



FIGURES

Figure 1: Groundwater Analytical Map (08/01/23)

Figure 2: Groundwater Elevation Map (08/01/23)



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- OVER-EXCAVATION BOUNDARIES
- 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)
 1-M = 1-METHYLNAPHTHALENE (µg/L)
 2-M = 2-METHYLNAPHTHALENE (µg/L)
 B = BARIUM (mg/L)
 C = CHLORIDE (mg/L)
 S = SULFATE (mg/L)
 TDS = TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER
 mg/L = MILLIGRAMS PER LITER

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

THE INORGANIC GROUNDWATER PARAMETERS FROM UPGRADIENT MONITORING WELLS MW-05 AND MW-06 IN MAY 2023 WERE USED IN THE DETERMINATION OF "LOCAL BACKGROUND RANGE" AT THE SITE.

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS AND/OR ECMC NARRATIVE GROUNDWATER QUALITY STANDARDS*.

*ECMC REGULATORY LIMITS IN GROUNDWATER HAVE NOT BEEN ESTABLISHED FOR 1 & 2-METHYLNAPHTHALENE. ECMC IMPLEMENTS A NARRATIVE GROUNDWATER QUALITY STANDARD TAKEN FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL SCREENING LEVELS (RSLs) FOR TAPWATER, AS INCORPORATED BY REFERENCE IN RULE 901.B, TABLES FOR TARGET RISK ("TR")=1x10⁻⁶ AND TARGET HAZARD QUOTIENT ("THQ")=0.1. THE EPA RSL FOR TAPWATER, AND RESULTANT NARRATIVE GROUNDWATER QUALITY STANDARD FOR 1 & 2-METHYLNAPHTHALENE ARE 1.1 AND 3.6 µg/L, RESPECTIVELY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

GROUNDWATER ANALYTICAL MAP
 (08/01/23)

CARLSON 15-D PAD
 PRODUCED WATER RELEASE
 40.403155 / -104.641111
 NE¼ NE¼ SEC.15 T5N R65W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 331351
 REMEDIATION # 24136

DATE:
 08/10/23
 DRAWN BY:
 AMN
 FIG.
 NO. 1

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

MW-01
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = <2.0
 N = <1.0
 1,2,4-TMB = <1.0
 1,3,5-TMB = <1.0
 1-M = <0.500
 2-M = <0.500
 B = 0.0553
 C = 78.4
 S = 356
 TDS= 834

MW-02
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = 5.1
 N = <1.0
 1,2,4-TMB = 1.2
 1,3,5-TMB = <1.0
 1-M = **1.41**
 2-M = 0.921
 B = 0.0513
 C = 75.6
 S = 341
 TDS= 912

MW-03
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = <2.0
 N = <1.0
 1,2,4-TMB = <1.0
 1,3,5-TMB = <1.0
 1-M = <0.500
 2-M = <0.500
 B = 0.0466
 C = 72.2
 S = 497
 TDS= 1010

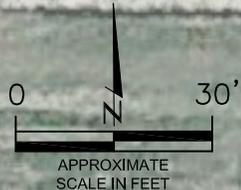
MW-06
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = <2.0
 N = <1.0
 1,2,4-TMB = <1.0
 1,3,5-TMB = <1.0
 1-M = <0.500
 2-M = <0.500
 B = 0.0393
 C = 78.4
 S = 355
 TDS= 884

