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State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-045-29936	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Vasaly SWD	
8. Well Number 2	
9. OGRID Number 372171	
10. Pool name or Wildcat SWD: Morrison Bluff Entrada	
4. Well Location Unit Letter B : 1200' feet from the North line and 2390' feet from the East line Section 22 Township 30N Range 11W NMPM County San Juan	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5856'	

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK  PLUG AND ABANDON   
 TEMPORARILY ABANDON  CHANGE PLANS   
 PULL OR ALTER CASING  MULTIPLE COMPL   
 DOWNHOLE COMMINGLE   
 CLOSED-LOOP SYSTEM   
 OTHER:  Add Water Source

## SUBSEQUENT REPORT OF:

REMEDIAL WORK  ALTERING CASING   
 COMMENCE DRILLING OPNS.  P AND A   
 CASING/CEMENT JOB   
 OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy Company is requesting a Change in Source for the Vasaly SWD 2 (30-045-29936) to include flowback and produced water injection from the Mancos formation from the following wells:

## Allison 601 Pad:

- Allison 601 Federal Com 601H; 30-045-38443 / • Allison 601 Federal Com 602H; 30-045-38444 / • Allison 601 Federal Com 603H; 30-045-38445
- Allison 601 Federal Com 604H; 30-045-38448 / • Allison 602 Federal Com 605H; 30-045-38449 / • Allison 602 Federal Com 606H; 30-045-38450
- Allison 701 Federal Com 607H; 30-045-38446 / • Allison 701 Federal Com 608H; 30-045-38447

## Allison 611 Pad:

- Allison Unit 611H; 30-045-38326 / • Allison Unit 630H; 05-067-10060/30-045-38410 / • Allison Unit 631H; 05-067-10062/30-045-38411
- Allison Unit 632H; 05-067-10063/30-045-38453 / • Allison Unit 633H; 05-067-10061/30-045-38454 / • Allison Unit 614H; API TBD

Initial incremental injection rate into the SWD is roughly 1,500 bwpd starting July 2026. Analytical produced water results, representative of the new source are attached.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Operations/Regulatory Tech - Sr. DATE 10/10/2025

Type or print name Amanda Walker E-mail address: [mwalker@hilcorp.com](mailto:mwalker@hilcorp.com) PHONE: 346-237-2177  
**For State Use Only**

APPROVED BY: TITLE DATE  
 Conditions of Approval (if any):



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

06 June 2025

Ashley Bates  
Hilcorp  
382 CR 3100  
Aztec, NM 87410  
RE: Burnt Mesa Pad

Enclosed are the results of analyses for samples received by the laboratory on 05/23/25 13:48. 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,

A handwritten signature in blue ink that reads "Jeremy D. Allen".

Report Station For Jeremy D Allen  
Laboratory Director

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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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Burnt Mesa Fed Com Unit 602H	2505388-01	Water	05/22/25 10:00	05/23/25 13:48	
San Juan 32-7 #603 Fed Com Unit 607H	2505388-02	Water	05/22/25 10:00	05/23/25 13:48	
Burnt Mesa Fed Com Unit 604H	2505388-03	Water	05/22/25 10:00	05/23/25 13:48	
San Juan 32-7 #602 Fed Com Unit 603H	2505388-04	Water	05/22/25 10:00	05/23/25 13:48	
San Juan 32-7 #603 Fed Com Unit 613H	2505388-05	Water	05/22/25 10:00	05/23/25 13:48	
San Juan 32-7 #603 Fed Com Unit 613H tank	2505388-06	Water	05/22/25 10:00	05/23/25 13:48	
Abeyta 17-1	2505388-07	Water	05/22/25 13:00	05/23/25 13:48	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Report Station For Jeremy D Allen, Laboratory Director

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### Burnt Mesa Fed Com Unit 602H

**2505388-01 (Produced Water)**

**Sampled Date: 05/22/25 10:00**

**Sampled By: Ashley Bates**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	<b>415</b>	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES	
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES	
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES	
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	<b>415</b>	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES	
Chloride*	<b>12500</b>	200	99.4	mg/L	200	06/04/25 03:45	EPA 300.0	AWG	
Conductivity*	<b>36700</b>	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC	
pH*	<b>6.45</b>			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1	HIC
pH Temperature, degrees C	<b>17.8</b>			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1	HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:12	EPA 365.1	HIC	
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:12	EPA 365.1/Calc	HIC	
Resistivity	<b>27.2</b>			ohm/cm	1	05/29/25 17:27	2510 B	JDA	
Specific Gravity	<b>1.017</b>	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC	
Sulfate*	<b>17.6</b>	20.0	11.3	mg/L	20	06/04/25 14:02	EPA 300.0	J	AWG
Total Dissolved Solids*	<b>23200</b>	80.0		mg/L	8	05/29/25 16:02	EPA 160.1/SM 2540C	HIC	

