

**BW-031**

**VARIOUS  
SUBMITTALS**

**8/15/2022**

**From:** [Ben Donahue](#)  
**To:** [Chavez, Carl J, EMNRD](#)  
**Subject:** [EXTERNAL] BW-31 Documents  
**Date:** Monday, August 15, 2022 2:49:50 PM  
**Attachments:** [BW-31 Subsidence Monitoring Plan \(7-15-2022\).pdf](#)  
[BW-31 Quarterly Water Samples \(4-1-22\).pdf](#)  
[BW-31 Quarterly Water Samples \(7-1-22\).pdf](#)  
[BW-31 Injection-Production Volumes \(2022\) Jan - July.pdf](#)

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CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Carl,

I am trying to get caught up on some of this data entry to get things to you in a timely manner. Here are a few items that I wanted to get to you that we got back from the lab and surveyor. I also attached the injection / production volumes current totals up to date. I know you would like me to e-file these with action ID's and I am working to understand the C115 process for the monthly production reports. I might need to schedule a call with you sometime to discuss exactly how you would like the information submitted going forward so I do not bog you down with sorting all this information out. Thanks as always.

Ben

--

Schubert Construction  
P.O. Box 6056  
Hobbs, NM 88241

575 393 3194 Office  
615 305 6408 Cell

[benwdonahue@gmail.com](mailto:benwdonahue@gmail.com)

**BW-31 Injection / Production****2022 Production & Injection Pressures and Volumes**

<b>Month</b>	<b>Brine Production (Bbls) Average Pressure (psi)</b>	<b>Fresh Injection (Bbls) Average Pressure (psi)</b>
January	11,156 35	10,993 267
February	20,469 39	20,267 269
March	19,491 36	19,305 269
April	24,921 38	24,645 270
May	24,776 36	24,557 266
June	25,107 38	24,864 269
July	26,962 37	26,650 268
August		
September		
October		
November		
December		

<b>Yearly Total</b>	152,882 37	151,281 268.28571
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<b>Running Totals</b>	<b>Brine Production (Bbls)</b>	<b>Fresh Injection (Bbls)</b>
New Cavern	<b>360,710</b>	<b>356,794</b>
	Jan 1 2021- July 31 2022	Jan 1 2021- June 31 2022

<b>Running Totals</b>	<b>Brine Production (Bbls)</b>	<b>Fresh Injection (Bbls)</b>
	<b>4,557,694</b>	<b>4,583,315</b>
	2006 - July 31 2022	2006-July 31 2022

\*\* Did workover in December of 2020 and lowered depth of production. Begin new cavern characterization in January 2021

\*\* Injecting down the tubing and producing brine back up the casing (2021-Current)

# **2022 QUARTERLY WATER SAMPLES**

**H.R.C. INC.**

**Schubert 7 Well # 1 (BW-031)**

**API 30-025-36781**

**JULY 1, 2022**

**GARY M. SCHUBERT**

## MONITOR WELL WATER SAMPLE CHEMICAL ANALYSIS DATA

The BW-31 order requires that the specified monitor well be sampled quarterly and chemical analysis results be reported to the OCD. Water samples were pulled on July 1, 2022 from the designated monitor well and taken to Cardinal Laboratories for analysis. Summary of the analyses from July 1, 2022 of Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were no appreciable changes in the designated monitor well water quality since the last sample date, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398- 22-15 for 07/01/2022.

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

Method EPA 552.2 Total Halo acetic 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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix A

**JULY 1, 2022 RESULTS****MONITOR WELL INOGRANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	215		5.00	MG/L	7-6-22	310.1
Alkalinity Carbonate	< 1.00		1.00	MG/L	7-6-22	310.1
Chloride	152		4.00	MG/L	7-6-22	4500.C1.B
Conductivity	893		1.00	US/CM	7-1-22	120.1
pH	7.82		0.100	pH Units	7-1-22	150.1
Sulfate	60.6		10.0	MG/L	7-6-22	375.4
TDS	561		5.00	MG/L	7-6-22	160.1
Alkalinity Total	176		4.00	MG/L	7-6-22	310.1

**MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	56.4		1.00	MG/L	7-13-22	EPA200.7
Magnesium	17.4		1.00	MG/L	7-13-22	EPA200.7
Potassium	2.10	1.78	10.0	MG/L	7-13-22	EPA200.7
Sodium	82.7		10.0	MG/L	7-13-22	EPA200.7

## PRODUCED BRINE & INJECTED FRESH WATER CHEMICAL ANALYSIS DATA

The BW-31 order requires that the produced brine and injected fresh water be sampled quarterly and chemical analysis results be reported to the OCD. Water samples were pulled on July 1, 2022 from the fresh injection water source and the brine production casing at the wellhead. Those samples were taken to Cardinal Laboratories for analysis. Summary of the analyses from July 1, 2022 of Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were no appreciable changes in both the produced brine chemistry and injected fresh water chemistry since the last sampling, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398- 22-15 for 07/01/2022.

