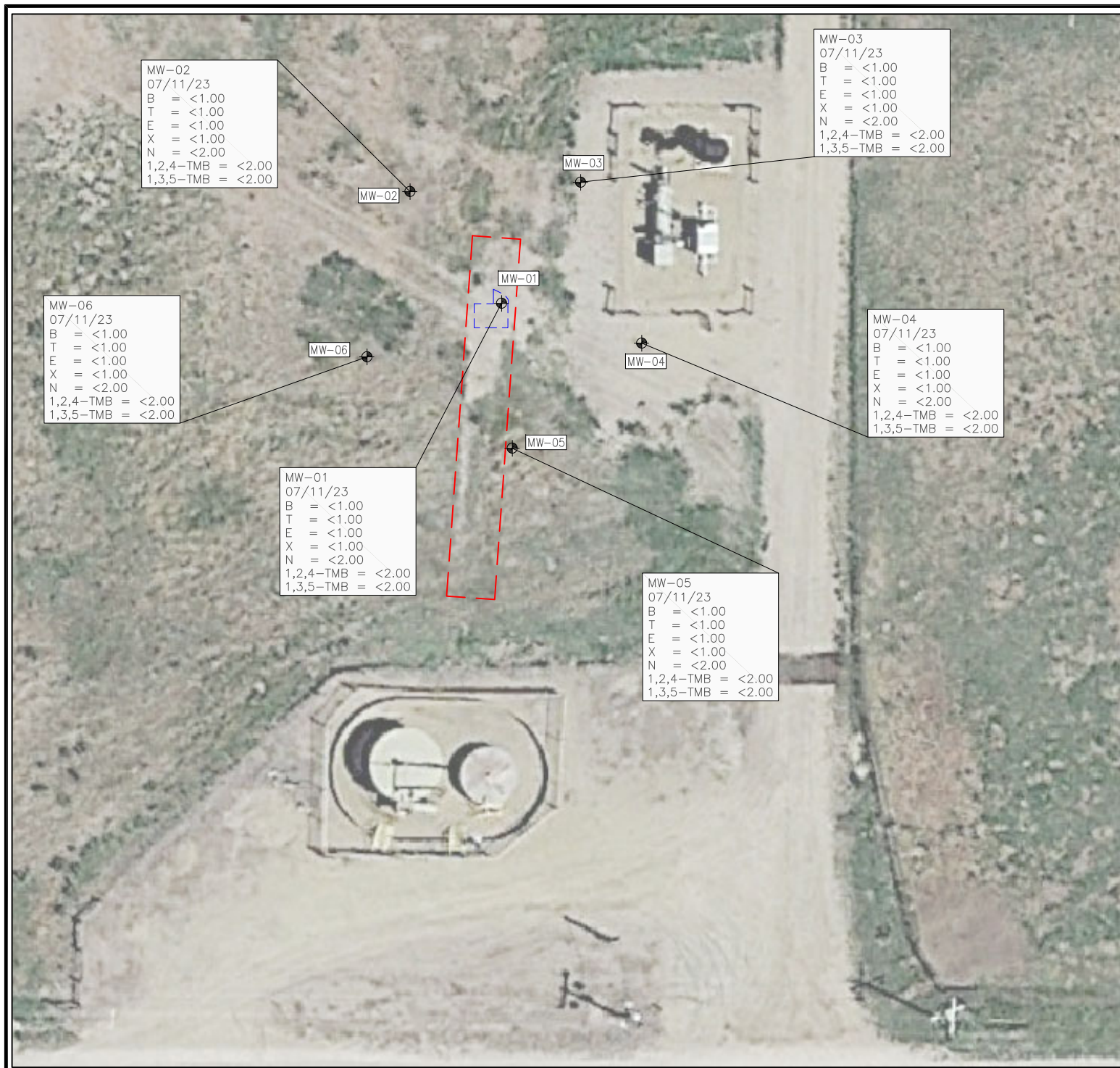




## **FIGURES**

**Figure 1: Groundwater Analytical Map (07/11/23)**

**Figure 2: Groundwater Elevation Map (07/11/23)**



#### LEGEND

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS

#### PARAMETERS

##### GROUNDWATER SAMPLE LOCATION

##### DATE

B = BENZENE (µg/L)

T = TOLUENE (µg/L)

E = ETHYLBENZENE (µg/L)

X = TOTAL XYLENES (µg/L)

N = NAPHTHALENE (µg/L)

1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)

1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)

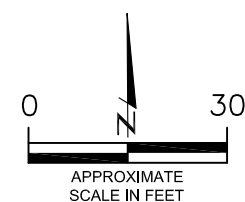
µg/L = MICROGRAMS PER LITER

##### NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT.

VALUES PRESENTED IN **BOLD** EXCEED THE APPLICABLE COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



#### GROUNDWATER ANALYTICAL MAP

(07/11/23)

LIBSACK 4-8-27

VENT LINE RELEASE

40.276553 / -104.644507

SW¼ SE¼ SEC.27 T4N R65W 6PM

WELD COUNTY, COLORADO

LOCATION ID 310312

REMEDIATION # 23926

DATE:

07/27/23

DRAWN BY:

IM

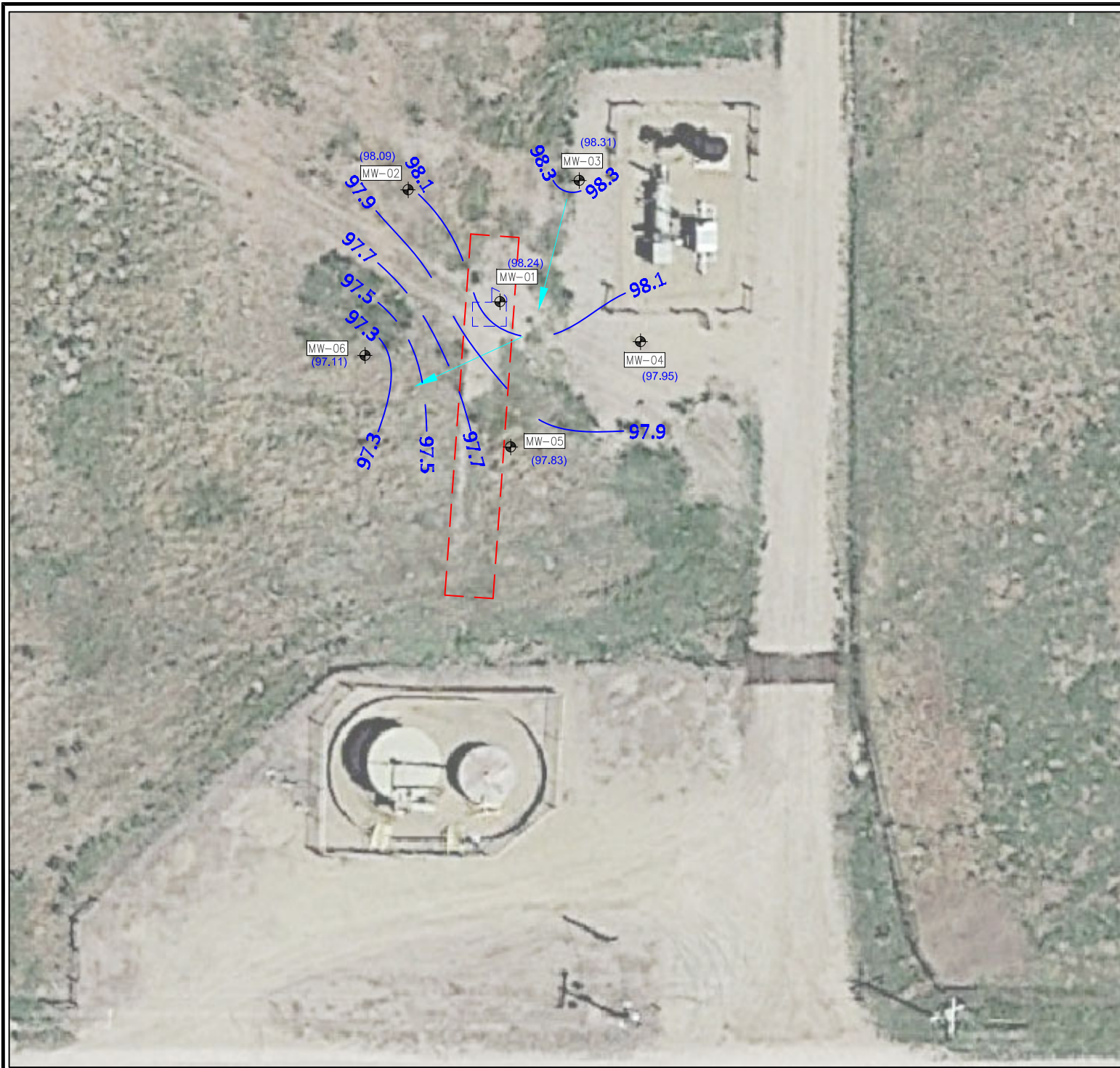
FIG.  
NO. 1



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449





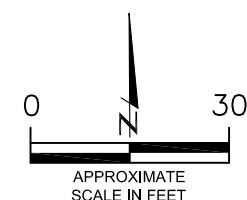
# **LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS
- (91.45) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE: GROUNDWATER ELEVATION DATA COLLECTED ON 07/11/23.

HYDRAULIC GRADIENT (MW-03 TO MW-05): 0.008 FT./FT



GROUNDWATER ELEVATION MAP  
(07/11/23)  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SE¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

DATE:  
07/27/23  
DRAWN BY:  
IM  
FIG.  
NO. 2



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Groundwater Elevation Summary**

TABLE 1  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5 - Trimethylbenzene (µg/L)
<b>COGCC Table 915-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>
GW-01 (40.276553 / -104.644507)	07/06/22	<b>49.1</b>	116	<1.00	309	<2.00	7.70	25.7
MW-01 (40.276562117 / -104.644501207)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.276628485 / -104.644572364)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.276630801 / -104.644441206)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.276541392 / -104.644401104)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.276482328 / -104.644504078)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-06 (40.276530662 / -104.655607801)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
COGCC = Colorado Oil and Gas Conservation Commission								
µg/L - micrograms per liter								
Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.								
Values presented in <b>bold</b> typeface exceed their respective COGCC - Regulatory Limits (Table 915-1).								

TABLE 2  
GROUNDWATER ELEVATION SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDIATION # 23926

Sample Location (Latitude/Longitude)	Date	Relative Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.276562117 / -104.644501207)	10/20/22	99.97	1.86	98.11
	01/24/23		1.76	98.21
	04/19/23		2.10	97.87
	07/11/23		1.73	98.24
MW-02 (40.276628485 / -104.644572364)	10/20/22	99.93	2.10	97.83
	01/24/23		2.03	97.90
	04/19/23		2.39	97.54
	07/11/23		1.84	98.09
MW-03 (40.276630801 / -104.644441206)	10/20/22	100.00	1.79	98.21
	01/24/23		1.70	98.30
	04/19/23		2.01	97.99
	07/11/23		1.69	98.31
MW-04 (40.276541392 / -104.644401104)	10/20/22	99.94	2.11	97.83
	01/24/23		2.00	97.94
	04/19/23		2.32	97.62
	07/11/23		1.99	97.95
MW-05 (40.276482328 / -104.644504078)	10/20/22	99.88	2.32	97.56
	01/24/23		2.22	97.66
	04/19/23		2.44	97.44
	07/11/23		2.05	97.83
MW-06 (40.276530662 / -104.655607801)	10/20/22	99.96	1.99	97.97
	01/24/23		1.97	97.99
	04/19/23		2.29	97.67
	07/11/23		2.85	97.11
NOTES: TOC - top of casing				



## **ATTACHMENT A**

### **Laboratory Analytical Reports (4Q22 thru 3Q23)**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

October 27, 2022

Martin Eckart III  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550  
RE: Libsack 4-8-27

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/22 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell". The signature is fluid and cursive, with the first name "Mikayla" and the last name "Axtell" clearly distinguishable.

Mikayla Axtell For Paul Shrewsbury  
President





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2210377-01	Water	10/20/22 09:15	10/21/22 13:35
MW-02	2210377-02	Water	10/20/22 08:35	10/21/22 13:35
MW-03	2210377-03	Water	10/20/22 08:45	10/21/22 13:35
MW-04	2210377-04	Water	10/20/22 08:55	10/21/22 13:35
MW-05	2210377-05	Water	10/20/22 09:25	10/21/22 13:35
MW-06	2210377-06	Water	10/20/22 09:05	10/21/22 13:35

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## 57

303-277-9310

Page 1 of

Project Manager: Martha Eckert III / Invoice: Jacob

E-Mail: mce3@eagle-cnviro.com

Project Name: Libsack 4-8-27

Project Number:

Project Number:

www.s2scientific.com

S<sub>2</sub>

2210377

## Sample Receipt Checklist

S2 Work Order# \_\_\_\_\_

Client: E954 Client Project ID: C. Vi Libsack 4-8-22Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 3.4 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

10-21-22 1335



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-01**  
**2210377-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.3 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-02**  
**2210377-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		71.3 %		21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-03**  
**2210377-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		82.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %		21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-04**  
**2210377-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		87.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		72.0 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-05**  
**2210377-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		70.9 %		21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-06**  
**2210377-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 09:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %		21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0690 - EPA 5030 Water MS

##### Blank (BFJ0690-BLK1)

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.7	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