#### Potentially Dissolved Metals by ICP

Barium*	<b>24.1</b>	0.400	0.157	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Calcium*	<b>492</b>	2.00	1.45	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Hardness, as CaCO <sub>3</sub>	<b>1470</b>	13.2	10.1	mg/L	20	06/02/25 16:11	2340 B	AWG	
Iron*	<b>140</b>	1.00	0.692	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Magnesium*	<b>57.6</b>	2.00	1.59	mg/L	20	06/02/25 16:11	EPA 200.7	M5	AWG
Manganese*	<b>1.14</b>	0.400	0.084	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Potassium*	<b>35.6</b>	20.0	3.62	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Silica (SiO <sub>2</sub> )	<b>94.3</b>	21.4	0.416	mg/L	20	06/02/25 16:11	Calculation	AWG	
Silicon	<b>44.1</b>	10.0	0.195	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Sodium*	<b>7720</b>	20.0	15.1	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Strontium*	<b>88.0</b>	2.00	0.230	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:11	EPA 200.7	AWG	

Green Analytical Laboratories

A handwritten signature in blue ink that reads "Jeremy D. Allen".

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### San Juan 32-7 #603 Fed Com Unit 607H

2505388-02 (Produced Water)

Sampled Date: 05/22/25 10:00

Sampled By: Ashley Bates

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	425	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	425	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	12200	200	99.4	mg/L	200	06/04/25 04:10	EPA 300.0	AWG
Conductivity*	35600	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC
pH*	6.45			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
pH Temperature, degrees C	17.2			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:12	EPA 365.1	HIC
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:12	EPA 365.1/Calc	HIC
Resistivity	28.1			ohm/cm	1	05/29/25 17:27	2510 B	JDA
Specific Gravity	1.015	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC
Sulfate*	20.1	20.0	11.3	mg/L	20	06/04/25 14:27	EPA 300.0	AWG
Total Dissolved Solids*	23000	80.0		mg/L	8	05/29/25 16:06	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Barium*	22.2	0.400	0.157	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Calcium*	458	2.00	1.45	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Hardness, as CaCO <sub>3</sub>	1350	13.2	10.1	mg/L	20	06/02/25 16:23	2340 B	AWG
Iron*	143	1.00	0.692	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Magnesium*	50.8	2.00	1.59	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Manganese*	1.81	0.400	0.084	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Potassium*	39.3	20.0	3.62	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Silica (SiO <sub>2</sub> )	93.1	21.4	0.416	mg/L	20	06/02/25 16:23	Calculation	AWG
Silicon	43.5	10.0	0.195	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Sodium*	7430	20.0	15.1	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Strontium*	81.0	2.00	0.230	mg/L	20	06/02/25 16:23	EPA 200.7	AWG
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:23	EPA 200.7	AWG

Green Analytical Laboratories

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Report Station For Jeremy D Allen, Laboratory Director

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### Burnt Mesa Fed Com Unit 604H

2505388-03 (Produced Water)

Sampled Date: 05/22/25 10:00

Sampled By: Ashley Bates

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	375	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	375	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	14000	200	99.4	mg/L	200	06/04/25 04:34	EPA 300.0	AWG
Conductivity*	37700	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC
pH*	6.48			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
pH Temperature, degrees C	18.8			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:13	EPA 365.1	HIC
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:13	EPA 365.1/Calc	HIC
Resistivity	26.5			ohm/cm	1	05/29/25 17:27	2510 B	JDA
Specific Gravity	1.016	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC
Sulfate*	17.4	20.0	11.3	mg/L	20	06/04/25 14:51	EPA 300.0	J AWG
Total Dissolved Solids*	24100	80.0		mg/L	8	05/29/25 16:08	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Barium*	25.3	0.400	0.157	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Calcium*	524	2.00	1.45	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Hardness, as CaCO <sub>3</sub>	1550	13.2	10.1	mg/L	20	06/02/25 16:27	2340 B	AWG
Iron*	97.2	1.00	0.692	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Magnesium*	57.8	2.00	1.59	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Manganese*	1.22	0.400	0.084	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Potassium*	37.7	20.0	3.62	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Silica (SiO <sub>2</sub> )	90.1	21.4	0.416	mg/L	20	06/02/25 16:27	Calculation	AWG
Silicon	42.1	10.0	0.195	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Sodium*	7760	20.0	15.1	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Strontium*	91.6	2.00	0.230	mg/L	20	06/02/25 16:27	EPA 200.7	AWG
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:27	EPA 200.7	AWG