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

Method EPA 552.2 Total Halo acetic 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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix A.

**BRINE ANALYTICAL RESULTS: JULY 1, 2022****INORGANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	249		5.00	MG/L	7-6-22	310.1
Alkalinity Carbonate	<1.00		1.00	MG/L	7-6-22	310.1
Chloride	188,000		4.00	MG/L	7-6-22	4500.C1.B
Conductivity	276,000		1.00	UMHOS/CM	7-1-22	120.1
pH	6.54		0.100	Ph Units	7-1-22	150.1
Sulfate	7110		1250	MG/L	7-6-22	375.4
TDS	329,000		5.00	MG/L	7-6-22	160.1
Alkalinity Total	204		4.00	MG/L	7-6-22	310.1

**TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	977		50.0	MG/L	7-13-22	EPA 200.7
Magnesium	681		50.0	MG/L	7-13-22	EPA200.7
Potassium	1440	88.8	500	MG/L	7-13-22	EPA 200.7
Sodium	109,000		500	MG/L	7-13-22	EPA 200.7

**FRESH INJECTION WATER ANALYTICAL RESULTS: JULY 1, 2022****INORGANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed	Method
Alkalinity, Bicarbonate	259		5.00	MG/L	7-6-22	310.1
Alkalinity Carbonate	<1.00		1.00	MG/L	7-6-22	310.1
Chloride	272		4.00	MG/L	7-6-22	4500.C1.B
Conductivity	1650		1.00	UMHOS/CM	7-1-22	120.1
pH	7.49		0.100	pH units	7-1-22	150.1
Sulfate	273		50.0	MG/L	7-6-22	375.4
TDS	1080		5.00	MG/L	7-6-22	160.1
Alkalinity Total	212		4.00	MG/L	7-6-22	310.1

**TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed	Method
Calcium	116		1.00	MG/L	7-13-22	EPA 200.7
Magnesium	29.0		1.00	MG/L	7-13-22	EPA 200.7
Potassium	8.40	1.78	10.0	MG/L	7-13-22	EPA 200.7
Sodium	140		10.0	MG/L	7-13-22	EPA 200.7

# APPENDIX A



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

July 18, 2022

BEN DONAHUE  
ETZ WATER STATION  
PO BOX 6056  
HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 07/01/22 10:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/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



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

**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H222826-01	Water	01-Jul-22 05:20	01-Jul-22 10:12
MONITOR WELL	H222826-02	Water	01-Jul-22 05:15	01-Jul-22 10:12
INJECTION WATER	H222826-03	Water	01-Jul-22 05:25	01-Jul-22 10:12

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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**BRINE WATER  
H222826-01 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	249		5.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Chloride*	188000		4.00	mg/L	1	2063022	GM	06-Jul-22	4500-Cl-B	
Conductivity*	276000		1.00	umhos/cm @ 25°C	1	2070119	AC	01-Jul-22	120.1	
pH*	6.54		0.100	pH Units	1	2070119	AC	01-Jul-22	150.1	
Temperature °C	20.8			pH Units	1	2070119	AC	01-Jul-22	150.1	
Sulfate*	7110		1250	mg/L	125	2063006	GM	06-Jul-22	375.4	
TDS*	329000		5.00	mg/L	1	2062820	GM	06-Jul-22	160.1	
Alkalinity, Total*	204		4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	977		50.0	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Magnesium*	681		50.0	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Potassium*	1440	88.8	500	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	
Sodium*	109000		500	mg/L	500	B221831	AES	13-Jul-22	EPA200.7	

