



FIGURES

Figure 1: Groundwater Analytical Map (04/19/23)

Figure 2: Groundwater Elevation Map (04/19/23)



LEGEND

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

PARAMETERS

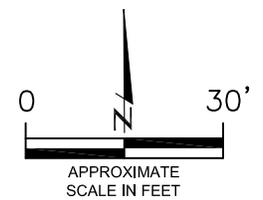
GROUNDWATER SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)
N = NAPHTHALENE (µg/L)
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)

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

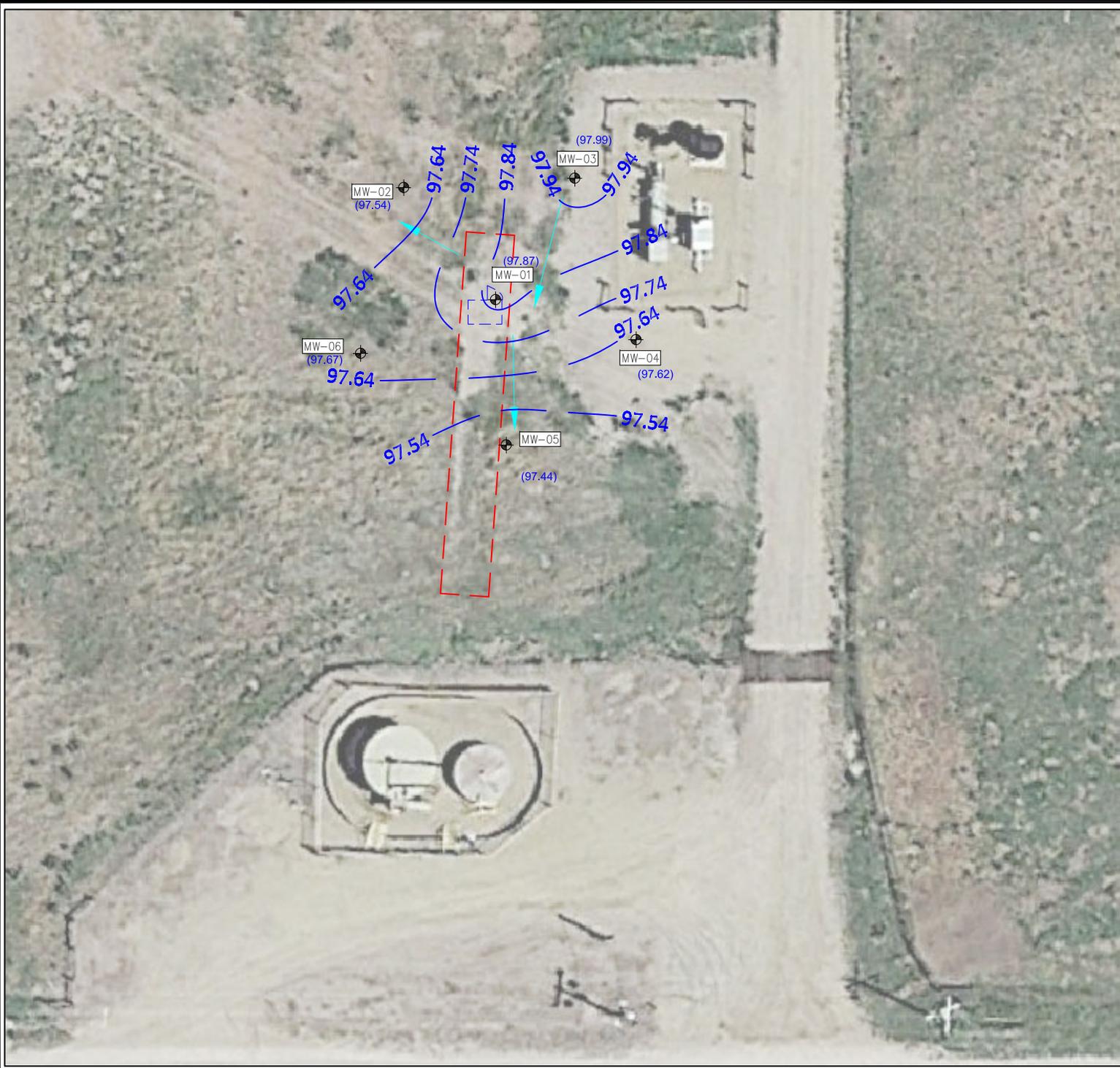


GROUNDWATER ANALYTICAL MAP

(04/19/23)
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:
04/27/23
DRAWN BY:
IM
FIG.
NO. 1

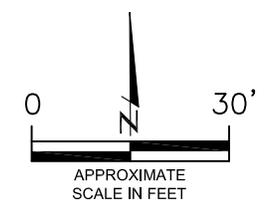
EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE 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 04/19/23.
 HYDRAULIC GRADIENT (MW-03 TO MW-05): 0.0096 FT./FT



GROUNDWATER ELEVATION MAP
 (04/19/23)
 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:
04/27/23
 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
REMEDIATION # 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)
COGCC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67
GW-01 (40.276553 / -104.644507)	07/06/22	49.1	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
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
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
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
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
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

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 **bold** 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
REMEDATION # 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
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
MW-03 (40.276630801 / -104.644441206)	10/20/22	100	1.79	98.21
	01/24/23		1.70	98.30
	04/19/23		2.01	97.99
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
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
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
NOTES: TOC - top of casing				





ATTACHMENT A

Laboratory Analytical Report

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,



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.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2304404	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Other <i>BTEX, Naphthalene, TABs - BZBD</i>	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #						
1	MW-01	4/19/23	1130	3	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: <i>[Signature]</i>	Date/Time: <i>4/19/23 1347</i>	Received by: <i>Sheree Bahr</i>	Date/Time: <i>4/19/23 1347</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <i>5.3</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

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? ⁽¹⁾ NOTE: 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? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ 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

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-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

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-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		"	"	"	"	

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

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			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

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		

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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