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### San Juan 32-7 #602 Fed Com Unit 603H

2505388-04 (Produced Water)

Sampled Date: 05/22/25 10:00

Sampled By: Ashley Bates

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	335	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	335	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	13400	200	99.4	mg/L	200	06/04/25 04:59	EPA 300.0	AWG
Conductivity*	36300	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC
pH*	6.43			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
pH Temperature, degrees C	17.5			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:14	EPA 365.1	HIC
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:14	EPA 365.1/Calc	HIC
Resistivity	27.5			ohm/cm	1	05/29/25 17:27	2510 B	JDA
Specific Gravity	1.015	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC
Sulfate*	16.3	20.0	11.3	mg/L	20	06/04/25 15:15	EPA 300.0	J AWG
Total Dissolved Solids*	22600	80.0		mg/L	8	05/29/25 16:10	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Barium*	25.6	0.400	0.157	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Calcium*	531	2.00	1.45	mg/L	20	06/02/25 16:30	EPA 200.7	AWG
Hardness, as CaCO <sub>3</sub>	1570	13.2	10.1	mg/L	20	06/02/25 16:31	2340 B	AWG
Iron*	241	1.00	0.692	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Magnesium*	58.4	2.00	1.59	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Manganese*	2.57	0.400	0.084	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Potassium*	37.9	20.0	3.62	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Silica (SiO <sub>2</sub> )	83.3	21.4	0.416	mg/L	20	06/02/25 16:31	Calculation	AWG
Silicon	39.0	10.0	0.195	mg/L	20	06/02/25 16:31	EPA 200.7	AWG
Sodium*	7600	20.0	15.1	mg/L	20	06/02/25 16:30	EPA 200.7	AWG
Strontium*	90.0	2.00	0.230	mg/L	20	06/02/25 16:30	EPA 200.7	AWG
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:31	EPA 200.7	AWG

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### San Juan 32-7 #603 Fed Com Unit 613H

2505388-05 (Produced Water)

Sampled Date: 05/22/25 10:00

Sampled By: Ashley Bates

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	405	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	405	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	13400	200	99.4	mg/L	200	06/04/25 05:23	EPA 300.0	AWG
Conductivity*	38200	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC
pH*	6.55			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
pH Temperature, degrees C	17.9			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:14	EPA 365.1	HIC
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:14	EPA 365.1/Calc	HIC
Resistivity	26.2			ohm/cm	1	05/29/25 17:27	2510 B	JDA
Specific Gravity	1.015	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC
Sulfate*	15.0	20.0	11.3	mg/L	20	06/04/25 15:40	EPA 300.0	J AWG
Total Dissolved Solids*	23000	80.0		mg/L	8	05/29/25 16:12	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Barium*	24.9	0.400	0.157	mg/L	20	06/02/25 16:35	EPA 200.7	AWG
Calcium*	509	2.00	1.45	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Hardness, as CaCO <sub>3</sub>	1510	13.2	10.1	mg/L	20	06/02/25 16:34	2340 B	AWG
Iron*	98.3	1.00	0.692	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:35	EPA 200.7	AWG
Magnesium*	57.1	2.00	1.59	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Manganese*	1.04	0.400	0.084	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Potassium*	37.1	20.0	3.62	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Silica (SiO <sub>2</sub> )	90.4	21.4	0.416	mg/L	20	06/02/25 16:34	Calculation	AWG
Silicon	42.3	10.0	0.195	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Sodium*	7600	20.0	15.1	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Strontium*	88.5	2.00	0.230	mg/L	20	06/02/25 16:34	EPA 200.7	AWG
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:35	EPA 200.7	AWG

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### San Juan 32-7 #603 Fed Com Unit 613H tank

2505388-06 (Produced Water)