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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**MONITOR WELL  
H222826-02 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	215		5.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Chloride*	152		4.00	mg/L	1	2063022	GM	06-Jul-22	4500-Cl-B	
Conductivity*	893		1.00	umhos/cm @ 25°C	1	2070119	AC	01-Jul-22	120.1	
pH*	7.82		0.100	pH Units	1	2070119	AC	01-Jul-22	150.1	
Temperature °C	20.8			pH Units	1	2070119	AC	01-Jul-22	150.1	
Sulfate*	60.6		10.0	mg/L	1	2063006	GM	06-Jul-22	375.4	
TDS*	561		5.00	mg/L	1	2062820	GM	06-Jul-22	160.1	
Alkalinity, Total*	176		4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	56.4		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Magnesium*	17.4		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Potassium*	2.10	1.78	10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	J
Sodium*	82.7		10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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**INJECTION WATER  
H222826-03 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	259		5.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2042827	GM	06-Jul-22	310.1	
Chloride*	272		4.00	mg/L	1	2063022	GM	06-Jul-22	4500-Cl-B	
Conductivity*	1650		1.00	umhos/cm @ 25°C	1	2070119	AC	01-Jul-22	120.1	
pH*	7.49		0.100	pH Units	1	2070119	AC	01-Jul-22	150.1	
Temperature °C	20.8			pH Units	1	2070119	AC	01-Jul-22	150.1	
Sulfate*	273		50.0	mg/L	5	2063006	GM	06-Jul-22	375.4	
TDS*	1080		5.00	mg/L	1	2070520	GM	06-Jul-22	160.1	
Alkalinity, Total*	212		4.00	mg/L	1	2042827	GM	06-Jul-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	116		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Magnesium*	29.0		1.00	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	
Potassium*	8.40	1.78	10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	J
Sodium*	140		10.0	mg/L	10	B221831	AES	13-Jul-22	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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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
<b>Batch 2042827 - General Prep - Wet Chem</b>										
<b>Blank (2042827-BLK1)</b> Prepared & Analyzed: 29-Apr-22										
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
<b>LCS (2042827-BS1)</b> Prepared & Analyzed: 29-Apr-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120			
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120			
<b>LCS Dup (2042827-BSD1)</b> Prepared & Analyzed: 29-Apr-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	4.18	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	4.08	20	
<b>Batch 2062820 - Filtration</b>										
<b>Blank (2062820-BLK1)</b> Prepared: 27-Jun-22 Analyzed: 28-Jun-22										
TDS	ND	5.00	mg/L							
<b>LCS (2062820-BS1)</b> Prepared: 27-Jun-22 Analyzed: 29-Jun-22										
TDS	561		mg/L	500		112	80-120			
<b>Duplicate (2062820-DUP1)</b> Source: H222692-01 Prepared: 27-Jun-22 Analyzed: 28-Jun-22										
TDS	6830	5.00	mg/L		6790			0.558	20	
<b>Batch 2063006 - General Prep - Wet Chem</b>										
<b>Blank (2063006-BLK1)</b> Prepared: 30-Jun-22 Analyzed: 06-Jul-22										
Sulfate	ND	10.0	mg/L							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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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
<b>Batch 2063006 - General Prep - Wet Chem</b>										
<b>LCS (2063006-BS1)</b>				Prepared: 30-Jun-22 Analyzed: 06-Jul-22						
Sulfate	20.4	10.0	mg/L	20.0		102	80-120			
<b>LCS Dup (2063006-BSD1)</b>				Prepared: 30-Jun-22 Analyzed: 06-Jul-22						
Sulfate	19.7	10.0	mg/L	20.0		98.4	80-120	3.74	20	
<b>Batch 2063022 - General Prep - Wet Chem</b>										
<b>Blank (2063022-BLK1)</b>				Prepared & Analyzed: 30-Jun-22						
Chloride	ND	4.00	mg/L							
<b>LCS (2063022-BS1)</b>				Prepared & Analyzed: 30-Jun-22						
Chloride	100	4.00	mg/L	100		100	80-120			
<b>LCS Dup (2063022-BSD1)</b>				Prepared & Analyzed: 30-Jun-22						
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
<b>Batch 2070119 - General Prep - Wet Chem</b>										
<b>LCS (2070119-BS1)</b>				Prepared & Analyzed: 01-Jul-22						
pH	7.13		pH Units	7.00		102	90-110			
Conductivity	100000		uS/cm	100000		100	80-120			
<b>Duplicate (2070119-DUP1)</b>				Source: H222826-01			Prepared & Analyzed: 01-Jul-22			
pH	6.57	0.100	pH Units		6.54			0.458	20	
Conductivity	275000	1.00	umhos/cm @ 25°C		276000			0.508	20	
Temperature °C	20.8		pH Units		20.8			0.00	200	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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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
<b>Batch 2070520 - Filtration</b>										
<b>Blank (2070520-BLK1)</b> Prepared: 05-Jul-22 Analyzed: 06-Jul-22										
TDS	ND	5.00	mg/L							
<b>LCS (2070520-BS1)</b> Prepared: 05-Jul-22 Analyzed: 06-Jul-22										
TDS	851		mg/L	1000		85.1	80-120			
<b>Duplicate (2070520-DUP1)</b> Source: H222826-03 Prepared: 05-Jul-22 Analyzed: 06-Jul-22										
TDS	1060	5.00	mg/L		1080			1.88	20	

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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT #7 WATER SAMPLES Project Manager: BEN DONAHUE Fax To:	Reported: 18-Jul-22 14:31
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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	%REC Limits	RPD	RPD Limit	Notes
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**Batch B221831 - Total Recoverable by ICP**

