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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Jaquez GC B #003E

JOB NUMBER

885-6337-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by
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Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Laboratory Job ID: 885-6337-1

Table of Contents

Definitions/Glossary

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cottonwood Consulting LLC
Project: Jaquez GC B #003E

Job ID: 885-6337-1

Job ID: 885-6337-1 Eurofins Albuquerque

Job Narrative
885-6337-1

REVISION

The report being provided is a revision of the original report sent on 7/5/2024. The report (revision 1) is being revised due to The MB doesn't reflect the correct reporting levels.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 6/14/2024 7:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.3°C.

Subcontract Work
Method Natural Gases O2, CO2: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Client Sample ID: SVE
Date Collected: 06/13/24 12:45
Date Received: 06/14/24 07:00
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-6337-1
Matrix: Air

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10		ug/L			06/27/24 17:33	1
1,1,1-Trichloroethane	ND		0.10		ug/L			06/27/24 17:33	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			06/27/24 17:33	1
1,1,2-Trichloroethane	ND		0.10		ug/L			06/27/24 17:33	1
1,1-Dichloroethane	ND		0.10		ug/L			06/27/24 17:33	1
1,1-Dichloroethene	ND		0.10		ug/L			06/27/24 17:33	1
1,1-Dichloropropene	ND		0.10		ug/L			06/27/24 17:33	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
1,2,3-Trichloropropane	ND		0.20		ug/L			06/27/24 17:33	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			06/27/24 17:33	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			06/27/24 17:33	1
1,2-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			06/27/24 17:33	1
1,2-Dichloropropane	ND		0.10		ug/L			06/27/24 17:33	1
1,3,5-Trimethylbenzene	**0.51**		0.10		ug/L			06/27/24 17:33	1
1,3-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
1,3-Dichloropropane	ND		0.10		ug/L			06/27/24 17:33	1
1,4-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
1-Methylnaphthalene	ND		0.40		ug/L			06/27/24 17:33	1
2,2-Dichloropropane	ND		0.20		ug/L			06/27/24 17:33	1
2-Butanone	ND		1.0		ug/L			06/27/24 17:33	1
2-Chlorotoluene	ND		0.10		ug/L			06/27/24 17:33	1
2-Hexanone	ND		1.0		ug/L			06/27/24 17:33	1
2-Methylnaphthalene	ND		0.40		ug/L			06/27/24 17:33	1
4-Chlorotoluene	ND		0.10		ug/L			06/27/24 17:33	1
4-Isopropyltoluene	ND		0.10		ug/L			06/27/24 17:33	1
4-Methyl-2-pentanone	ND		1.0		ug/L			06/27/24 17:33	1
Acetone	ND		1.0		ug/L			06/27/24 17:33	1
Benzene	ND		0.10		ug/L			06/27/24 17:33	1
Bromobenzene	ND		0.10		ug/L			06/27/24 17:33	1
Bromodichloromethane	ND		0.10		ug/L			06/27/24 17:33	1
Dibromochloromethane	ND		0.10		ug/L			06/27/24 17:33	1
Bromoform	ND		0.10		ug/L			06/27/24 17:33	1
Bromomethane	ND		0.30		ug/L			06/27/24 17:33	1
Carbon disulfide	ND		1.0		ug/L			06/27/24 17:33	1
Carbon tetrachloride	ND		0.10		ug/L			06/27/24 17:33	1
Chlorobenzene	ND		0.10		ug/L			06/27/24 17:33	1
Chloroethane	ND		0.20		ug/L			06/27/24 17:33	1
Chloroform	ND		0.10		ug/L			06/27/24 17:33	1
Chloromethane	ND		0.30		ug/L			06/27/24 17:33	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			06/27/24 17:33	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			06/27/24 17:33	1
Dibromomethane	ND		0.10		ug/L			06/27/24 17:33	1
Dichlorodifluoromethane	ND		0.10		ug/L			06/27/24 17:33	1
Ethylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
Hexachlorobutadiene	ND		0.10		ug/L			06/27/24 17:33	1