Sampled Date: 05/22/25 10:00

Sampled By: Ashley Bates

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	390	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	390	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	13800	200	99.4	mg/L	200	06/04/25 05:48	EPA 300.0	AWG
Conductivity*	35500	1.00		umho/cm@25 C	1	05/29/25 16:53	2510 B	HIC
pH*	6.44			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
pH Temperature, degrees C	18.3			pH Units	1	05/29/25 16:18	EPA 150.1/9040C	H1 HIC
Phosphorus, Total	<0.250	0.250	0.108	mg P/L	5	06/03/25 11:17	EPA 365.1	HIC
Phosphate (PO <sub>4</sub> )	<0.330	0.768	0.330	mg/L	5	06/03/25 11:17	EPA 365.1/Calc	HIC
Resistivity	28.2			ohm/cm	1	05/29/25 17:27	2510 B	JDA
Specific Gravity	1.014	0.8000		No Unit	1	05/30/25 16:47	ASTM D1429-03	HIC
Sulfate*	15.1	20.0	11.3	mg/L	20	06/04/25 16:04	EPA 300.0	J AWG
Total Dissolved Solids*	22300	80.0		mg/L	8	05/29/25 16:14	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Barium*	22.8	0.400	0.157	mg/L	20	06/02/25 16:39	EPA 200.7	AWG
Calcium*	473	2.00	1.45	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Hardness, as CaCO <sub>3</sub>	1400	13.2	10.1	mg/L	20	06/02/25 16:38	2340 B	AWG
Iron*	96.3	1.00	0.692	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Lead*	<2.00	2.00	0.211	mg/L	20	06/02/25 16:39	EPA 200.7	AWG
Magnesium*	53.8	2.00	1.59	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Manganese*	0.934	0.400	0.084	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Potassium*	36.4	20.0	3.62	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Silica (SiO <sub>2</sub> )	84.2	21.4	0.416	mg/L	20	06/02/25 16:38	Calculation	AWG
Silicon	39.4	10.0	0.195	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Sodium*	7390	20.0	15.1	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Strontium*	83.9	2.00	0.230	mg/L	20	06/02/25 16:38	EPA 200.7	AWG
Zinc*	<2.00	2.00	0.137	mg/L	20	06/02/25 16:39	EPA 200.7	AWG

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

**Reported:**  
06/06/25 10:13

### Abeyta 17-1

**2505388-07 (Produced Water)**

**Sampled Date: 05/22/25 13:00**

**Sampled By: Ashley Bates**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Total as CaCO <sub>3</sub> *	<b>635</b>	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	<b>635</b>	10.0	5.55	mg/L	5	06/04/25 15:13	2320 B	AES
Chloride*	<b>15400</b>	200	99.4	mg/L	200	06/04/25 06:12	EPA 300.0	AWG
Sulfate*	<11.3	20.0	11.3	mg/L	20	06/04/25 17:18	EPA 300.0	AWG
Total Dissolved Solids*	<b>26600</b>	80.0		mg/L	8	05/29/25 16:16	EPA 160.1/SM 2540C	HIC

#### Potentially Dissolved Metals by ICP

Calcium*	<b>145</b>	2.00	1.45	mg/L	20	06/02/25 16:42	EPA 200.7	AWG
Iron*	<b>236</b>	1.00	0.692	mg/L	20	06/02/25 16:42	EPA 200.7	AWG
Magnesium*	<b>38.8</b>	2.00	1.59	mg/L	20	06/02/25 16:42	EPA 200.7	AWG
Sodium*	<b>9370</b>	20.0	15.1	mg/L	20	06/02/25 16:42	EPA 200.7	AWG

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382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

**Reported:**  
06/06/25 10:13

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch B251452 - Lachat

<b>Blank (B251452-BLK1)</b>	Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	ND	0.0500	mg P/L						
<b>LCS (B251452-BS1)</b>	Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.69	0.0500	mg P/L	2.50		108	90-110		
<b>LCS Dup (B251452-BSD1)</b>	Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.62	0.0500	mg P/L	2.50		105	90-110	2.60	20
<b>Matrix Spike (B251452-MS1)</b>	Source: 2505370-15 Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.70	0.0500	mg P/L	2.50	0.0301	107	90-110		
<b>Matrix Spike (B251452-MS2)</b>	Source: 2505370-16 Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.64	0.0500	mg P/L	2.50	0.0299	104	90-110		
<b>Matrix Spike Dup (B251452-MSD1)</b>	Source: 2505370-15 Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.70	0.0500	mg P/L	2.50	0.0301	107	90-110	0.0370	20
<b>Matrix Spike Dup (B251452-MSD2)</b>	Source: 2505370-16 Prepared: 05/29/25 Analyzed: 06/03/25								
Phosphorus, Total	2.62	0.0500	mg P/L	2.50	0.0299	103	90-110	0.724	20

