

**A L Elliott D 002  
30-045-08495  
NCS1928833906  
2022 Annual SVE Report with Sampling**

**REVIEWED**

**By Mike Buchanan at 8:45 am, Nov 15, 2023**

Review of the A L Elliott D 002 2022  
Annual SVE Report with Sampling:

**Content Satisfactory**

1. Continue to operate SVE System and conduct O&M
2. Submit Annual Report for 2023 by April 1, 2024.

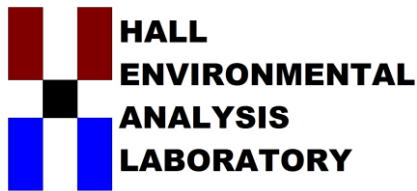
## Summary SVE System Monitoring Data

[illegible]



### All OVM Data

[illegible]



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 23, 2022

Kyle Siesser  
Cottonwood Consulting LLC  
PO BOX 1653  
Durango, CO 81302  
TEL: (970) 764-7356  
FAX:

RE: AL Elliot D 002

OrderNo.: 2206609

Dear Kyle Siesser:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/10/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2206609

Date Reported: 6/23/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: AL Elliot D 002

Collection Date: 6/8/2022 11:20:00 AM

Lab ID: 2206609-001

Matrix: AIR

Received Date: 6/10/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	1900	100		µg/L	20	6/15/2022 1:56:00 PM	G88743
Surr: BFB	103	70-130		%Rec	20	6/15/2022 1:56:00 PM	G88743
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: CCM
Benzene	ND	2.0		µg/L	20	6/15/2022 1:56:00 PM	S88743
Toluene	17	2.0		µg/L	20	6/15/2022 1:56:00 PM	S88743
Ethylbenzene	2.1	2.0		µg/L	20	6/15/2022 1:56:00 PM	S88743
Xylenes, Total	29	3.0		µg/L	20	6/15/2022 1:56:00 PM	S88743
Surr: 1,2-Dichloroethane-d4	86.8	70-130		%Rec	20	6/15/2022 1:56:00 PM	S88743
Surr: Dibromofluoromethane	93.4	70-130		%Rec	20	6/15/2022 1:56:00 PM	S88743
Surr: Toluene-d8	104	70-130		%Rec	20	6/15/2022 1:56:00 PM	S88743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 1



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## ANALYTICAL SUMMARY REPORT

June 23, 2022

Hall Environmental  
4901 Hawkins St NE Ste D  
Albuquerque, NM 87109-4372

Work Order: G22060303

Project Name: 2206609

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 6/16/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G22060303-001	2206609-001A;SVE	06/08/22 11:20	06/16/22	Gas	Air Correction Calculations Analysis Corrections Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:



**CLIENT:** Hall Environmental  
**Project:** 2206609  
**Work Order:** G22060303

**Report Date:** 06/23/22

## CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



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## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Hall Environmental  
**Project:** 2206609  
**Client Sample ID:** 2206609-001A;SVE  
**Location:**  
**Lab ID:** G22060303-001

**Report Date:** 06/23/22  
**Collection Date:** 06/08/22 11:20  
**Date Received:** 06/16/22  
**Sampled By:** Not Provided

Analyses	Result	Units	Qualifier	Method	Analysis Date / By
<b>GAS CHROMATOGRAPHIC ANALYSIS REPORT</b>					
Oxygen	21.29	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Nitrogen	77.96	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Carbon Dioxide	0.55	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Hydrogen Sulfide	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Methane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Ethane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Propane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Isobutane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
n-Butane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Isopentane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
n-Pentane	<0.01	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
Hexanes plus	0.20	Mol %		GPA 2261-	06/20/22 13:22 / eli-b
<b>GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS</b>					
Propane	< 0.001	gpm		GPA 2261-	06/20/22 13:22 / eli-b
Isobutane	< 0.001	gpm		GPA 2261-	06/20/22 13:22 / eli-b
n-Butane	< 0.001	gpm		GPA 2261-	06/20/22 13:22 / eli-b
Isopentane	< 0.001	gpm		GPA 2261-	06/20/22 13:22 / eli-b
n-Pentane	< 0.001	gpm		GPA 2261-	06/20/22 13:22 / eli-b
Hexanes plus	0.084	gpm		GPA 2261-	06/20/22 13:22 / eli-b
GPM Total	0.084	gpm		GPA 2261-	06/20/22 13:22 / eli-b
GPM Pentanes plus	0.084	gpm		GPA 2261-	06/20/22 13:22 / eli-b
<b>CALCULATED PROPERTIES</b>					
Gross BTU per cu ft @ Std Cond. (HHV)	10			GPA 2261-	06/20/22 13:22 / eli-b
Net BTU per cu ft @ std cond. (LHV)	9			GPA 2261-	06/20/22 13:22 / eli-b
Pseudo-critical Pressure, psia	546			GPA 2261-	06/20/22 13:22 / eli-b
Pseudo-critical Temperature, deg R	241			GPA 2261-	06/20/22 13:22 / eli-b
<b>PHYSICAL PROPERTIES-CALCULATED</b>					
Specific Gravity @ 60/60F	1.00			D3588-81	06/20/22 13:22 / eli-b
<b>COMMENTS</b>					
-				-	06/20/22 13:22 / eli-b