##### LCS (BFJ0690-BS1)

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	44.6	1.0	ug/l	50.0		89.2	51-132			
Toluene	56.8	1.0	"	50.0		114	51-138			
Ethylbenzene	52.9	1.0	"	50.0		106	58-146			
m,p-Xylene	106	2.0	"	100		106	57-144			
o-Xylene	50.9	1.0	"	50.0		102	53-146			
Naphthalene	51.2	1.0	"	50.0		102	70-130			
1,2,4-Trimethylbenzene	52.4	1.0	"	50.0		105	70-130			
1,3,5-Trimethylbenzene	52.8	1.0	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111	23-173			
Surrogate: Toluene-d8	18.8		"	13.3		141	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### Matrix Spike (BFJ0690-MS1)

Source: 2210354-01

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	44.7	1.0	ug/l	50.0	ND	89.5	34-141			
Toluene	53.0	1.0	"	50.0	ND	106	27-151			
Ethylbenzene	54.5	1.0	"	50.0	ND	109	29-160			
m,p-Xylene	110	2.0	"	100	ND	110	20-166			
o-Xylene	52.1	1.0	"	50.0	ND	104	33-159			
Naphthalene	48.3	1.0	"	50.0	ND	96.6	70-130			
1,2,4-Trimethylbenzene	56.8	1.0	"	50.0	ND	114	70-130			
1,3,5-Trimethylbenzene	56.8	1.0	"	50.0	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.4		"	13.3		85.5	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.1	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0690 - EPA 5030 Water MS

Matrix Spike Dup (BFJ0690-MSD1)		Source: 2210354-01			Prepared: 10/25/22 Analyzed: 10/26/22					
Benzene	43.5	1.0	ug/l	50.0	ND	87.1	34-141	2.72	30	
Toluene	57.4	1.0	"	50.0	ND	115	27-151	8.08	30	
Ethylbenzene	57.3	1.0	"	50.0	ND	115	29-160	5.08	30	
m,p-Xylene	115	2.0	"	100	ND	115	20-166	4.55	30	
o-Xylene	53.7	1.0	"	50.0	ND	107	33-159	3.02	30	
Naphthalene	51.9	1.0	"	50.0	ND	104	70-130	7.28	30	
1,2,4-Trimethylbenzene	57.0	1.0	"	50.0	ND	114	70-130	0.316	30	
1,3,5-Trimethylbenzene	57.2	1.0	"	50.0	ND	114	70-130	0.684	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

### Notes and Definitions

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
RPD	Relative Percent Difference



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 26, 2022

Martin Eckart III  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550

RE: Libsack 4-8-27

Work Order #2210378

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/22 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell".

Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2210378-01	Water	10/21/22 11:25	10/21/22 13:35
MW-02	2210378-02	Water	10/21/22 11:35	10/21/22 13:35
MW-03	2210378-03	Water	10/21/22 10:55	10/21/22 13:35
MW-04	2210378-04	Water	10/21/22 10:45	10/21/22 13:35
MW-05	2210378-05	Water	10/21/22 11:05	10/21/22 13:35
MW-06	2210378-06	Water	10/21/22 11:15	10/21/22 13:35

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

$S_2$ 

303-277-9310

Page 1 of 1

Project Number:

www.s2scientific.com

S<sub>2</sub>

2210378

## Sample Receipt Checklist

S2 Work Order#

Client: Eggle Client Project ID: Civil. L. Lysack 4-8-27Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 3.4Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

10-31-22 1335



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-01**  
**2210378-01 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	<b>375</b>	12.0	mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	<b>381</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	<b>1490</b>	10.0	mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-02**  
**2210378-02 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>247</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>293</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1770</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-03**  
**2210378-03 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>539</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>590</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1820</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-04**  
**2210378-04 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>375</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>392</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1470</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-05**  
**2210378-05 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>204</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>262</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1040</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-06**  
**2210378-06 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>396</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>346</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1430</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0634 - General Preparation

##### Blank (BFJ0634-BLK1)

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BFJ0634-BS1)

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	3.14	0.0600	mg/L	3.00	105	90-110
Sulfate	14.8	0.300	"	15.0	98.6	90-110

##### Duplicate (BFJ0634-DUP1)

Source: 2210332-01

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	9.60	12.0	mg/L	10.4	8.00	20
Sulfate	1380	60.0	"	1210	12.9	20

##### Matrix Spike (BFJ0634-MS1)

Source: 2210332-01

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	627	12.0	mg/L	600	10.4	103	80-120
Sulfate	4460	60.0	"	3000	1210	108	80-120

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**Total Dissolved Solids by SM2540C - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting			Spike	Source	%REC		RPD		
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

**Batch BFJ0624 - General Preparation**

**Blank (BFJ0624-BLK1)**

Prepared: 10/23/22 Analyzed: 10/24/22

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BFJ0624-DUP1)**

Source: 2210369-01

Prepared: 10/23/22 Analyzed: 10/24/22

Total Dissolved Solids 725 10.0 mg/L 712 1.85 20

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

### Notes and Definitions

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
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 27, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Libsack #4-8-27

Work Order # 2301415

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/23 11:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2301415-01	Water	01/24/23 11:05	01/24/23 11:47
MW-02	2301415-02	Water	01/24/23 10:55	01/24/23 11:47
MW-03	2301415-03	Water	01/24/23 10:45	01/24/23 11:47
MW-04	2301415-04	Water	01/24/23 10:35	01/24/23 11:47
MW-05	2301415-05	Water	01/24/23 10:25	01/24/23 11:47
MW-06	2301415-06	Water	01/24/23 10:15	01/24/23 11:47

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

2301415

Client: Eagle Environmental Consulting

Project Manager: Martin Eckert III / Invoice: Jacob

Address: 7800 W 44th Ave

E-Mail: mce3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Liback #4-8-27

Sampler Name: TC/EL

Project Number:

Page 1 of 1

					Preservative				Matrix				Analysis Requested						Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX-8260D	Naphthalene-8260D	Tolyls-8260D						
1	MW-01	01/24/23	1105	3	X				X				X	X	X						
2	MW-02	↓	1055	↓	↓				↓				↓	↓	↓						MDLs needed
3	MW-03		1045																		
4	MW-04		1035																		
5	MW-05		1025																		
6	MW-06	↓	1015	↓	↓				↓				↓	↓	↓						
7																					
8																					
9																					
10																					

Relinquished by: Trevor Copple 1-24-23/1147

Date/Time:

Received by: [Signature]

Date/Time:

1/24/23 11:47

Turn Around Time

(Check)

Same Day

72 hours

24 hours

Standard

48 hours

X

Sample Integrity:

Samples Intact:

Yes

No

Notes:

Temperature Upon Receipt:

4.6

Corrected Temperature

—

HNO<sub>3</sub> lot #

—

IR gun correction:

—

IR gun #:

2

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2301415Client: Eagle Environmental Consulting

Client Project ID:

Libsack #4-8-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

4.6

Thermometer #

2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

None<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
Juno  
Custodian Printed Name

1/24/23  
Date/Time



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-01**  
**2301415-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %		21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-02**  
**2301415-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		78.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-03**  
**2301415-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-04**  
**2301415-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		72.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-05**  
**2301415-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**MW-06**  
**2301415-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BGA0618 - EPA 5030 Water MS

##### Blank (BGA0618-BLK1)

Prepared & Analyzed: 01/25/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.0		"	13.3		82.2	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3	21-167			

##### LCS (BGA0618-BS1)

Prepared & Analyzed: 01/25/23

Benzene	42.7	1.0	ug/l	50.0		85.3	51-132			
Toluene	44.7	1.0	"	50.0		89.4	51-138			
Ethylbenzene	46.6	1.0	"	50.0		93.2	58-146			
m,p-Xylene	96.7	2.0	"	100		96.7	57-144			
o-Xylene	47.4	1.0	"	50.0		94.8	53-146			
Naphthalene	47.8	1.0	"	50.0		95.7	70-130			
1,2,4-Trimethylbenzene	47.8	1.0	"	50.0		95.6	70-130			
1,3,5-Trimethylbenzene	47.3	1.0	"	50.0		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.2		"	13.3		76.5	23-173			
Surrogate: Toluene-d8	12.5		"	13.3		93.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	21-167			

##### Matrix Spike (BGA0618-MS1)

Source: 2301374-01

Prepared & Analyzed: 01/25/23

Benzene	44.3	1.0	ug/l	50.0	ND	88.7	34-141			
Toluene	46.9	1.0	"	50.0	ND	93.7	27-151			
Ethylbenzene	48.9	1.0	"	50.0	ND	97.8	29-160			
m,p-Xylene	102	2.0	"	100	ND	102	20-166			
o-Xylene	48.9	1.0	"	50.0	ND	97.7	33-159			
Naphthalene	43.6	1.0	"	50.0	ND	87.2	70-130			
1,2,4-Trimethylbenzene	50.3	1.0	"	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	50.0	1.0	"	50.0	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.37		"	13.3		70.3	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.4	21-167			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BGA0618 - EPA 5030 Water MS

Matrix Spike Dup (BGA0618-MSD1)	Source: 2301374-01			Prepared & Analyzed: 01/25/23						
Benzene	44.3	1.0	ug/l	50.0	ND	88.7	34-141	0.00	30	
Toluene	46.6	1.0	"	50.0	ND	93.3	27-151	0.492	30	
Ethylbenzene	48.5	1.0	"	50.0	ND	97.0	29-160	0.739	30	
m,p-Xylene	100	2.0	"	100	ND	100	20-166	1.12	30	
o-Xylene	48.6	1.0	"	50.0	ND	97.2	33-159	0.554	30	
Naphthalene	43.7	1.0	"	50.0	ND	87.4	70-130	0.229	30	
1,2,4-Trimethylbenzene	50.8	1.0	"	50.0	ND	102	70-130	0.950	30	
1,3,5-Trimethylbenzene	50.7	1.0	"	50.0	ND	101	70-130	1.47	30	
Surrogate: 1,2-Dichloroethane-d4	9.37		"	13.3		70.3	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.9	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

### Notes and Definitions

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
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 31, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Libsack #4-8-27

Work Order # 2301416

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/23 11:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is written in a cursive, flowing style.

Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2301416-01	Water	01/24/23 11:05	01/24/23 11:47
MW-02	2301416-02	Water	01/24/23 10:55	01/24/23 11:47
MW-03	2301416-03	Water	01/24/23 10:45	01/24/23 11:47
MW-04	2301416-04	Water	01/24/23 10:35	01/24/23 11:47
MW-05	2301416-05	Water	01/24/23 10:25	01/24/23 11:47
MW-06	2301416-06	Water	01/24/23 10:15	01/24/23 11:47

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

2301416

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Martin Eckert III / Invoice = Jacob

Address: 8000 W 44th Ave

E-Mail: mce3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80035

Phone: 303-433-0479

Project Name: Libsack #4-8-27

Sampler Name: TC/EL

Project Number:                     

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	TDS-2540C	Chloride-EPA 300.0	Sulfate-EPA 300.0				
1	MW-01	01/24/23	1105	1			X		X				X	X	X				MDLs needed
2	MW-02		1055																
3	MW-03		1045																
4	MW-04		1035																
5	MW-05		1025																
6	MW-06		1015																
7																			
8																			
9																			
10																			

Relinquished by: <u>Trevor Copple</u>	Date/Time: <u>1-24-23/1147</u>	Received by: <u>                    </u>	Date/Time: <u>1/24/23 11:47</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>                    </u>	Date/Time: <u>                    </u>	Received by: <u>                    </u>	Date/Time: <u>                    </u>	Same Day <u>      </u> 72 hours <u>      </u>	
				24 hours <u>      </u> Standard <u>X</u>	
				48 hours <u>      </u>	
Temperature Upon Receipt: <u>4.6</u>	Corrected Temperature <u>      </u>	HNO <sub>3</sub> lot # <u>      </u>	Sample Integrity:		
IR gun correction: <u>      </u>	IR gun #: <u>2</u>		Samples Intact: <u>Yes</u> No		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2301416Client: Eagle Environmental Consulting Client Project ID: Libsack # 4-8-27Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 4.6 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

Polys<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
Jmw  
 Custodian Printed Name

1/24/23  
 Date/Time



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

**MW-01**  
**2301416-01 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	<b>418</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	<b>431</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	<b>1740</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

**MW-02**  
**2301416-02 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Chloride</b>	<b>258</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
<b>Sulfate</b>	<b>359</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1260</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**

01/31/23 14:51

**MW-03**

**2301416-03 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Chloride</b>	<b>244</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
<b>Sulfate</b>	<b>352</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1140</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**

01/31/23 14:51

**MW-04**

**2301416-04 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Chloride</b>	<b>326</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
<b>Sulfate</b>	<b>440</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1500</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**

01/31/23 14:51

**MW-05**  
**2301416-05 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Chloride</b>	<b>457</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
<b>Sulfate</b>	<b>477</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1730</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

**MW-06**  
**2301416-06 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Chloride</b>	<b>422</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
<b>Sulfate</b>	<b>430</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1730</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**

01/31/23 14:51

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BGA0625 - General Preparation

##### Blank (BGA0625-BLK1)

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	ND	0.0600	mg/L
Sulfate	0.0352	0.300	"

##### LCS (BGA0625-BS1)

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	3.21	0.0600	mg/L	3.00	107	90-110
Sulfate	16.5	0.300	"	15.0	110	90-110