Client Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Client Sample ID: SVE

Date Collected: 06/13/24 12:45
Date Received: 06/14/24 07:00
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-6337-1

Matrix: Air

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			06/27/24 17:33	1
Methylene Chloride	ND		0.30		ug/L			06/27/24 17:33	1
n-Butylbenzene	ND		0.30		ug/L			06/27/24 17:33	1
N-Propylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
Naphthalene	ND		0.20		ug/L			06/27/24 17:33	1
sec-Butylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
Styrene	ND		0.10		ug/L			06/27/24 17:33	1
tert-Butylbenzene	ND		0.10		ug/L			06/27/24 17:33	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			06/27/24 17:33	1
Toluene	ND		0.10		ug/L			06/27/24 17:33	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			06/27/24 17:33	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			06/27/24 17:33	1
Trichloroethene (TCE)	ND		0.10		ug/L			06/27/24 17:33	1
Trichlorofluoromethane	ND		0.10		ug/L			06/27/24 17:33	1
Vinyl chloride	ND		0.10		ug/L			06/27/24 17:33	1
Xylenes, Total	**0.20**		0.15		ug/L			06/27/24 17:33	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*06/27/24 17:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/27/24 17:33*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*06/27/24 17:33*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*06/27/24 17:33*	*1*

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-7511/28
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10		ug/L			06/27/24 17:09	1
1,1,1-Trichloroethane	ND		0.10		ug/L			06/27/24 17:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			06/27/24 17:09	1
1,1,2-Trichloroethane	ND		0.10		ug/L			06/27/24 17:09	1
1,1-Dichloroethane	ND		0.10		ug/L			06/27/24 17:09	1
1,1-Dichloroethene	ND		0.10		ug/L			06/27/24 17:09	1
1,1-Dichloropropene	ND		0.10		ug/L			06/27/24 17:09	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			06/27/24 17:09	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			06/27/24 17:09	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			06/27/24 17:09	1
1,2-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			06/27/24 17:09	1
1,2-Dichloropropane	ND		0.10		ug/L			06/27/24 17:09	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,3-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
1,3-Dichloropropane	ND		0.10		ug/L			06/27/24 17:09	1
1,4-Dichlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
1-Methylnaphthalene	ND		0.40		ug/L			06/27/24 17:09	1
2,2-Dichloropropane	ND		0.20		ug/L			06/27/24 17:09	1
2-Butanone	ND		1.0		ug/L			06/27/24 17:09	1
2-Chlorotoluene	ND		0.10		ug/L			06/27/24 17:09	1
2-Hexanone	ND		1.0		ug/L			06/27/24 17:09	1
2-Methylnaphthalene	ND		0.40		ug/L			06/27/24 17:09	1
4-Chlorotoluene	ND		0.10		ug/L			06/27/24 17:09	1
4-Isopropyltoluene	ND		0.10		ug/L			06/27/24 17:09	1
4-Methyl-2-pentanone	ND		1.0		ug/L			06/27/24 17:09	1
Acetone	ND		1.0		ug/L			06/27/24 17:09	1
Benzene	ND		0.10		ug/L			06/27/24 17:09	1
Bromobenzene	ND		0.10		ug/L			06/27/24 17:09	1
Bromodichloromethane	ND		0.10		ug/L			06/27/24 17:09	1
Dibromochloromethane	ND		0.10		ug/L			06/27/24 17:09	1
Bromoform	ND		0.10		ug/L			06/27/24 17:09	1
Bromomethane	ND		0.30		ug/L			06/27/24 17:09	1
Carbon disulfide	ND		1.0		ug/L			06/27/24 17:09	1
Carbon tetrachloride	ND		0.10		ug/L			06/27/24 17:09	1
Chlorobenzene	ND		0.10		ug/L			06/27/24 17:09	1
Chloroethane	ND		0.20		ug/L			06/27/24 17:09	1
Chloroform	ND		0.10		ug/L			06/27/24 17:09	1
Chloromethane	ND		0.30		ug/L			06/27/24 17:09	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			06/27/24 17:09	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			06/27/24 17:09	1
Dibromomethane	ND		0.10		ug/L			06/27/24 17:09	1
Dichlorodifluoromethane	ND		0.10		ug/L			06/27/24 17:09	1
Ethylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
Hexachlorobutadiene	ND		0.10		ug/L			06/27/24 17:09	1