#### Batch B251459 - General Prep - Wet Chem

<b>Blank (B251459-BLK1)</b>	Prepared & Analyzed: 05/29/25								
Total Dissolved Solids	ND	10.0	mg/L						
<b>Duplicate (B251459-DUP1)</b>	Source: 2505388-01 Prepared & Analyzed: 05/29/25								
Total Dissolved Solids	23100	80.0	mg/L		23200			0.521	20
<b>Reference (B251459-SRM1)</b>	Prepared & Analyzed: 05/29/25								
Total Dissolved Solids	365	10.0	mg/L	400		91.2	85-115		

#### Batch B251468 - General Prep - Wet Chem

<b>Duplicate (B251468-DUP1)</b>	Source: 2505388-01 Prepared & Analyzed: 05/30/25								
Specific Gravity	1.017	0.8000	No Unit		1.017			0.00	20

#### Batch B251494 - General Prep - Wet Chem

<b>Duplicate (B251494-DUP1)</b>	Source: 2505396-01 Prepared & Analyzed: 05/29/25								
pH	7.32		pH Units		7.27			0.685	20
pH Temperature, degrees C	19.2		pH Units		19.0			1.05	200

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Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B251494 - General Prep - Wet Chem (Continued)**

Duplicate (B251494-DUP2)		Source: 2505388-03		Prepared & Analyzed: 05/29/25					
pH	6.51		pH Units		6.48			0.462	20
pH Temperature, degrees C	18.7		pH Units		18.8			0.533	200

Reference (B251494-SRM1)		Prepared & Analyzed: 05/29/25				
pH	6.93		pH Units	7.00	99.0	98.57-101.42

**Batch B251505 - IC- Ion Chromatograph**

Blank (B251505-BLK1)		Prepared & Analyzed: 06/03/25				
Chloride	ND	1.00	mg/L			
Sulfate	ND	1.00	mg/L			

LCS (B251505-BS1)		Prepared & Analyzed: 06/03/25				
Chloride	25.8	1.00	mg/L	25.0	103	90-110
Sulfate	26.0	1.00	mg/L	25.0	104	90-110

LCS Dup (B251505-BSD1)		Prepared & Analyzed: 06/03/25				
Chloride	24.7	1.00	mg/L	25.0	98.9	90-110
Sulfate	24.9	1.00	mg/L	25.0	99.6	90-110

Matrix Spike (B251505-MS1)		Source: 2505324-01 Prepared & Analyzed: 06/03/25				
Chloride	23.6	1.00	mg/L	25.0	0.549	92.3
Sulfate	159	1.00	mg/L	25.0	137	84.8

Matrix Spike (B251505-MS2)		Source: 2505333-01 Prepared: 06/03/25 Analyzed: 06/04/25				
Chloride	31.2	1.00	mg/L	25.0	6.70	97.9
Sulfate	40.2	1.00	mg/L	25.0	16.1	96.4

Matrix Spike Dup (B251505-MSD1)		Source: 2505324-01 Prepared & Analyzed: 06/03/25				
Chloride	24.2	1.00	mg/L	25.0	0.549	94.4
Sulfate	160	1.00	mg/L	25.0	137	90.1

Matrix Spike Dup (B251505-MSD2)		Source: 2505333-01 Prepared: 06/03/25 Analyzed: 06/04/25				
Chloride	31.9	1.00	mg/L	25.0	6.70	101
Sulfate	41.1	1.00	mg/L	25.0	16.1	100

**Batch B251530 - General Prep - Wet Chem**

Blank (B251530-BLK1)		Prepared & Analyzed: 06/04/25				
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L			
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L			
Alkalinity, Total as CaCO3	ND	10.0	mg/L			

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Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