**Blank (B221831-BLK1)**

Prepared: 11-Jul-22 Analyzed: 13-Jul-22

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

**LCS (B221831-BS1)**

Prepared: 11-Jul-22 Analyzed: 13-Jul-22

Sodium	1.65	1.00	mg/L	1.62		102	85-115			
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115			
Magnesium	9.62	0.100	mg/L	10.0		96.2	85-115			
Calcium	1.87	0.100	mg/L	2.00		93.6	85-115			

**LCS Dup (B221831-BSD1)**

Prepared: 11-Jul-22 Analyzed: 13-Jul-22

Potassium	3.69	1.00	mg/L	4.00		92.4	85-115	7.48	20	
Magnesium	9.17	0.100	mg/L	10.0		91.7	85-115	4.85	20	
Sodium	1.72	1.00	mg/L	1.62		106	85-115	4.15	20	
Calcium	1.79	0.100	mg/L	2.00		89.3	85-115	4.66	20	

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**Notes and Definitions**

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>ETB Water Station</b> Project Manager: <b>Ben Donahue</b> Address: <b>PO Box 5102</b> City: <b>Hubbs</b> State: <b>NM</b> Zip: <b>88241</b> Phone #: <b>575 343 3194</b> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <b>Schubert #7 Water Samples</b> Project Location: <b>Schubert #7 Brine Well</b> Sampler Name: <b>Ben Donahue</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <b>H22824</b> Sample I.D. _____ 1 Brine Water 2 Monitor Well 3 Injection Water		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
Date: <b>7/1/22</b> Time: <b>10:00am</b> Relinquished By: <i>[Signature]</i> Date: _____ Time: _____ Received By: <i>[Signature]</i>		DATE TIME: <b>7/1/22 5:20am</b> <b>7/1/22 5:15am</b> <b>7/1/22 5:25am</b> Cations / Anions	
Delivered By: (Circle One) _____ UPS - Bus - Other: _____ Observed Temp. °C <b>36</b> Corrected Temp. °C <b>31</b> Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Checked By: <i>[Signature]</i>		Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	

† Cardinal cannot accept verbal changes. Please email changes to celeykeene@cardinallabsnm.com

# **2022 QUARTERLY WATER SAMPLES**

**H.R.C. INC.**

**Schubert 7 Well # 1 (BW-031)**

**API 30-025-36781**

**April 1, 2022**

**GARY M. SCHUBERT**

## MONITOR WELL WATER SAMPLE CHEMICAL ANALYSIS DATA

The BW-31 order requires that the specified monitor well be sampled quarterly and chemical analysis results be reported to the OCD. Water samples were pulled on July 1, 2022 from the designated monitor well and taken to Cardinal Laboratories for analysis. Summary of the analyses from July 1, 2022 of Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were no appreciable changes in the designated monitor well water quality since the last sample date, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398- 22-14 for 04/01/2022.

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

Method EPA 552.2 Total Halo acetic 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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix A

**April 1, 2022 RESULTS****MONITOR WELL INORGANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	205		5.00	MG/L	4-4-22	310.1
Alkalinity Carbonate	< 1.00		1.00	MG/L	4-4-22	310.1
Chloride	56		4.00	MG/L	4-5-22	4500.C1.B
Conductivity	674		1.00	US/CM	4-4-22	120.1
pH	7.81		0.100	pH Units	4-4-22	150.1
Sulfate	63.7		25.0	MG/L	4-6-22	375.4
TDS	388		5.00	MG/L	4-5-22	160.1
Alkalinity Total	168		4.00	MG/L	4-4-22	310.1

**MONITOR WELL TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	49.8		0.50	MG/L	4-12-22	EPA200.7
Magnesium	15.4		0.50	MG/L	4-12-22	EPA200.7
Potassium	2.00	.888	5.00	MG/L	4-12-22	EPA200.7
Sodium	59.7		5.00	MG/L	4-12-22	EPA200.7

## **PRODUCED BRINE & INJECTED FRESH WATER CHEMICAL ANALYSIS DATA**

The BW-31 order requires that the produced brine and injected fresh water be sampled quarterly and chemical analysis results be reported to the OCD. Water samples were pulled on April 1, 2022 from the fresh injection water source and the brine production casing at the wellhead. Those samples were taken to Cardinal Laboratories for analysis. Summary of the analyses from April 1, 2022 of Inorganic Compounds and Total Recovery Metals by ICP (E200.7) are shown below. There were no appreciable changes in both the produced brine chemistry and injected fresh water chemistry since the last sampling, and as compared to 2021.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398- 22-14 for 04/01/2022.