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7511/28
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			06/27/24 17:09	1
Methylene Chloride	ND		0.30		ug/L			06/27/24 17:09	1
n-Butylbenzene	ND		0.30		ug/L			06/27/24 17:09	1
N-Propylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
Naphthalene	ND		0.20		ug/L			06/27/24 17:09	1
sec-Butylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
Styrene	ND		0.10		ug/L			06/27/24 17:09	1
tert-Butylbenzene	ND		0.10		ug/L			06/27/24 17:09	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			06/27/24 17:09	1
Toluene	ND		0.10		ug/L			06/27/24 17:09	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			06/27/24 17:09	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			06/27/24 17:09	1
Trichloroethene (TCE)	ND		0.10		ug/L			06/27/24 17:09	1
Trichlorofluoromethane	ND		0.10		ug/L			06/27/24 17:09	1
Vinyl chloride	ND		0.10		ug/L			06/27/24 17:09	1
Xylenes, Total	ND		0.15		ug/L			06/27/24 17:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*06/27/24 17:09*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*06/27/24 17:09*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*06/27/24 17:09*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*06/27/24 17:09*	*1*

Lab Sample ID: MB 885-7511/5
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/27/24 17:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/27/24 17:09	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/27/24 17:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/27/24 17:09	1
1,1-Dichloroethane	ND		1.0		ug/L			06/27/24 17:09	1
1,1-Dichloroethene	ND		1.0		ug/L			06/27/24 17:09	1
1,1-Dichloropropene	ND		1.0		ug/L			06/27/24 17:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/27/24 17:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			06/27/24 17:09	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			06/27/24 17:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			06/27/24 17:09	1
1,2-Dichloropropane	ND		1.0		ug/L			06/27/24 17:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
1,3-Dichloropropane	ND		1.0		ug/L			06/27/24 17:09	1

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7511/5
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
1-Methylnaphthalene	ND		4.0		ug/L			06/27/24 17:09	1
2,2-Dichloropropane	ND		2.0		ug/L			06/27/24 17:09	1
2-Butanone	ND		10		ug/L			06/27/24 17:09	1
2-Chlorotoluene	ND		1.0		ug/L			06/27/24 17:09	1
2-Hexanone	ND		10		ug/L			06/27/24 17:09	1
2-Methylnaphthalene	ND		4.0		ug/L			06/27/24 17:09	1
4-Chlorotoluene	ND		1.0		ug/L			06/27/24 17:09	1
4-Isopropyltoluene	ND		1.0		ug/L			06/27/24 17:09	1
4-Methyl-2-pentanone	ND		10		ug/L			06/27/24 17:09	1
Acetone	ND		10		ug/L			06/27/24 17:09	1
Benzene	ND		1.0		ug/L			06/27/24 17:09	1
Bromobenzene	ND		1.0		ug/L			06/27/24 17:09	1
Bromodichloromethane	ND		1.0		ug/L			06/27/24 17:09	1
Dibromochloromethane	ND		1.0		ug/L			06/27/24 17:09	1
Bromoform	ND		1.0		ug/L			06/27/24 17:09	1
Bromomethane	ND		3.0		ug/L			06/27/24 17:09	1
Carbon disulfide	ND		10		ug/L			06/27/24 17:09	1
Carbon tetrachloride	ND		1.0		ug/L			06/27/24 17:09	1
Chlorobenzene	ND		1.0		ug/L			06/27/24 17:09	1
Chloroethane	ND		2.0		ug/L			06/27/24 17:09	1
Chloroform	ND		1.0		ug/L			06/27/24 17:09	1
Chloromethane	ND		3.0		ug/L			06/27/24 17:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/27/24 17:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/27/24 17:09	1
Dibromomethane	ND		1.0		ug/L			06/27/24 17:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			06/27/24 17:09	1
Ethylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
Hexachlorobutadiene	ND		1.0		ug/L			06/27/24 17:09	1
Isopropylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			06/27/24 17:09	1
Methylene Chloride	ND		3.0		ug/L			06/27/24 17:09	1
n-Butylbenzene	ND		3.0		ug/L			06/27/24 17:09	1
N-Propylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
Naphthalene	ND		2.0		ug/L			06/27/24 17:09	1
sec-Butylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
Styrene	ND		1.0		ug/L			06/27/24 17:09	1
tert-Butylbenzene	ND		1.0		ug/L			06/27/24 17:09	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			06/27/24 17:09	1
Toluene	ND		1.0		ug/L			06/27/24 17:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/27/24 17:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/27/24 17:09	1
Trichloroethene (TCE)	ND		1.0		ug/L			06/27/24 17:09	1
Trichlorofluoromethane	ND		1.0		ug/L			06/27/24 17:09	1
Vinyl chloride	ND		1.0		ug/L			06/27/24 17:09	1
Xylenes, Total	ND		1.5		ug/L			06/27/24 17:09	1