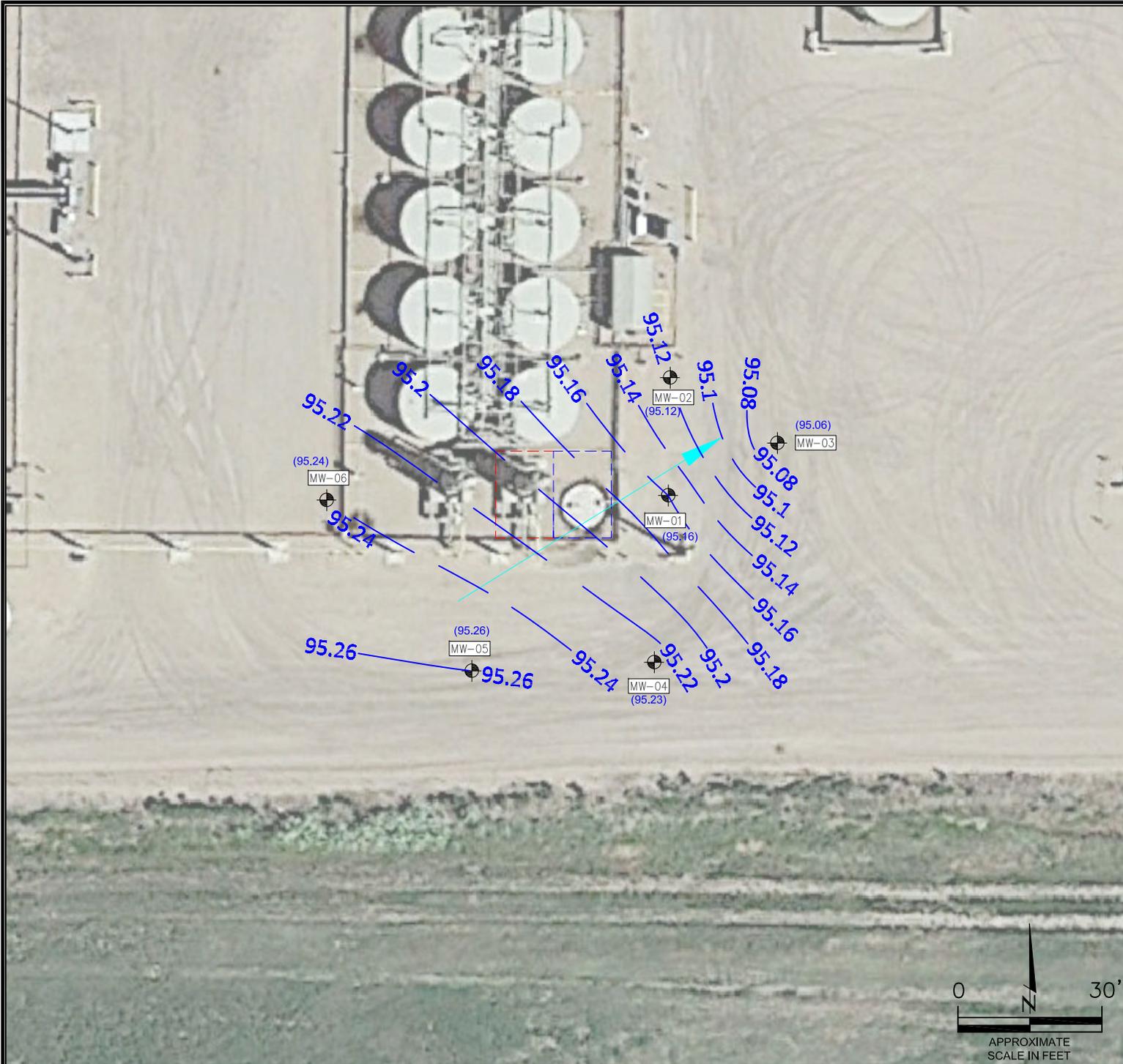
MW-05

MW-05
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = <2.0
 N = <1.0
 1,2,4-TMB = <1.0
 1,3,5-TMB = <1.0
 1-M = <0.500
 2-M = <0.500
 B = 0.0271
 C = 71.0
 S = 325
 TDS= 821

MW-04

MW-04
 08/01/23
 B = <1.0
 T = <1.0
 E = <1.0
 X = <2.0
 N = <1.0
 1,2,4-TMB = <1.0
 1,3,5-TMB = <1.0
 1-M = <0.500
 2-M = <0.500
 B = 0.0421
 C = 86.0
 S = 450
 TDS= 1060





LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- OVER-EXCAVATION BOUNDARIES
- 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 08/01/23.

