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (4111834-BS1)		Prepared & Analyzed: 18-Nov-24								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			

LCS Dup (4111834-BSD1)		Prepared & Analyzed: 18-Nov-24								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			20
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	0.00		20
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	0.00		20

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**Inorganic Compounds - Quality Control
Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4111915 - General Prep - Wet Chem										
Blank (4111915-BLK1)										
Prepared & Analyzed: 19-Nov-24										
Sulfate	ND	10.0	mg/L							
LCS (4111915-BS1)										
Prepared & Analyzed: 19-Nov-24										
Sulfate	16.7	10.0	mg/L	20.0		83.5	80-120			
LCS Dup (4111915-BSD1)										
Prepared & Analyzed: 19-Nov-24										
Sulfate	16.0	10.0	mg/L	20.0		80.2	80-120	4.09	20	

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General Chemistry - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B243407 - IC- Ion Chromatograph

Blank (B243407-BLK1)

Prepared: 19-Nov-24 Analyzed: 21-Nov-24

Fluoride	ND	0.100	mg/L							
Bromide	ND	0.100	mg/L							

LCS (B243407-BS1)

Prepared: 19-Nov-24 Analyzed: 21-Nov-24

Fluoride	2.39	0.100	mg/L	2.50		95.6	90-110			
Bromide	2.36	0.100	mg/L	2.50		94.4	90-110			

LCS Dup (B243407-BSD1)

Prepared: 19-Nov-24 Analyzed: 21-Nov-24

Fluoride	2.48	0.100	mg/L	2.50		99.3	90-110	3.82	20	
Bromide	2.45	0.100	mg/L	2.50		98.2	90-110	3.95	20	

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Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B243375 - Total Recoverable by ICP

Blank (B243375-BLK1)

Prepared: 18-Nov-24 Analyzed: 21-Nov-24

Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B243375-BS1)

Prepared: 18-Nov-24 Analyzed: 21-Nov-24

Sodium	1.56	1.00	mg/L	1.62		96.4	85-115			
Potassium	3.94	1.00	mg/L	4.00		98.6	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
Calcium	1.97	0.200	mg/L	2.00		98.6	85-115			

LCS Dup (B243375-BSD1)

Prepared: 18-Nov-24 Analyzed: 21-Nov-24

Sodium	1.55	1.00	mg/L	1.62		95.8	85-115	0.670	20	
Magnesium	10.2	0.100	mg/L	10.0		102	85-115	0.401	20	
Calcium	1.99	0.200	mg/L	2.00		99.3	85-115	0.756	20	
Potassium	3.97	1.00	mg/L	4.00		99.3	85-115	0.665	20	

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Notes and Definitions

- Z-01 - 0.13
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: WASSERHUND INC				BILL TO				ANALYSIS REQUEST															
Project Manager: WAYNE PRICE				P.O. #:				<p><i>PH, SG, TDS, CL</i></p> <p><i>PH, SG, TDS, CL + Na</i></p> <p><i>GENCHEM - CATION BALANCE</i></p> <p><i>FLOURIDE, CALCIUM POTASSIUM</i></p> <p><i>MAGNESIUM, SODIUM AL CAL</i></p> <p><i>CARBONATE, CL, SULFATE, TDS</i></p> <p><i>PH, BROMIDE</i></p> <p><i>ORP</i></p> <p><i>PH, EA, SPEC CONDUCTANCE</i></p> <p><i>GRAVITY, TEMP-FIELD</i></p>															
Address: 7 SYCAMORE LN				Company:																			
City: GLENNWOOD State: NM Zip: 88039				Attn:																			
Phone #: 505-715-2809 Fax #:				Address:																			
Project #: BW-04 Project Owner:				City:																			
Project Name: BRINE WELL				State: Zip:																			
Project Location: BUCKEYE				Phone #:																			
Sampler Name: 21 PRICE				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING		DATE		TIME								
H246957						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	11/14/24		10:00 AM		✓				
1		FRESH		✓	1																		
2		BRINE		✓	2																		
3		MW-1		✓	3										9:30 AM				✓		✓		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: WAYNE PRICE		Date: 11/14/24		Received By: S. Keene		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Time: 11:39 AM		Received By:		All Results are emailed. Please provide Email address: WAYNE PRICE 9.COM @ GMAIL.COM	
Delivered By: (Circle One)		Observed Temp. °C 4.7		Sample Condition		REMARKS: PURGE 3 WELL VOL - TEMP STABILIZE 50°F	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 4.1		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
		CHECKED BY: SK		Thermometer ID #140		Bacteria (only) Sample Condition	
				Correction Factor -0.6°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C	
						Corrected Temp. °C	

FORM-000-R-3.5-08/03/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsonm.com

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

COMMENTS

Action 408131

COMMENTS

Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
	Action Number: 408131
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	Analytical Report Nov. 2024	12/6/2024

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CONDITIONS

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Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
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	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Under the current permit "monitoring", the Permittee shall ensure the following: The Permittee shall analyze both the injected fluids and brine for the following characteristics: pH; density, concentration of total dissolved solids (TDS); chloride concentration; and sodium concentration (for brine only). Groundwater analyses look good.	12/12/2024