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7511/5
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		06/27/24 17:09	1
Toluene-d8 (Surr)	95		70 - 130		06/27/24 17:09	1
4-Bromofluorobenzene (Surr)	95		70 - 130		06/27/24 17:09	1
Dibromofluoromethane (Surr)	105		70 - 130		06/27/24 17:09	1

Lab Sample ID: LCS 885-7511/3
Matrix: Air
Analysis Batch: 7511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.9		ug/L		109			
Benzene			20.1	22.8		ug/L		113			
Chlorobenzene			20.1	22.9		ug/L		114			
Toluene			20.2	21.9		ug/L		108			
Trichloroethene (TCE)			20.2	22.1		ug/L		110			

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: 885-6337-1 DU
Matrix: Air
Analysis Batch: 7511

Client Sample ID: SVE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	0.51			0.482		ug/L				5	20
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-6337-1 DU
Matrix: Air
Analysis Batch: 7511

Client Sample ID: SVE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	ND			ND		ug/L				NC	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	ND			ND		ug/L				NC	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	ND			ND		ug/L				NC	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	0.20			0.192		ug/L				4	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-6337-1 DU
Matrix: Air
Analysis Batch: 7511

Client Sample ID: SVE
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

QC Association Summary

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

GC/MS VOA

Analysis Batch: 7511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6337-1	SVE	Total/NA	Air	8260B	
MB 885-7511/28	Method Blank	Total/NA	Air	8260B	
MB 885-7511/5	Method Blank	Total/NA	Air	8260B	
LCS 885-7511/3	Lab Control Sample	Total/NA	Air	8260B	
885-6337-1 DU	SVE	Total/NA	Air	8260B	

Lab Chronicle

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Client Sample ID: SVE

Date Collected: 06/13/24 12:45
Date Received: 06/14/24 07:00

Lab Sample ID: 885-6337-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7511	CM	EET ALB	06/27/24 17:33

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC Job ID: 885-6337-1
Project/Site: Jaquez GC B #003E

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC
Project/Site: Jaquez GC B #003E

Job ID: 885-6337-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

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ANALYTICAL SUMMARY REPORT

June 21, 2024

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

Work Order: B24061614 Quote ID: B15626
Project Name: Jaquez GC B #003E, 88501577

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 6/18/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24061614-001	SVE (885-6337-1)	06/13/24 12:45	06/18/24	Air	Air Correction Calculations Appearance and Comments 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., 1120 So. 27th Street, Billings, MT 59101, 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.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

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

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Jaquez GC B #003E, 88501577
Lab ID: B24061614-001
Client Sample ID: SVE (885-6337-1)