**Reported:**  
06/06/25 10:13

**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B251530 - General Prep - Wet Chem (Continued)**

<b>LCS (B251530-BS1)</b>	Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	100	10.0	mg/L	100	100	85-115			
<b>LCS Dup (B251530-BSD1)</b>	Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	101	10.0	mg/L	100	101	85-115	0.995	20	
<b>Matrix Spike (B251530-MS1)</b>	Source: 2505370-10 Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	163	10.0	mg/L	100	66.0	97.0	80-120		
<b>Matrix Spike (B251530-MS2)</b>	Source: 2505370-11 Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	163	10.0	mg/L	100	72.0	91.0	80-120		
<b>Matrix Spike Dup (B251530-MSD1)</b>	Source: 2505370-10 Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	167	10.0	mg/L	100	66.0	101	80-120	2.42	20
<b>Matrix Spike Dup (B251530-MSD2)</b>	Source: 2505370-11 Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	168	10.0	mg/L	100	72.0	96.0	80-120	3.02	20
<b>Reference (B251530-SRM1)</b>	Prepared & Analyzed: 06/04/25								
Alkalinity, Total as CaCO <sub>3</sub>	103	10.0	mg/L	100	103	85-115			

**Batch B251532 - General Prep - Wet Chem**

<b>Duplicate (B251532-DUP1)</b>	Source: 2505388-03 Prepared & Analyzed: 05/29/25						
Conductivity	37800	1.00	umho/cm@25C	37700	0.265	20	
<b>Reference (B251532-SRM1)</b>	Prepared & Analyzed: 05/29/25						
Conductivity	1010	1.00	umho/cm@25C	1000	101	90-110	

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### Potentially Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch B251493 - Potentially Dissolved ICP

Blank (B251493-BLK1)		Prepared & Analyzed: 06/02/25								
Barium	ND	0.020	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Manganese	ND	0.020	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
Zinc	ND	0.100	mg/L							
LCS (B251493-BS1)		Prepared & Analyzed: 06/02/25								
Barium	2.00	0.020	mg/L	2.00	99.8	85-115				
Calcium	3.95	0.100	mg/L	4.00	98.7	85-115				
Iron	3.98	0.050	mg/L	4.00	99.5	85-115				
Lead	1.91	0.100	mg/L	2.00	95.4	85-115				
Magnesium	20.4	0.100	mg/L	20.0	102	85-115				
Manganese	1.97	0.020	mg/L	2.00	98.7	85-115				
Potassium	8.06	1.00	mg/L	8.00	101	85-115				
Silicon	3.96	0.500	mg/L	4.00	99.0	85-115				
Sodium	3.21	1.00	mg/L	3.24	99.0	85-115				
Strontium	3.93	0.100	mg/L	4.00	98.4	85-115				
Zinc	1.96	0.100	mg/L	2.00	98.2	85-115				
LCS Dup (B251493-BSD1)		Prepared & Analyzed: 06/02/25								
Barium	1.98	0.020	mg/L	2.00	98.9	85-115	0.870	20		
Calcium	3.88	0.100	mg/L	4.00	97.0	85-115	1.72	20		
Iron	3.90	0.050	mg/L	4.00	97.6	85-115	1.94	20		
Lead	1.92	0.100	mg/L	2.00	95.9	85-115	0.547	20		
Magnesium	20.0	0.100	mg/L	20.0	100	85-115	2.01	20		
Manganese	1.99	0.020	mg/L	2.00	99.6	85-115	0.842	20		
Potassium	8.12	1.00	mg/L	8.00	101	85-115	0.681	20		
Silicon	3.91	0.500	mg/L	4.00	97.7	85-115	1.39	20		
Sodium	3.17	1.00	mg/L	3.24	97.8	85-115	1.20	20		
Strontium	3.97	0.100	mg/L	4.00	99.2	85-115	0.818	20		
Zinc	1.94	0.100	mg/L	2.00	97.1	85-115	1.12	20		
Matrix Spike (B251493-MS1)		Source: 2505346-02 Prepared & Analyzed: 06/02/25								
Barium	1.98	0.400	mg/L	2.00	ND	98.9	70-130			

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Report Station For Jeremy D Allen, Laboratory Director

Released to Imaging: 12/3/2025 4:37:18 PM



Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

**Potentially Dissolved Metals by ICP - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B251493 - Potentially Dissolved ICP (Continued)**