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

Method EPA 552.2 Total Halo acetic 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 Halo acetic Acids (HAA-5)

Full details of the analytical results are attached at the end of this report in Appendix A.

**BRINE ANALYTICAL RESULTS: April 1, 2022****INORGANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Alkalinity, Bicarbonate	254		5.00	MG/L	4-4-22	310.1
Alkalinity Carbonate	<1.00		1.00	MG/L	4-4-22	310.1
Chloride	204,000		4.00	MG/L	4-5-22	4500.C1.B
Conductivity	279,000		1.00	UMHOS/CM	4-4-22	120.1
pH	6.57		0.100	Ph Units	4-4-22	150.1
Sulfate	7010		1250	MG/L	4-6-22	375.4
TDS	328,000		5.00	MG/L	4-5-22	160.1
Alkalinity Total	208		4.00	MG/L	4-4-22	310.1

**TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed Date	Method
Calcium	1050		50.0	MG/L	4-8-22	EPA 200.7
Magnesium	757		50.0	MG/L	4-8-22	EPA200.7
Potassium	1450	88.8	500	MG/L	4-8-22	EPA 200.7
Sodium	113,000		500	MG/L	4-8-22	EPA 200.7

**FRESH INJECTION WATER ANALYTICAL RESULTS: APRIL 1, 2022****INORGANIC COMPOUNDS**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed	Method
Alkalinity, Bicarbonate	249		5.00	MG/L	4-4-22	310.1
Alkalinity Carbonate	<1.00		1.00	MG/L	4-4-22	310.1
Chloride	470		4.00	MG/L	4-5-22	4500.C1.B
Conductivity	2760		1.00	UMHOS/CM	4-4-22	120.1
pH	7.15		0.100	pH units	4-4-22	150.1
Sulfate	623		125	MG/L	4-6-22	375.4
TDS	1740		5.00	MG/L	4-5-22	160.1
Alkalinity Total	204		4.00	MG/L	4-4-22	310.1

**TOTAL RECOVERABLE METALS by ICP (E220.7)**

Analyte	Result	MDL	Reporting Limit	Units	Analyzed	Method
Calcium	246		0.50	MG/L	4-8-22	EPA 200.7
Magnesium	78.6		0.50	MG/L	4-8-22	EPA 200.7
Potassium	8.92	.888	5.00	MG/L	4-8-22	EPA 200.7
Sodium	231		5.00	MG/L	4-8-22	EPA 200.7

# APPENDIX A



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

April 13, 2022  
BEN DONAHUE  
ETZ WATER STATION  
PO BOX 6056  
HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 04/01/22 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/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 (ColiIert 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



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

**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H221318-01	Water	01-Apr-22 08:45	01-Apr-22 15:09
BRINE WATER	H221318-02	Water	01-Apr-22 09:00	01-Apr-22 15:09
MONITOR WELL	H221318-03	Water	01-Apr-22 08:35	01-Apr-22 15:09

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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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**FRESH WATER  
H221318-01 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	249		5.00	mg/L	1	2021401	GM	04-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2021401	GM	04-Apr-22	310.1	
Chloride*	470		4.00	mg/L	1	2040418	AC	05-Apr-22	4500-Cl-B	
Conductivity*	2760		1.00	umhos/cm @ 25°C	1	2040417	GM	04-Apr-22	120.1	
pH*	7.15		0.100	pH Units	1	2040417	GM	04-Apr-22	150.1	
Temperature °C	23.3			pH Units	1	2040417	GM	04-Apr-22	150.1	
Sulfate*	623		125	mg/L	12.5	2040416	GM	06-Apr-22	375.4	
TDS*	1740		5.00	mg/L	1	2040104	GM	06-Apr-22	160.1	
Alkalinity, Total*	204		4.00	mg/L	1	2021401	GM	04-Apr-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	246		0.500	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	
Magnesium*	78.6		0.500	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	
Potassium*	8.92	0.888	5.00	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	
Sodium*	231		5.00	mg/L	5	B220889	AES	08-Apr-22	EPA200.7	