Report Date: 06/21/24
Collection Date: 06/13/24 12:45
DateReceived: 06/18/24
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	22.03	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Nitrogen	77.71	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Carbon Dioxide	0.22	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Hexanes plus	0.04	Mol %		0.01		GPA 2261-95	06/20/24 12:56 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
Hexanes plus	0.017	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
GPM Total	0.017	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
GPM Pentanes plus	0.017	gpm		0.001		GPA 2261-95	06/20/24 12:56 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-95	06/20/24 12:56 / jrj
Net BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-95	06/20/24 12:56 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	06/20/24 12:56 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	06/20/24 12:56 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	06/20/24 12:56 / jrj
Air, %	100.67			0.01		GPA 2261-95	06/20/24 12:56 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	06/20/24 12:56 / jrj

- 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 Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

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Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental **Work Order:** B24061614 **Report Date:** 06/21/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-95**										Batch: R423193
Lab ID: **B24061715-001ADUP**	12	Sample Duplicate				Run: GCNGA-B_240620A				06/20/24 11:19
Oxygen		22.1	Mol %	0.01				0.5	20	
Nitrogen		77.7	Mol %	0.01				0.1	20	
Carbon Dioxide		0.20	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		0.05	Mol %	0.01				0.0	20	
Lab ID: **LCS062024**	11	Laboratory Control Sample				Run: GCNGA-B_240620A				06/20/24 03:27
Oxygen		0.64	Mol %	0.01	128	70	130			
Nitrogen		6.08	Mol %	0.01	101	70	130			
Carbon Dioxide		0.99	Mol %	0.01	100	70	130			
Methane		75.1	Mol %	0.01	100	70	130			
Ethane		6.09	Mol %	0.01	101	70	130			
Propane		5.04	Mol %	0.01	102	70	130			
Isobutane		1.45	Mol %	0.01	72	70	130			
n-Butane		1.99	Mol %	0.01	99	70	130			
Isopentane		0.95	Mol %	0.01	95	70	130			
n-Pentane		0.97	Mol %	0.01	97	70	130			
Hexanes plus		0.74	Mol %	0.01	93	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B24061614

Login completed by: Danielle N. Harris
Date Received: 6/18/2024

Reviewed by: cindy
Received by: CMJ

Reviewed Date: 6/21/2024
Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	13.0°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

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.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cason, Cheyenne	Carrier Tracking No(s):	COC No: 885-981.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cheyenne.cason@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Energy Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-6337-1
Address: 1120 South 27th Street, ,	Due Date Requested: 6/26/2024			
City: Billings	TAT Requested (days):			
State, Zip: MT, 59101				
Phone: 406-252-6325(Tel)	PO #:			
Email:	WO #:			
Project Name: Jaquez GC B #003E	Project #: 88501577			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Natural Gases O2, CO2)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SVE (885-6337-1)	6/13/24	12:45 Mountain		Air			X	1	See Attached Instructions
									B240616614

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/17/24 15:26				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Crystal Jones	Date/Time: 6/18/24 09:20	Company: ELI

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Chain-of-Custody Record

Client: Cottonwood Consulting LLC

Mailing Address: PO Box 1653
Durango, CO 81302

Phone #: 970-764-7356

email or Fax#: ksiesser@cottonwoodconsulting.com

QA/QC Package.
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
■ Standard ☐ Rush

Project Name: Jaquez GC B #003E

Project #:

Project Manager: Kyle Siesser

Sampler: Kelsey O'Brien

On Ice: ☑ Yes ☐ No YOS

# of Coolers: 1

Cooler Temp(Including CF): 25.4 -0.1=25.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-6337 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504 1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CO2	O2
6/13/24	1245	AIR	SVE	tedlar bag - 2	NA	1								■			■	■

Remarks:
please cc emillar@cottonwoodconsulting.com

Date	Time	Relinquished by	Received by	Via	Date	Time
6/13/24	1411				6/13/24	1411
6/13/24	1719			courier	6/14/24	7:00

If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Cottonwood Consulting LLC Job Number: 885-6337-1

Login Number: 6337 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Cottonwood CONSULTING