##### Duplicate (BGA0625-DUP1)

Source: 2301416-01

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	425	12.0	mg/L	418	1.71	20
Sulfate	462	60.0	"	431	6.89	20

##### Matrix Spike (BGA0625-MS1)

Source: 2301416-01

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	1000	12.0	mg/L	600	418	97.7	80-120
Sulfate	3470	60.0	"	3000	431	101	80-120

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**

01/31/23 14:51

### Total Dissolved Solids by SM2540C - Quality Control

#### Summit Scientific

Analyte	Result	Reporting			Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

#### Batch BGA0620 - General Preparation

##### Blank (BGA0620-BLK1)

Prepared & Analyzed: 01/25/23

Total Dissolved Solids ND 10.0 mg/L

##### Duplicate (BGA0620-DUP1)

Source: 2301400-01

Prepared & Analyzed: 01/25/23

Total Dissolved Solids 538 10.0 mg/L 562 4.24 20

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

### Notes and Definitions

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
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

April 27, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Civitas - Libsack 4-8-27

Work Order # 2304404

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/23 13:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

### ANALYTICAL REPORT FOR SAMPLES

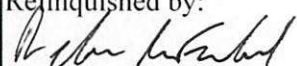
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2304404-01	Water	04/19/23 11:30	04/19/23 13:47
MW-02	2304404-02	Water	04/19/23 11:40	04/19/23 13:47
MW-03	2304404-03	Water	04/19/23 11:50	04/19/23 13:47
MW-04	2304404-04	Water	04/19/23 12:00	04/19/23 13:47
MW-05	2304404-05	Water	04/19/23 12:10	04/19/23 13:47
MW-06	2304404-06	Water	04/19/23 12:20	04/19/23 13:47

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Client: Eagle Environmental Consulting		Send Data To:		Send Invoice To:	
Address: 8000 W 44th Ave		Project Manager: Martin Eckert III		Company: Civitas / Bill to Jacob	
City/State/Zip: Wheat Ridge, CO 80033		E-Mail: mce3@eagle-enviro.com		Project Name/Location: Libsack 4-8-27	
Phone: 303-433-0479		Project Name: Libsack 4-8-27		AFE#:	
Sampler Name: IM		Project Number: —		PO/Billing Codes:	
				Contact:	

			Preservative				Matrix				Analysis Requested				Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other						
1	MW-01	4/19/23	1130	3	X				X			X						
2	MW-02	↓	1140	↓	↓				↓			↓						
3	MW-03		1150	↓	↓													
4	MW-04		1200	↓	↓													
5	MW-05		1210	↓	↓													
6	MW-06	↓	1220	↓	↓				↓			↓						
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: 	Date/Time: 4/19/23 1347	Received by: Sherree Bahr	Date/Time: 4/19/23 1347	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 5.3	Corrected Temperature:	IR gun #: 2	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order#

2304404

Client: Eagle Environmental Consulting Client Project ID: Libsack 4-8-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

SB

Custodian Printed Name

4/19/23 13:47

Date/Time



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-01**  
**2304404-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-02**  
**2304404-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		129 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-03**  
**2304404-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		126 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		21-167		"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-04**  
**2304404-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		125 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-05**  
**2304404-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

**MW-06**  
**2304404-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BGD0790 - EPA 5030 Water MS

##### Blank (BGD0790-BLK1)

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### LCS (BGD0790-BS1)

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	37.6	1.0	ug/l	41.7		90.3	51-132			
Toluene	38.7	1.0	"	41.7		92.8	51-138			
Ethylbenzene	41.5	1.0	"	41.7		99.7	58-146			
m,p-Xylene	82.6	2.0	"	83.3		99.2	57-144			
o-Xylene	39.9	1.0	"	41.7		95.8	53-146			
Naphthalene	37.2	1.0	"	41.7		89.3	70-130			
1,2,4-Trimethylbenzene	44.1	1.0	"	41.7		106	70-130			
1,3,5-Trimethylbenzene	44.8	1.0	"	41.7		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3		118	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	21-167			

##### Matrix Spike (BGD0790-MS1)

Source: 2304404-01

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	37.5	1.0	ug/l	41.7	ND	90.0	34-141			
Toluene	39.2	1.0	"	41.7	ND	94.0	27-151			
Ethylbenzene	42.1	1.0	"	41.7	ND	101	29-160			
m,p-Xylene	82.9	2.0	"	83.3	ND	99.5	20-166			
o-Xylene	40.4	1.0	"	41.7	ND	97.0	33-159			
Naphthalene	48.7	1.0	"	41.7	ND	117	70-130			
1,2,4-Trimethylbenzene	44.7	1.0	"	41.7	ND	107	70-130			
1,3,5-Trimethylbenzene	45.1	1.0	"	41.7	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	17.1		"	13.3		129	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	21-167			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BGD0790 - EPA 5030 Water MS

Matrix Spike Dup (BGD0790-MSD1)	Source: 2304404-01			Prepared: 04/24/23 Analyzed: 04/25/23						
Benzene	35.6	1.0	ug/l	41.7	ND	85.3	34-141	5.37	30	
Toluene	37.0	1.0	"	41.7	ND	88.9	27-151	5.59	30	
Ethylbenzene	40.2	1.0	"	41.7	ND	96.5	29-160	4.62	30	
m,p-Xylene	80.1	2.0	"	83.3	ND	96.1	20-166	3.44	30	
o-Xylene	38.6	1.0	"	41.7	ND	92.7	33-159	4.53	30	
Naphthalene	46.8	1.0	"	41.7	ND	112	70-130	3.90	30	
1,2,4-Trimethylbenzene	43.3	1.0	"	41.7	ND	104	70-130	3.09	30	
1,3,5-Trimethylbenzene	43.4	1.0	"	41.7	ND	104	70-130	3.77	30	
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.3		120	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

### Notes and Definitions

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
RPD	Relative Percent Difference





July 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Civitas - Libsack 4-8-27

Project Number - [none]

Attached are your analytical results for Civitas - Libsack 4-8-27 received by Origins Laboratory, Inc. July 11, 2023. This project is associated with Origins project number Y307222-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Civitas - Libsack 4-8-27

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y307222-01	Water	July 11, 2023 11:30	07/11/2023 17:10
MW-02	Y307222-02	Water	July 11, 2023 11:50	07/11/2023 17:10
MW-03	Y307222-03	Water	July 11, 2023 12:10	07/11/2023 17:10
MW-04	Y307222-04	Water	July 11, 2023 12:30	07/11/2023 17:10
MW-05	Y307222-05	Water	July 11, 2023 12:50	07/11/2023 17:10
MW-06	Y307222-06	Water	July 11, 2023 13:10	07/11/2023 17:10

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

4307222

page 1 of 1

Client: Eagle Env. Consulting  
Address: 8000 W. 44th Ave  
Telephone Number: (303) 433-0179  
Email Address: MCE@eagle-env.com

Project Manager: Martin Eckert III  
Project Name: Libsack 4-8-27  
Project Number: -  
Samples Collected By: SL

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa		
MW-01	07/11/23	11:30	3	X				X				1
MW-02		11:50										2
MW-03		12:10										3
MW-04		12:30										4
MW-05		12:50										5
MW-06		13:10										6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
	07/11/23	17:10		7/11/23	17:10	Some Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
						48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
						Standard <input checked="" type="checkbox"/>

Date Results Needed *Civitas*

Temp Received-

*Bill A Jacob*

Origins Laboratory, Inc.