Cardinal Laboratories

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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**BRINE WATER  
H221318-02 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	254		5.00	mg/L	1	2021401	GM	04-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2021401	GM	04-Apr-22	310.1	
Chloride*	204000		4.00	mg/L	1	2040418	AC	05-Apr-22	4500-Cl-B	
Conductivity*	279000		1.00	umhos/cm @ 25°C	1	2040417	GM	04-Apr-22	120.1	
pH*	6.57		0.100	pH Units	1	2040417	GM	04-Apr-22	150.1	
Temperature °C	23.4			pH Units	1	2040417	GM	04-Apr-22	150.1	
Sulfate*	7010		1250	mg/L	125	2040416	GM	06-Apr-22	375.4	
TDS*	328000		5.00	mg/L	1	2040104	GM	05-Apr-22	160.1	
Alkalinity, Total*	208		4.00	mg/L	1	2021401	GM	04-Apr-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	1050		50.0	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	
Magnesium*	757		50.0	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	
Potassium*	1450	88.8	500	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	
Sodium*	113000		500	mg/L	500	B220889	AES	08-Apr-22	EPA200.7	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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**MONITOR WELL  
H221318-03 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	205		5.00	mg/L	1	2040415	GM	04-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2040415	GM	04-Apr-22	310.1	
Chloride*	56.0		4.00	mg/L	1	2040418	AC	05-Apr-22	4500-Cl-B	
Conductivity*	674		1.00	umhos/cm @ 25°C	1	2040417	GM	04-Apr-22	120.1	
pH*	7.81		0.100	pH Units	1	2040417	GM	04-Apr-22	150.1	
Temperature °C	23.3			pH Units	1	2040417	GM	04-Apr-22	150.1	
Sulfate*	63.7		25.0	mg/L	2.5	2040416	GM	06-Apr-22	375.4	
TDS*	388		5.00	mg/L	1	2040104	GM	05-Apr-22	160.1	
Alkalinity, Total*	168		4.00	mg/L	1	2040415	GM	04-Apr-22	310.1	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	49.8		0.500	mg/L	5	B220910	AES	12-Apr-22	EPA200.7	
Magnesium*	15.4		0.500	mg/L	5	B220910	AES	12-Apr-22	EPA200.7	
Potassium*	2.08	0.888	5.00	mg/L	5	B220910	AES	12-Apr-22	EPA200.7	J
Sodium*	59.7		5.00	mg/L	5	B220910	AES	12-Apr-22	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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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
<b>Batch 2021401 - General Prep - Wet Chem</b>										
<b>Blank (2021401-BLK1)</b> Prepared & Analyzed: 14-Feb-22										
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
<b>LCS (2021401-BS1)</b> Prepared & Analyzed: 14-Feb-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			
<b>LCS Dup (2021401-BSD1)</b> Prepared & Analyzed: 14-Feb-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	4.02	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	3.92	20	
<b>Batch 2040104 - Filtration</b>										
<b>Blank (2040104-BLK1)</b> Prepared: 01-Apr-22 Analyzed: 04-Apr-22										
TDS	ND	5.00	mg/L							
<b>LCS (2040104-BS1)</b> Prepared: 01-Apr-22 Analyzed: 05-Apr-22										
TDS	532		mg/L	500		106	80-120			
<b>Duplicate (2040104-DUP1)</b> Source: H221301-02 Prepared: 01-Apr-22 Analyzed: 04-Apr-22										
TDS	531	5.00	mg/L		501			5.81	20	
<b>Batch 2040415 - General Prep - Wet Chem</b>										
<b>Blank (2040415-BLK1)</b> Prepared & Analyzed: 04-Apr-22										
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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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
<b>Batch 2040415 - General Prep - Wet Chem</b>										
<b>LCS (2040415-BS1)</b> Prepared & Analyzed: 04-Apr-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	280	12.5	mg/L				80-120			
Alkalinity, Total	230	10.0	mg/L	250		92.0	80-120			
<b>LCS Dup (2040415-BSD1)</b> Prepared & Analyzed: 04-Apr-22										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120	4.37	20	
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120	4.26	20	
<b>Batch 2040416 - General Prep - Wet Chem</b>										
<b>Blank (2040416-BLK1)</b> Prepared: 04-Apr-22 Analyzed: 06-Apr-22										
Sulfate	ND	10.0	mg/L							
<b>LCS (2040416-BS1)</b> Prepared: 04-Apr-22 Analyzed: 06-Apr-22										
Sulfate	19.5	10.0	mg/L	20.0		97.6	80-120			
<b>LCS Dup (2040416-BSD1)</b> Prepared: 04-Apr-22 Analyzed: 06-Apr-22										
Sulfate	19.1	10.0	mg/L	20.0		95.6	80-120	2.17	20	
<b>Batch 2040417 - General Prep - Wet Chem</b>										
<b>LCS (2040417-BS1)</b> Prepared & Analyzed: 04-Apr-22										
Conductivity	101000		uS/cm	100000		101	80-120			
pH	7.11		pH Units	7.00		102	90-110			