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A	1-15-24	1	6.4	-38	-48	-	Y	22	N	Drum frozen
Florance GC J 16		2	41.4	-6	-	-	Y	12.5	Y	Gasket leaking
Sandoval GC A 1A		3	124.8	-10(HR)	Broken	7397.7	N	25	N	Drain valve is broken (Needs replace) Restarted system, Drum frozen,
Jacquez GC B 3E		1	0.1	-6	-	5520.1	Y	Dry	N	Run time gauge has condensation and is hard to read.
Al Elliot D 002		5	-	-	-	-	N	12.7	N	Drum frozen and full, generator was running, attempted to restart, would not sta
GCU H180		All	-	-	-	8675.6	N	-	-	System not operational on arrival attempted to start, cold turn and died, would not start after drying.
Heaton LS 5		Unk	82.3	-	-54	-	Y	25.5	N	Drum frozen
Mudge B12 R		1	84.4	-28	-8	-	N	32	N	Restarted system Drum frozen.
Mudge A 002 MV		2	32.0	-50	-	-	Y	Dry	N	

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
H2O"- inches water
cfm- cubic feet per minute
bTOD- below top of drum

Cottonwood CONSULTING

SVE Monitoring

(in hg)

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum ~~(H2O")~~	Vacuum Pressure downstream of drum (H2O")	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A*	2-5-24	1	6.2	-3.75	-3.75	—	Y	23.6	Y	
Florance GC J 16*	2-14-24	2	42.6	-2.1	-2.1	-	N	16.4	Y	Drum leaking, needs new gasket.
Sandoval GC A 1A*	2-5-24	3	41.0	-2.5	-2.5	7507.5	Y	31.75	Y	Valve Fixed Gauge Replaced
Jacquez GC B 3E*		1	0.8	-0.2	—	7031.1	Y	32.5	N	Water Frozen
Al Elliot D 002*		5	65.7	-0.5	-0.5	6664.1	Y	30.1	Y	BGT ≈ 90% Full
GCU H180		All	-	-	-	—	Y	-	-	2 psi) 110°F) 1) ~~3.0~~ 2) 2.5 3) 2.5 4) 1.5 psi
Heaton LS 5*		Unk	98.9	-2.5	-2.5	—	Y	27.3	Y	
Mudge B12 R*	2-14-24	1	36.7	-2.5	-2.5	—	Y		N	Drum Frozen
Mudge A 002 MV*	2-14-24	2	22.0	-5.0	-4.0	—	Y	32.0	N	Drum Frozen

run time gauge not connected

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
H2O"- inches water
cfm- cubic feet per minute
bTOD- below top of drum
*- Gauge replaced with (in hg) vacuum pressure gauge

Cottonwood CONSULTING

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (inHg)	Vacuum Pressure downstream of drum (inHg)	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A	3-11-24	1	0.6	3.75	3.75	—	Y	29.5	Y	
Florance GC J 16		2	28.1	3.20	~~3.30~~ 2.30	—	Y	18.2	Y	* - See below
Sandoval GC A 1A		3	89.1	2.50	2.50	7653.0	N	28.3	Y	
Jacquez GC B 3E		1	1.2	0.2	0.2	7869.8	Y	Dry	N	
Al Elliot D 002		5	26.5	0.5	0.5	6849.7	N	32.5	N	Water Level below drain valve
GCU H180		All	-	-	-	9003.0	Y	-	-	Temp 125 F System Pressure 1.8 psi SVE Point (psi): (1) 2.5 (2) 2.5 (3) 2.5 (4) 2.5
Heaton LS 5		Unk	70.8	2.7	2.5	—	Y	31.8	N	Water Level below drain valve
Mudge B12 R		1	41.3	2.5	2.5	—	Y	24.8	Y	Drum has hole, needs to be replaced
Mudge A 002 MV		2	47.2	4.75	3.75	—	Y	Dry	N	

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
inHg- inches of mercury
cfm- cubic feet per minute
bTOD- below top of drum

* - No leaks when system was running. Turned off system and discovered leak. After investigation a small pinhole is present at the bottom of the drum