*J Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: 4307222 Client: Eagle  
Client Project ID: Libsack 4-8-27

Checklist Completed by: SHS Shipped Via: HO  
Date/time completed: 7/12/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply) ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe)  
Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) MP Date/Time Reviewed 7/13/23

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-01

7/11/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-02

7/11/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-02 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-03

7/11/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-03 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-04

7/11/2023 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-04 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-05

7/11/2023 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-05 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

## MW-06

7/11/2023 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307222-06 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

106 % 70-130 " " "  
98.8 % 70-130 " " "  
105 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1327 - EPA 5030B (Water)</b>										
<b>Blank (B3G1327-BLK1)</b>					Prepared: 07/13/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1327 - EPA 5030B (Water)</b>										
<b>LCS (B3G1327-BS1)</b>					Prepared: 07/13/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	48.2	2.00	ug/L	50.0		96.5	70-130			
1,3,5-Trimethylbenzene	47.8	2.00	"	50.0		95.5	70-130			
Benzene	47.2	1.00	"	50.0		94.3	70-130			
Ethylbenzene	46.2	1.00	"	50.0		92.5	70-130			
m,p-Xylene	92.5	2.00	"	100		92.5	70-130			
Naphthalene	44.8	2.00	"	50.0		89.7	70-130			
o-Xylene	44.0	1.00	"	50.0		88.0	70-130			
Toluene	47.1	1.00	"	50.0		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1327 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B3G1327-MS1)</b>		<b>Source: Y307222-01</b>			Prepared: 07/13/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	52.4	2.00	ug/L	50.0	ND	105	70-130			
1,3,5-Trimethylbenzene	53.2	2.00	"	50.0	ND	106	70-130			
Benzene	51.6	1.00	"	50.0	ND	103	70-130			
Ethylbenzene	51.5	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	99.1	2.00	"	100	ND	99.1	70-130			
Naphthalene	42.4	2.00	"	50.0	ND	84.8	70-130			
o-Xylene	47.7	1.00	"	50.0	ND	95.4	70-130			
Toluene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1327 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B3G1327-MSD1)</b>	<b>Source: Y307222-01</b>				Prepared: 07/13/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	53.4	2.00	ug/L	50.0	ND	107	70-130	1.89	20	
1,3,5-Trimethylbenzene	53.1	2.00	"	50.0	ND	106	70-130	0.169	20	
Benzene	51.4	1.00	"	50.0	ND	103	70-130	0.428	20	
Ethylbenzene	51.9	1.00	"	50.0	ND	104	70-130	0.793	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	3.76	20	
Naphthalene	44.6	2.00	"	50.0	ND	89.1	70-130	4.97	20	
o-Xylene	48.2	1.00	"	50.0	ND	96.4	70-130	0.959	20	
Toluene	52.0	1.00	"	50.0	ND	104	70-130	0.135	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Civitas - Libsack 4-8-27

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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## **ATTACHMENT B**

### **Historical Soil Data**



TABLE 1  
 PHOTOIONIZATION DETECTOR READING SUMMARY  
 LIBSACK 4-8-27  
 VENT LINE RELEASE  
 40.276553 / -104.644507  
 SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 310312  
 REMEDIATION # 23926

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
CS-SS-01 @ 3' (40.276590834 / -104.644498753)	09/06/22	3	1.2	Y
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	Y
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	Y
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	Y
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	Y
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	Y
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	Y
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	Y
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	Y
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	Y
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	Y
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	Y
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	Y
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	Y
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	Y
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	Y
MW-03 @ 2.5-5' (40.276630801 / -104.644441206)	10/13/22	2.5-5	2.7	Y
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	Y
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	Y
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

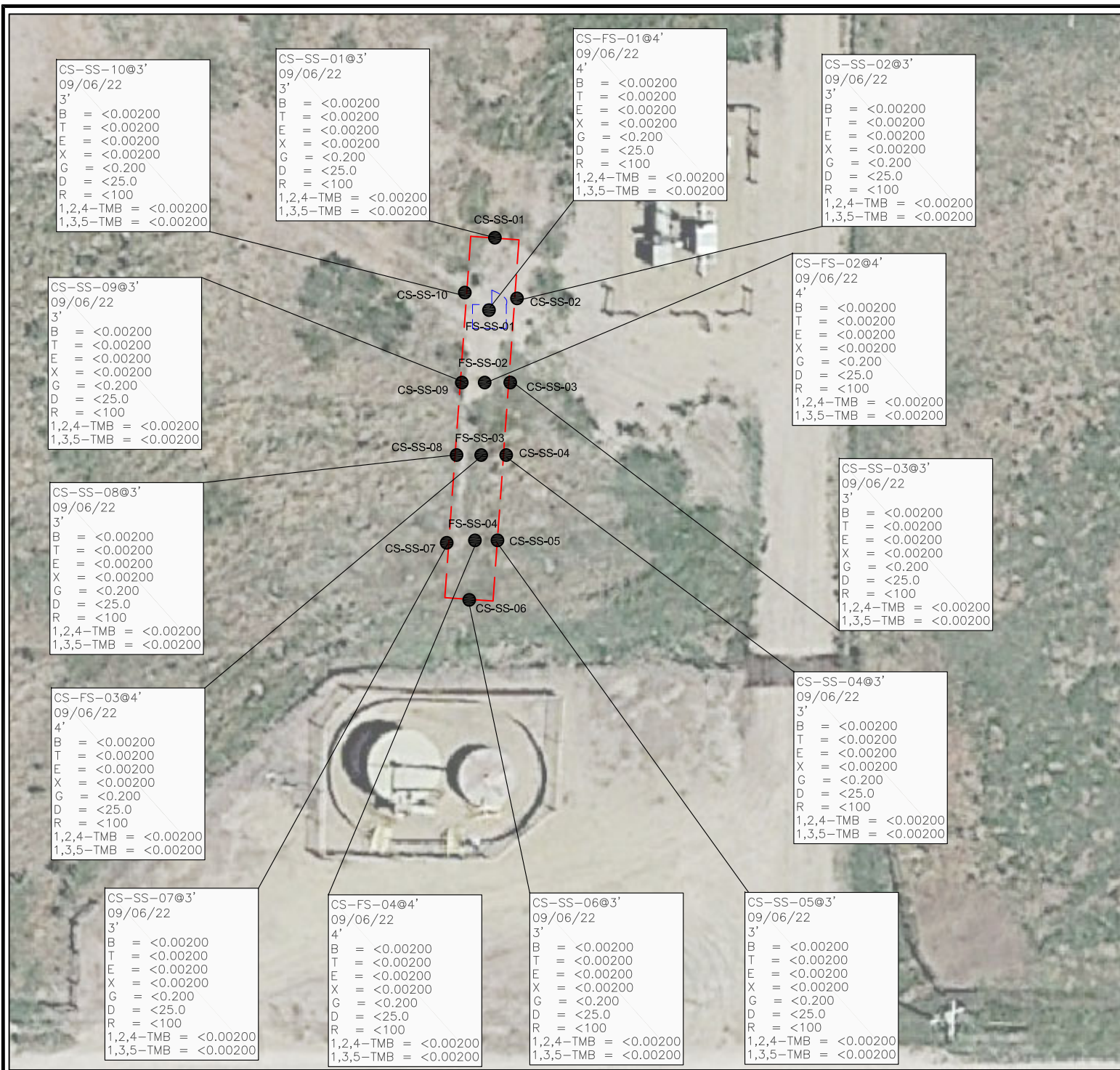
Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>
CS-SS-01 @ 3' (40.276590834 / -104.644498753)	09/06/22	3	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-03 @ 2.5-5' (40.276630801 / -104.644441206)	10/13/22	2.5-5	2.7	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics ppm-v = parts per million by volume      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics PID = Photoionization Detector      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics  Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Values presented in <b>BOLD</b> exceed applicable COGCC Table 915-1 Regulatory Limits Values presented in <b>BOLD+ asterisk (*)</b> exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels												