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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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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
<b>Batch 2040417 - General Prep - Wet Chem</b>										
<b>Duplicate (2040417-DUP1)</b>		<b>Source: H221318-01</b>			<b>Prepared &amp; Analyzed: 04-Apr-22</b>					
Conductivity	2770	1.00	umhos/cm @ 25°C		2760			0.362	20	
pH	7.19	0.100	pH Units		7.15			0.558	20	
Temperature °C	23.4		pH Units		23.3			0.428	200	
<b>Batch 2040418 - General Prep - Wet Chem</b>										
<b>Blank (2040418-BLK1)</b>		<b>Prepared &amp; Analyzed: 05-Apr-22</b>								
Chloride	ND	4.00	mg/L							
<b>LCS (2040418-BS1)</b>		<b>Prepared &amp; Analyzed: 05-Apr-22</b>								
Chloride	100	4.00	mg/L	100		100	80-120			
<b>LCS Dup (2040418-BSD1)</b>		<b>Prepared &amp; Analyzed: 05-Apr-22</b>								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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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
<b>Batch B220889 - Total Recoverable by ICP</b>										
<b>Blank (B220889-BLK1)</b> Prepared: 07-Apr-22 Analyzed: 08-Apr-22										
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
<b>LCS (B220889-BS1)</b> Prepared: 07-Apr-22 Analyzed: 08-Apr-22										
Sodium	1.55	1.00	mg/L	1.62		95.7	85-115			
Calcium	1.97	0.100	mg/L	2.00		98.6	85-115			
Potassium	4.07	1.00	mg/L	4.00		102	85-115			
Magnesium	10.3	0.100	mg/L	10.0		103	85-115			
<b>LCS Dup (B220889-BSD1)</b> Prepared: 07-Apr-22 Analyzed: 08-Apr-22										
Sodium	1.50	1.00	mg/L	1.62		92.4	85-115	3.57	20	
Potassium	4.00	1.00	mg/L	4.00		100	85-115	1.68	20	
Calcium	1.91	0.100	mg/L	2.00		95.4	85-115	3.33	20	
Magnesium	9.95	0.100	mg/L	10.0		99.5	85-115	2.98	20	
<b>Batch B220910 - Total Recoverable by ICP</b>										
<b>Blank (B220910-BLK1)</b> Prepared: 11-Apr-22 Analyzed: 12-Apr-22										
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
<b>LCS (B220910-BS1)</b> Prepared: 11-Apr-22 Analyzed: 12-Apr-22										
Magnesium	10.7	0.100	mg/L	10.0		107	85-115			
Potassium	4.11	1.00	mg/L	4.00		103	85-115			
Sodium	1.55	1.00	mg/L	1.62		95.8	85-115			
Calcium	2.10	0.100	mg/L	2.00		105	85-115			

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ETZ WATER STATION PO BOX 6056 HOBBS NM, 88241	Project: SCHUBERT Project Number: SHUBERT 7 Project Manager: BEN DONAHUE Fax To:	Reported: 13-Apr-22 13:44
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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	%REC Limits	RPD	RPD Limit	Notes
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**Batch B220910 - Total Recoverable by ICP**

**LCS Dup (B220910-BSD1)**

Prepared: 11-Apr-22 Analyzed: 12-Apr-22

Magnesium	10.6	0.100	mg/L	10.0		106	85-115	0.696	20	
Potassium	4.11	1.00	mg/L	4.00		103	85-115	0.165	20	
Calcium	2.09	0.100	mg/L	2.00		105	85-115	0.206	20	
Sodium	1.53	1.00	mg/L	1.62		94.4	85-115	1.44	20	

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**Notes and Definitions**

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>ET2 Water Station</u> Project Manager: <u>Ben Donahue</u> Address: <u>P.O. Box 5162</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u> Phone #: <u>575 393-3144</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Schuba 7 Water Samples</u> Project Location: <u>Schuba #7 Brite Well</u> Sampler Name: <u>Ben Donahue</u>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. _____ Sample I.D. _____ H221318 1 Fresh Water 2 Brite Water 3 Monitor Well		(G)RAB OR (C)OMP _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
DATE: _____ TIME: _____ Relinquished By: <u>[Signature]</u> Relinquished By: _____ Date: _____ Time: _____ Received By: <u>[Signature]</u> Received By: _____ Date: _____ Time: _____		DATE: _____ TIME: _____ 4/1/22 8:45a 4/1/22 9:00a 4/1/22 8:35a Cation / Anion	
Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>3.1</u> Corrected Temp. °C: <u>8.6</u> Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____ (Initials) Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: _____	
REMARKS: <u>gacms@cardinal.com</u> Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emailed. Please provide Email address: _____ Email address: _____ Thermometer ID #113 Correction Factor -0.5°C			

† Cardinal cannot accept verbal changes. Please email changes to celay/keene@cardinallabsnm.com