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

**Report** RL - Analyte Reporting Limit  
**Definitions:** QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)





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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental

Work Order: G22060303

Report Date: 06/22/22

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: GPA 2261-95</b>							Batch: R383462		
<b>Lab ID: LCS062022</b>	Laboratory Control Sample				Run: GCNGA-B_220620A		06/20/22 15:28		
Oxygen	0.60	Mol %	0.01	120	70	130			
Nitrogen	5.97	Mol %	0.01	99	70	130			
Carbon Dioxide	1.01	Mol %	0.01	102	70	130			
Methane	74.5	Mol %	0.01	100	70	130			
Ethane	6.07	Mol %	0.01	101	70	130			
Propane	5.08	Mol %	0.01	103	70	130			
Isobutane	2.01	Mol %	0.01	100	70	130			
n-Butane	2.00	Mol %	0.01	100	70	130			
Isopentane	1.01	Mol %	0.01	101	70	130			
n-Pentane	1.00	Mol %	0.01	100	70	130			
Hexanes plus	0.77	Mol %	0.01	96	70	130			
<b>Lab ID: B22061652-001ADUP</b>							Sample Duplicate		
					Run: GCNGA-B_220620A		06/20/22 12:55		
Oxygen	21.3	Mol %	0.01				0	20	
Nitrogen	77.7	Mol %	0.01				0.1	20	
Carbon Dioxide	0.77	Mol %	0.01				0.0	20	
Hydrogen Sulfide	<0.01	Mol %	0.01					20	
Methane	<0.01	Mol %	0.01					20	
Ethane	<0.01	Mol %	0.01					20	
Propane	<0.01	Mol %	0.01					20	
Isobutane	<0.01	Mol %	0.01					20	
n-Butane	<0.01	Mol %	0.01					20	
Isopentane	<0.01	Mol %	0.01					20	
n-Pentane	<0.01	Mol %	0.01					20	
Hexanes plus	0.17	Mol %	0.01				52	20	R

### Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

R - Relative Percent Difference (RPD) exceeds advisory limit



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# Work Order Receipt Checklist

Hall Environmental

G22060303

Login completed by: Chantel S. Johnson

Date Received: 6/16/2022

Reviewed by: Alyson T. Degnan

Received by: csj

Reviewed Date: 6/21/2022

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature:	°C		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

## Contact and Corrective Action Comments:

None



## CHAIN OF CUSTODY RECORD

1 1

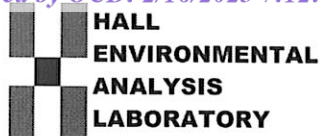
Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975  
 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

SUB CONTRACTOR: Energy Labs-Gillette		COMPANY: Energy Laboratories		PHONE: (866) 686-7175		FAX:	
ADDRESS: 400 W Boxelder Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Gillette, WY 82718							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2206609-001A	SVE	TEDLAR	Air	6/8/2022 11:20:00 AM	1	
Natural Gases O <sub>2</sub> , CO <sub>2</sub>							

## SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: Sqr	Date: 6/10/2022	Time: 10:50 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples _____ °C    Attempt to Cool? _____ Comments: 070200303
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/>	Next BD <input type="checkbox"/>	2nd BD <input type="checkbox"/>	3rd BD <input type="checkbox"/>			



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Cottonwood Consulting LLC

Work Order Number: 2206609

RcptNo: 1

Received By: Cheyenne Cason

6/10/2022 7:05:00 AM

*Chad*

Completed By: Sean Livingston

6/10/2022 10:47:21 AM

*Sean Livingston*

Reviewed By:

*KPL*

*6.10.22*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☐ NA ☒
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *One Colina*

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			





**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 186901

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number: 186901
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the A L Elliott D 002 2022 Annual SVE Report with Sampling: Content Satisfactory 1. Continue to operate SVE System and conduct O&M 2. Submit Annual Report for 2023 by April 1, 2024.	11/15/2023