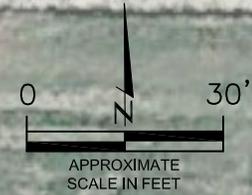
HYDRAULIC GRADIENT (MW-06 TO MW-03): 0.002 FT./FT

GROUNDWATER ELEVATION MAP
(08/01/23)
CARLSON 15-D PAD
PRODUCED WATER RELEASE
40.403155 / -104.641111
NE¼ NE¼ SEC.15 T5N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 331351
REMEDATION # 24136

DATE:
08/08/23
DRAWN BY:
AMN
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: Inorganic Groundwater Parameters Summary

Table 3: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
CARLSON 15-D PAD
PRODUCED WATER RELEASE
40.403155 / -104.641111
NE1/4 NE1/4 SEC.15 T5N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 331351
REMEDIATION # 24136

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)	1- Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Barium (mg/L)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67	--	--	--
ECMC Narrative Groundwater Quality Standards* (µg/L)		--	--	--	--	--	--	--	1.1*	3.6*	--
CDPHE WQCC Regulation 41 Standards (mg/L)		--	--	--	--	--	--	--	--	--	2.0
GW-01 (40.403169 / -104.641106)	06/28/22	1.32	<1.00	1.09	16.5	<2.00	<2.00	7.71	NA	NA	NA
GW-02 (40.403157 / -104.641140)	10/14/22	2.2	9.9	<1.0	110	4.6	22	35	NA	NA	NA
MW-01 (40.403152 / -104.641045)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0332
	08/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0553
MW-02 (40.403218 / -104.641032)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0402
	08/01/23	<1.0	<1.0	<1.0	5.1	<1.0	1.2	<1.0	1.41	0.921	0.0513
MW-03 (40.403177 / -104.641004)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0662
	08/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0466
MW-04 (40.403063 / -104.641065)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0609
	08/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0421
MW-05 (40.403061 / -104.641188)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0338
	08/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0271

**TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
CARLSON 15-D PAD
PRODUCED WATER RELEASE
40.403155 / -104.641111
NE1/4 NE1/4 SEC.15 T5N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 331351
REMEDIAION # 24136**

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)	1- Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Barium (mg/L)
<i>ECMC Table 915-1 Regulatory Limits (µg/L)</i>		5	560	700	1400	140	67	67	--	--	--
<i>ECMC Narrative Groundwater Quality Standards* (µg/L)</i>		--	--	--	--	--	--	--	1.1*	3.6*	--
<i>CDPHE WQCC Regulation 41 Standards (mg/L)</i>		--	--	--	--	--	--	--	--	--	2.0
MW-06 (40.403149 / -104.641305)	11/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	02/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
	05/17/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0662
	08/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	0.0393

ECMC = Energy & Carbon Management Commission

NA - not analyzed

CDPHE WQCC = Colorado Department of Public Health and Environment, Water Quality Control Commission

µg/L - micrograms per liter

mg/L = milligrams per liter

Notes:

*ECMC regulatory limits in groundwater have not been established for 1 & 2-methylnaphthalene. ECMC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for Tapwater, as incorporated by reference in Rule 901.b, tables for Target Risk ("TR") = 1×10^{-6} and Target Hazard Quotient ("THQ")=0.1. The EPA RSL for Tapwater, and resultant narrative groundwater quality standards for 1 & 2-methylnaphthalene are 1.1 and 3.6 µg/L, respectively.

Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting and/or minimum detection limit.

Values presented in **BOLD** contained concentrations exceeding regulatory standards