Matrix Spike (B251493-MS1) (Continued)	Source: 2505346-02		Prepared & Analyzed: 06/02/25							
Calcium	7.21	2.00	mg/L	4.00	3.88	83.4	70-130			
Iron	56.6	1.00	mg/L	4.00	61.6	NR	70-130			M3
Lead	1.88	2.00	mg/L	2.00	ND	93.8	70-130			
Magnesium	19.4	2.00	mg/L	20.0	ND	97.2	70-130			
Manganese	2.32	0.400	mg/L	2.00	0.508	90.5	70-130			
Potassium	9.94	20.0	mg/L	8.00	ND	124	70-130			
Silicon	3.58	10.0	mg/L	4.00	0.355	80.6	70-130			
Sodium	ND	20.0	mg/L	3.24	ND		70-130			M2
Strontium	3.62	2.00	mg/L	4.00	ND	90.6	70-130			
Zinc	10.8	2.00	mg/L	2.00	10.2	27.1	70-130			M3
Matrix Spike (B251493-MS2)	Source: 2505388-01		Prepared & Analyzed: 06/02/25							
Barium	24.1	0.400	mg/L	2.00	24.1	3.33	70-130			M3
Calcium	460	2.00	mg/L	4.00	492	NR	70-130			M3
Iron	130	1.00	mg/L	4.00	140	NR	70-130			M3
Lead	1.84	2.00	mg/L	2.00	ND	91.9	70-130			
Magnesium	70.2	2.00	mg/L	20.0	57.6	62.8	70-130			M2
Manganese	3.03	0.400	mg/L	2.00	1.14	94.5	70-130			
Potassium	40.2	20.0	mg/L	8.00	35.6	57.4	70-130			M3
Silicon	43.9	10.0	mg/L	4.00	44.1	NR	70-130			M3
Sodium	7150	20.0	mg/L	3.24	7720	NR	70-130			M3
Strontium	85.8	2.00	mg/L	4.00	88.0	NR	70-130			M3
Zinc	1.86	2.00	mg/L	2.00	ND	92.8	70-130			
Matrix Spike Dup (B251493-MSD1)	Source: 2505346-02		Prepared & Analyzed: 06/02/25							
Barium	2.08	0.600	mg/L	2.00	ND	104	70-130	4.96	20	
Calcium	7.80	3.00	mg/L	4.00	3.88	98.0	70-130	7.81	20	
Iron	61.2	1.50	mg/L	4.00	61.6	NR	70-130	7.82	20	M3
Lead	2.14	3.00	mg/L	2.00	ND	107	70-130	13.0	20	
Magnesium	20.6	3.00	mg/L	20.0	ND	103	70-130	5.96	20	
Manganese	2.39	0.600	mg/L	2.00	0.508	93.9	70-130	2.94	20	
Potassium	11.2	30.0	mg/L	8.00	ND	140	70-130	11.6	20	M1
Silicon	4.61	15.0	mg/L	4.00	0.355	106	70-130	25.3	20	R1
Sodium	ND	30.0	mg/L	3.24	ND		70-130		20	M2
Strontium	3.71	3.00	mg/L	4.00	ND	92.7	70-130	2.33	20	
Zinc	11.6	3.00	mg/L	2.00	10.2	69.6	70-130	7.61	20	M3
Matrix Spike Dup (B251493-MSD2)	Source: 2505388-01		Prepared & Analyzed: 06/02/25							
Barium	27.1	0.600	mg/L	2.00	24.1	151	70-130	11.5	20	M3
Calcium	511	3.00	mg/L	4.00	492	487	70-130	10.6	20	M3

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Report Station For Jeremy D Allen, Laboratory Director

Released to Imaging: 12/3/2025 4:37:18 PM



Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

**Reported:**  
06/06/25 10:13

**Potentially Dissolved Metals by ICP - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B251493 - Potentially Dissolved ICP (Continued)**

Matrix Spike Dup (B251493-MSD2) (Continued)	Source: 2505388-01		Prepared & Analyzed: 06/02/25							
Iron	145	1.50	mg/L	4.00	140	130	70-130	11.2	20	
Lead	2.23	3.00	mg/L	2.00	ND	112	70-130	19.4	20	
Magnesium	79.6	3.00	mg/L	20.0	57.6	110	70-130	12.5	20	
Manganese	3.35	0.600	mg/L	2.00	1.14	111	70-130	10.2	20	
Potassium	45.4	30.0	mg/L	8.00	35.6	123	70-130	12.2	20	
Silicon	48.8	15.0	mg/L	4.00	44.1	119	70-130	10.7	20	
Sodium	7930	30.0	mg/L	3.24	7720	NR	70-130	10.4	20	M3
Strontium	95.2	3.00	mg/L	4.00	88.0	180	70-130	10.4	20	M3
Zinc	2.11	3.00	mg/L	2.00	ND	106	70-130	12.9	20	

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

**Reported:**  
06/06/25 10:13

### Notes and Definitions

R1	Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
M2	Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
M1	Matrix spike recovery was above laboratory acceptance criteria.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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

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Hilcorp  
382 CR 3100  
Aztec NM, 87410