# **SUBSIDENCE MONITORING PLAN**

**H.R.C. INC.**

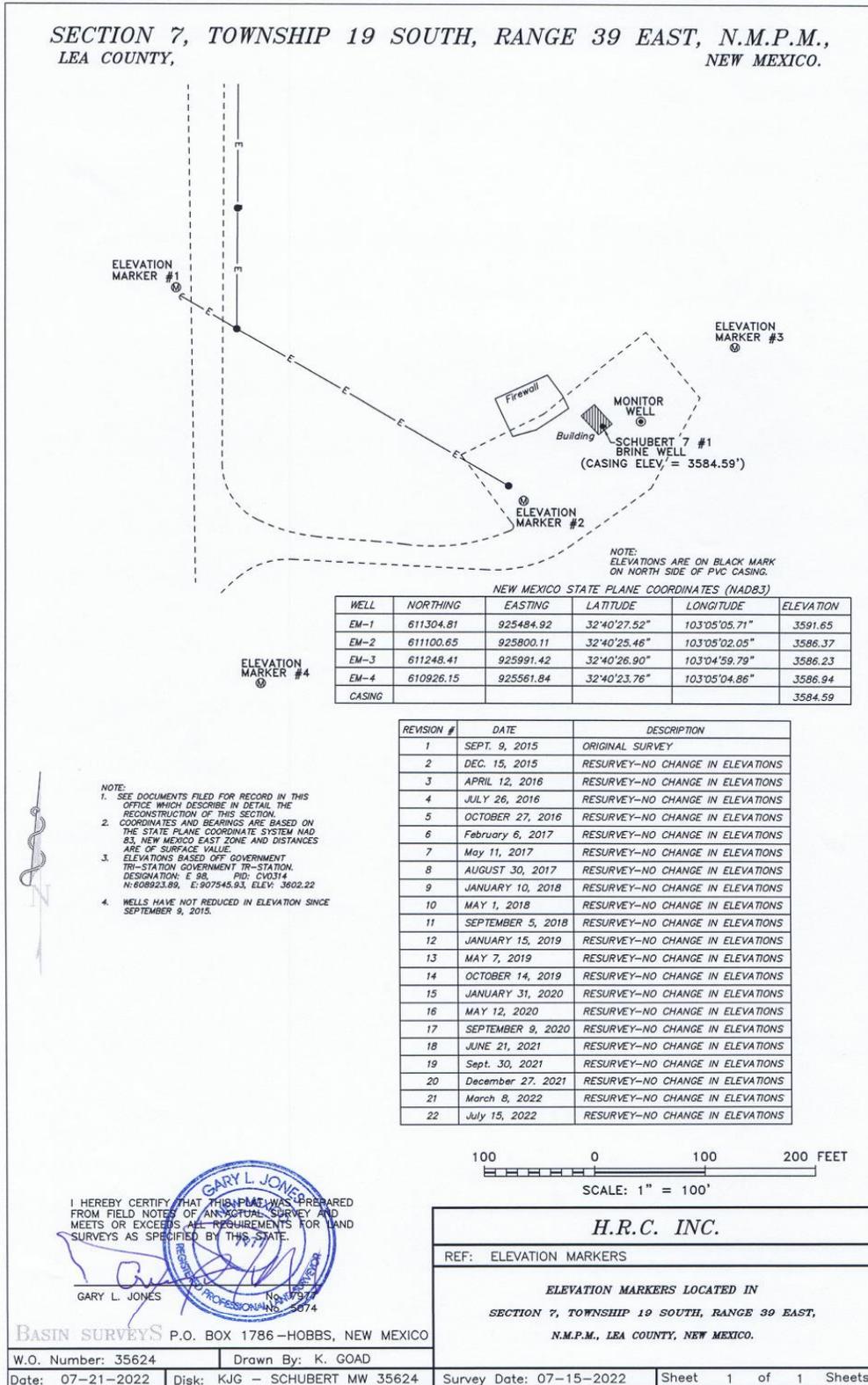
**Schubert 7 Well # 1 (BW-031)**

**API 30-025-36781**

**JULY 15, 2022**

**GARY M. SCHUBERT**

APPENDIX A



**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**

COMMENTS

Action 141491

**COMMENTS**

Operator: HRC INC P.O. Box 5102 Hobbs, NM 88241	OGRID: 131652
	Action Number: 141491
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

**COMMENTS**

Created By	Comment	Comment Date
cchavez	BW-31 Various Reporting Submittals 8-15-2022	9/8/2022

**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

Action 141491

**CONDITIONS**

Operator: HRC INC P.O. Box 5102 Hobbs, NM 88241	OGRID: 131652
	Action Number: 141491
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

**CONDITIONS**

Created By	Condition	Condition Date
cchavez	Need to also work to maintain brine production data via Form C-115	9/8/2022