TABLE 3  
PAHS ANALYTICAL RESULTS SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.27653 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R6SW 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
CS-SS-01 @ 3' (40.276590834 / -104.644498753)	09/06/22	3	1.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00081	0.000606	<0.00067	<0.00067	<0.00067	0.000522	<0.00067	<0.00067	<0.00067	0.000712
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00123	0.000651	0.00091	0.000975	<0.00067	0.000764	<0.00067	<0.00067	<0.00067	0.000881
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	<0.00067	<0.00067	<0.00067	<0.00067	0.00118	0.00193	0.0012	0.00143	0.00228	<0.00067	0.00202	<0.00067	0.00112	<0.00067	0.00366
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	<0.00067	<0.00067	<0.00067	<0.00067	0.000938	0.00177	0.000887	0.00139	0.00187	<0.00067	0.00167	<0.00067	0.000742	<0.00067	0.0024
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	<0.00067	<0.00067	<0.00067	<0.00067	0.000539	0.00133	0.000847	0.000983	0.00124	<0.00067	0.00105	<0.00067	<0.00067	<0.00067	0.00136
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	<0.00067	<0.00067	<0.00067	<0.00067	0.000501	0.00171	0.000993	0.0011	0.00134	<0.00067	0.00111	<0.00067	0.000892	<0.00067	0.00134
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00238	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	<0.00067	<0.00067	<0.00067	<0.00067	0.000828	0.00234	0.00118	0.00155	0.00207	<0.00067	0.0017	<0.00067	0.0014	<0.00067	0.0022
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
MW-03 @ 2.5-5' (40.276630801 / -104.644441206)	10/13/22	2.5-5	2.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram ppm-v = parts per million by volume PID = Photoionization Detector Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Values presented in <b>BOLD</b> exceed applicable COGCC Table 915-1 Regulatory Limits Values presented in <b>BOLD</b> + asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels																		



# LEGEND

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

## PARAMETERS

### SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)

T = TOLUENE (mg/kg)

E = ETHYLBENZENE (mg/kg)

X = TOTAL XYLENES (mg/kg)

G = TPH-GRO (mg/kg)

D = TPH-DRO (mg/kg)

R = TPH-RRO (mg/kg)

1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)

1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

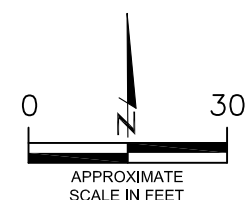
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

### NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



### SOIL ANALYTICAL MAP

LIBSACK 4-8-27

VENT LINE RELEASE

40.276553 / -104.644507

SW¼ SEC.27 T4N R65W 6PM

WELD COUNTY, COLORADO

LOCATION ID 310312

REMEDIATION # 23926

DATE:

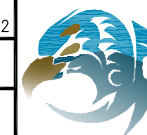
09/29/22

DRAWN BY:

GEC

FIG.  
NO.