Cottonwood CONSULTING

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (inHg)	Vacuum Pressure downstream of drum (inHg)	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A	4/8/24	1	66.1	3.75	3.75	–	Y	29.5	Y	
Florance GC J 16		2	202.8	-4.0	-4.0	–	Y	14	Y	Small leak when system is off
Sandoval GC A 1A		3	148.3	2.5	2.5	76129	N	30.5	Y	
Jacquez GC B 3E		1	6.0	0.2	0.2	8543.6	Y	Dry	N	
Al Elliot D 002		5	49.8	0.4	0.4	7481.6	Y	29	Y	
GCU H180		All	-	-	-	9177.0	Y	-	-	Temp 125 F System Pressure 2.0 psi SVE Point (psi): (1) 1.0 (2) 1.0 (3) 1.0 (4) 1.0
Heaton LS 5		Unk	107.5	2.75	2.5	–	Y	Dry	N	
Mudge B12 R		1	256.3	2.5	2.5	–	Y	28.5	Y	Small leak when system is off
Mudge A 002 MV		2	104.3	4.75	3.00	–	Y	Dry	N	

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
inHg- inches of mercury
cfm- cubic feet per minute
bTOD- below top of drum

Cottonwood CONSULTING

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (inHg)	Vacuum Pressure downstream of drum (inHg)	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A	5-6-24	1	1.3	3.75	3.75	-	Y	31.5	N	Water level below drain valve
Florance GC J 16		2	23.3	3.5	3.5	-	Y	24.2	Y	Tightened gasket, no leaks after tightening.
Sandoval GC A 1A		3	2.8	2.5	2.5	7745.2	N	32.5 ~~32.5~~ SL	N	Water level below drain valve, restarted system. MW connection was disconnected on arrival.
Jacquez GC B 3E		1	1.1	0.2	0.2	10,215.4	Y	Dry	N	Drum is dry.
Al Elliot D 002		5	29.5	0.4	0.4	8154.0	Y	30.3	Y	Drum dry
GCU H180		All	-	-	-	9331.1	Y	-	-	Temp 127 F System Pressure 2.5 psi SVE Point (psi): (1) 1.5 (2) 2.5 (3) 2.0 (4) 1.0
Heaton LS 5		Unk	89.6	2.5	2.5	-	Y	Dry	N	Drum dry
Mudge B12 R		1	26.7	2.5	2.5	-	Y	27.5	Y	Tightened gasket, gasket is cracked. Minor condensation observed after tightening.
Mudge A 002 MV		2	52.0	5.0	3.75	-	Y	Dry	N	Drum dry

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
inHg- inches of mercury
cfm- cubic feet per minute
bTOD- below top of drum

Cottonwood CONSULTING

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (inHg)	Vacuum Pressure downstream of drum (inHg)	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic A LS 9A	6/12/24	1	3.4	4.0	3.75	—	Y	Dry	N	
Florance GC J 16	6/13/24	2	35.8	3.0	3.5	—	Y	Dry	N	
Sandoval GC A 1A	6/13/24	3	10.0	5.0	2.0	7922.4	N	Dry	N	
Jacquez GC B 3E	6/13/24	1	6.2	0.1	0.1	1264.9	Y	Dry	N	
Al Elliot D 002	6/13/24	5	37.3	0.1	0.1	9061.2	Y	Dry	N	
GCU H180	6/12/24	All	-	-	-	Broken ?	N	-	-	Temp 145F System Pressure 2.5 psi SVE Point (psi): (1) 0.1 (2) 2.5 (3) 2.2 (4) 0 System off on arrival. Reset.
Heaton LS 5	6/12/24	Unk	102.0	1.0	1.0	—	Y	Dry	N	
Mudge B12 R	6/12/24	1	36.7	2.5	2.5	-	Y	Dry	N	
Mudge A 002 MV	6/13/24	2	150.5	5.0	5.0	—	Y	Dry	NO	

Notes:
SVE - Soil Vapor Extraction
OVM - Organic Vapor Monitoring
ppm- parts per million
inHg- inches of mercury
cfm- cubic feet per minute
bTOD- below top of drum

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 362619

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 362619
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Lab results and SVE field forms accepted for the incident record at JAQUEZ GAS COM B #003E SVE, App ID: 362619. Please continue to submit documentation for the remaining 2024 calendar year.	11/8/2024