Project: Formation Comparison  
Project Name / Number: Burnt Mesa Pad  
Project Manager: Ashley Bates

Reported:  
06/06/25 10:13

### Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
2505388-01	Magnesium Potentially Dissolved by ICP	Magnesium	M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
2505388-01	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-01	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-02	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-02	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-03	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-03	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-04	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-04	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-05	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-05	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-06	pH	pH	H1	Sample was received several days after collected and subsequently analyzed past hold time.
2505388-06	pH	pH Temperature, degrees C	H1	Sample was received several days after collected and subsequently analyzed past hold time.
B251493-MS1	Iron Potentially Dissolved by ICP	Iron	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
B251493-MS1	Sodium Potentially Dissolved by ICP	Sodium	M2	Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
B251493-MS1	Zinc Potentially Dissolved by ICP	Zinc	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
B251493-MS2	Barium Potentially Dissolved by ICP	Barium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
B251493-MS2	Calcium Potentially Dissolved by ICP	Calcium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
B251493-MS2	Iron Potentially Dissolved by ICP	Iron	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
B251493-MS2	Magnesium Potentially Dissolved by ICP	Magnesium	M2	Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: Formation Comparison Project Name / Number: Burnt Mesa Pad Project Manager: Ashley Bates			Reported: 06/06/25 10:13
<b>B251493-MS2</b>	Potassium Potentially Dissolved by ICP	Potassium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MS2</b>	Silicon Potentially Dissolved by ICP	Silicon	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MS2</b>	Sodium Potentially Dissolved by ICP	Sodium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MS2</b>	Strontium Potentially Dissolved by ICP	Strontium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD1</b>	Iron Potentially Dissolved by ICP	Iron	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD1</b>	Potassium Potentially Dissolved by ICP	Potassium	M1	Matrix spike recovery was above laboratory acceptance criteria.
<b>B251493-MSD1</b>	Silicon Potentially Dissolved by ICP	Silicon	R1	Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
<b>B251493-MSD1</b>	Sodium Potentially Dissolved by ICP	Sodium	M2	Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
<b>B251493-MSD1</b>	Zinc Potentially Dissolved by ICP	Zinc	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD2</b>	Barium Potentially Dissolved by ICP	Barium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD2</b>	Calcium Potentially Dissolved by ICP	Calcium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD2</b>	Sodium Potentially Dissolved by ICP	Sodium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251493-MSD2</b>	Strontium Potentially Dissolved by ICP	Strontium	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
<b>B251505-MS1</b>	Sulfate [IC]	Sulfate	M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.

Green Analytical Laboratories

A handwritten signature in blue ink that reads "Jeremy D. Allen".

Report Station For Jeremy D Allen, Laboratory Director

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

Note: Wipe-Out™ or similar products cannot be used on the Chain of Custody

Bill to (if different):

ANALYSIS REQUEST

Hilcorp/ East

382 Road 3100, Aztec, NM 87410

Address: Aztec State: NM Zip: 87410  
Phone #: 505-635-4123

Contact Person: Ashley Bates

Email Report to: Abates@Hilcorp.com

Project Name(optional):

Burnt Mesa Pad

Sampler Name (Print):

Ashley Bates

PLEASE NOTE: GAL'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 GAL within 30 days after completion of the applicable service. In no event shall GAL 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 GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.



## SAMPLE CONDITION RECEIPT FORM

Date/Initials of examining contents:	5-28-25
Table of Contents	
Labeled by initials:	
(If different than above)	

Client Name: HilcorpWork Order # 2505-388Courier:  FedEx  UPS  USPS  Client  Kangaroo  Third Party  OtherCustody Seals on Box/Cooler Present:  Yes  No Seals Intact:  Yes  No GAL Cooler #: \_\_\_\_\_Thermometer Used: #2 Samples on ice, cooling process has begun:  Yes  NoType of Ice:  Wet  Blue  None Cooler Temp: Observed Temp: 1.3 °C Correction Factor: -0.9 °C Final Temp: 0.4 °C  
\* Temp should be above freezing 6°CCompliance:  Yes  No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>pH</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>pour off for PO4 + Metals</u>
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		11.
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix: <u>WT SL OT</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

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**

CONDITIONS

Action 514186

**CONDITIONS**

Operator:  HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514186
	Action Type: [C-103] NOI General Sundry (C-103X)

**CONDITIONS**

Created By	Condition	Condition Date
stacy.sandoval	None	12/3/2025