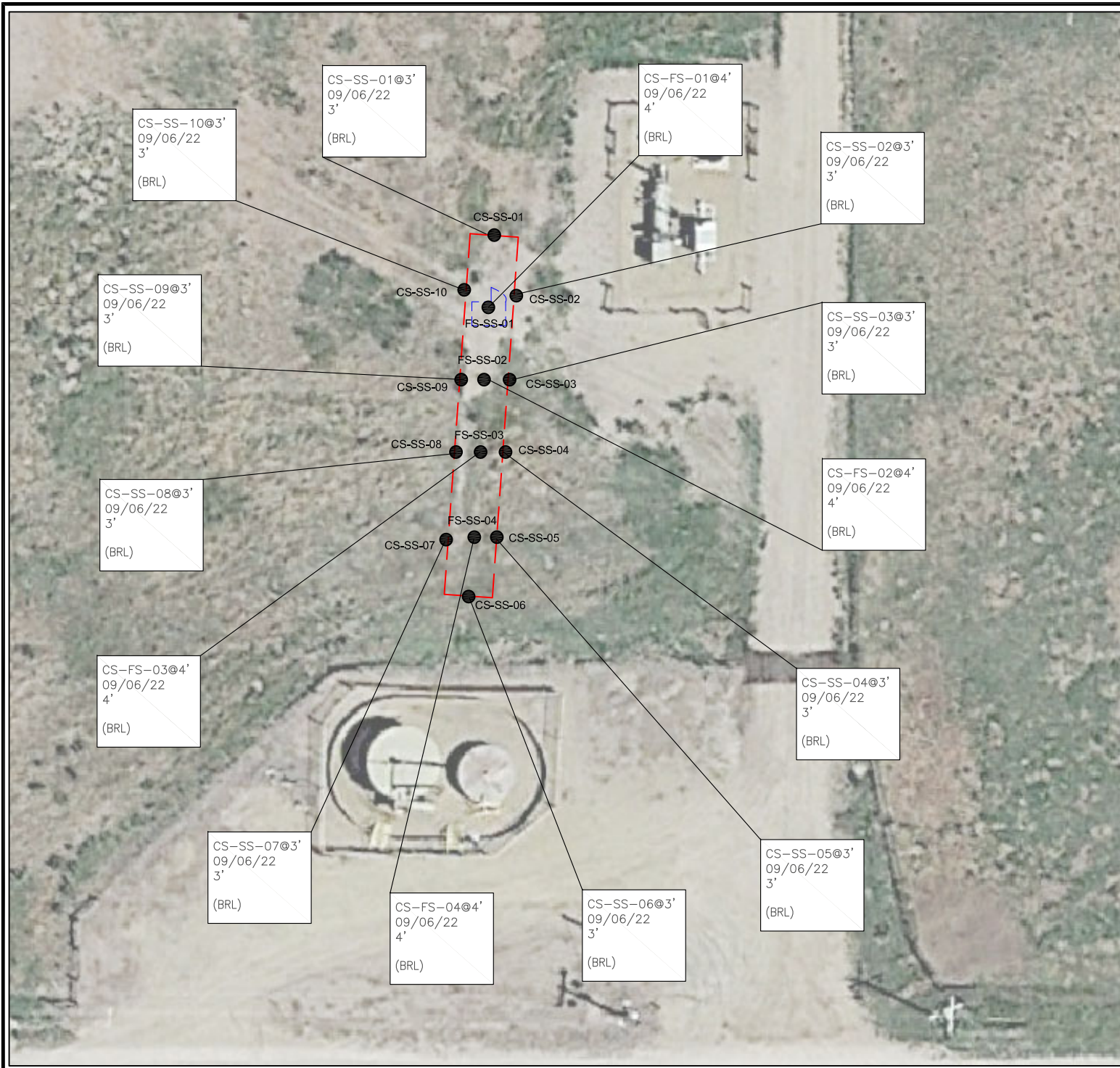
3



**EAGLE**  
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8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449





# LEGEND

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

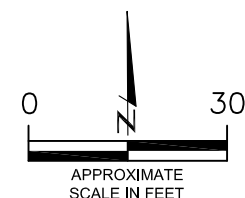
(BRL) = ALL CONCENTRATIONS ARE **BELOW** REGULATORY LIMITS

NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

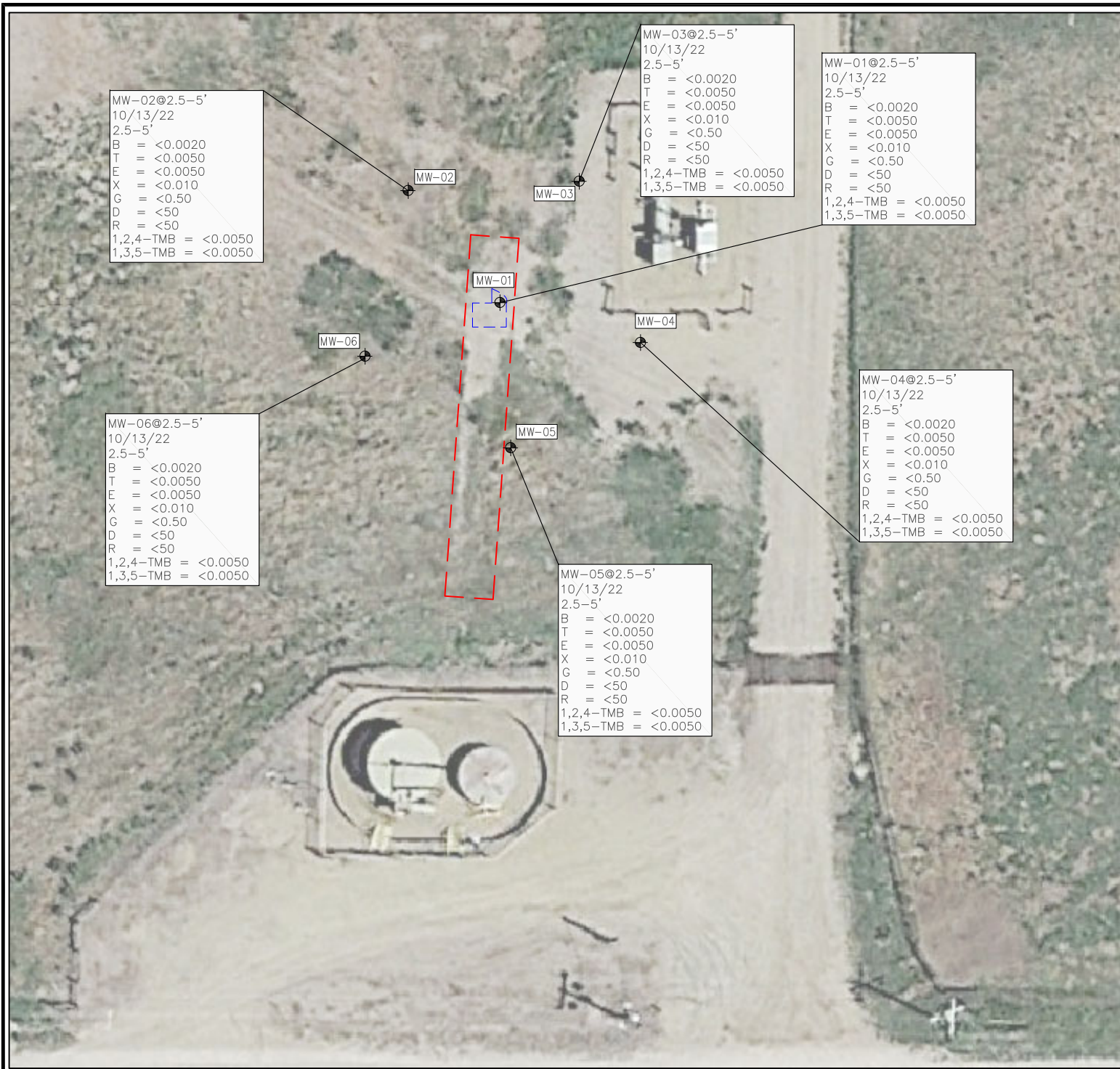


POLYCYCLIC AROMATIC HYDROCARBONS MAP  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDIATION # 23926

DATE:  
09/29/22  
DRAWN BY:  
GEC  
FIG.  
NO. 4







#### LEGEND

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS

#### PARAMETERS

SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

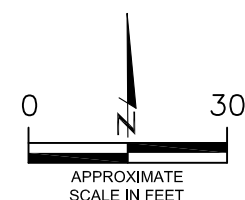
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

#### NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

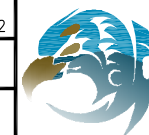
VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



MONITORING WELL SOIL ANALYTICAL MAP  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMIADIATION # 23926

DATE:  
11/07/22  
DRAWN BY:  
TC  
FIG.  
NO. 3



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