**TABLE 3
GROUNDWATER ELEVATION SUMMARY
CARLSON 15-D PAD
PRODUCED WATER RELEASE
40.403155 / -104.641111
NE1/4 NE1/4 SEC.15 T5N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 331351
REMEDIAION # 24136**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.403152 / -104.641045)	11/23/22	99.69	7.79	91.90
	02/06/23		9.32	90.37
	05/17/23		7.36	92.33
	08/01/23		4.53	95.16
MW-02 (40.403218 / -104.641032)	11/23/22	99.62	7.85	91.77
	02/06/23		9.32	90.30
	05/17/23		7.43	92.19
	08/01/23		4.50	95.12
MW-03 (40.403177 / -104.641004)	11/23/22	99.58	7.83	91.75
	02/06/23		9.28	90.30
	05/17/23		7.41	92.17
	08/01/23		4.52	95.06
MW-04 (40.403063 / -104.641065)	11/23/22	99.58	7.62	91.96
	02/06/23		9.09	90.49
	05/17/23		7.17	92.41
	08/01/23		4.35	95.23
MW-05 (40.403061 / -104.641188)	11/23/22	99.65	7.64	92.01
	02/06/23		9.11	90.54
	05/17/23		7.08	92.57
	08/01/23		4.39	95.26
MW-06 (40.403149 / -104.641305)	11/23/22	100.00	7.69	92.31
	02/06/23		9.41	90.59
	05/17/23		7.51	92.49
	08/01/23		4.76	95.24
NOTES: TOC - top of casing				





ATTACHMENT A

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

August 08, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

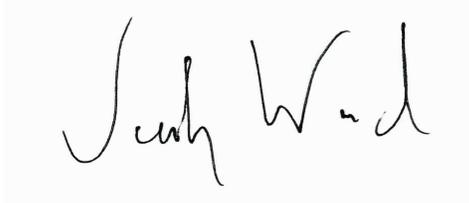
Wheat Ridge, CO 80033

RE: Civitas - Carlson 15-D PAD

Work Order # 2308023

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/23 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/08/23 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2308023-01	Water	08/01/23 13:25	08/01/23 15:10
MW-02	2308023-02	Water	08/01/23 13:10	08/01/23 15:10
MW-03	2308023-03	Water	08/01/23 12:55	08/01/23 15:10
MW-04	2308023-04	Water	08/01/23 12:35	08/01/23 15:10
MW-05	2308023-05	Water	08/01/23 12:20	08/01/23 15:10
MW-06	2308023-06	Water	08/01/23 12:00	08/01/23 15:10

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: <i>Eagle Environmental Consulting</i>		Send Data To:		Send Invoice To:	
Address: <i>8000 W 44th Ave</i>		Project Manager: <i>Marlin Eckert III</i>		Company: <i>Civitas</i>	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		E-Mail: <i>mce3@eagle-enviro.com</i>		Project Name/Location:	
Phone: <i>303-433-0479</i>		Project Name: <i>Carbon 15-D Pad</i>		AFE#:	
Sampler Name: <i>TZ</i>		Project Number: <i>—</i>		PO/Billing Codes:	
				Contact: <i>Jacob</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #			Other
1	MW-01	8-1-23	1325	2			X		X					Ⓢ MDLs needed
2	MV-02	↓	1310	↓			↓		↓					
3	MV-03	↓	1255	↓			↓		↓					
4	MW-04	↓	1235	↓			↓		↓					
5	MW-05	↓	1220	↓			↓		↓					
6	MW-06	↓	1200	↓			↓		↓					
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by: <i>Trevor Copple</i>	Date/Time: <i>8-1-23/1510</i>	Received by: <i>[Signature]</i>	Date/Time: <i>8/1/23 15:10</i>	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.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>4.10C</i>	Corrected Temperature	IR gun #: <i>02</i>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2308023

Client: Equi environmental consulting Client Project ID: Carson IS.D pad

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

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

Temp (°C) 4.100

Thermometer # 02

	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"/>	<u>on ice</u>
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 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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

GAC

Custodian Printed Name

8/11/23 15:10

Date/Time



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-01
2308023-01 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	ND	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		125 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		83.2 %		40-150		"	"	"	"	"

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 - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-02
2308023-02 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	1.41	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	0.921	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		115 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		82.8 %		40-150		"	"	"	"	

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 - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-03
2308023-03 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	ND	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		93.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		87.8 %		40-150		"	"	"	"	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-04
2308023-04 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	ND	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		112 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.2 %		40-150		"	"	"	"	

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 - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-05
2308023-05 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	ND	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		104 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		97.3 %		40-150		"	"	"	"	

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 - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

MW-06
2308023-06 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
1-Methylnaphthalene	ND	0.500	0.0555	ug/l	1	BGH0082	08/02/23	08/02/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	0.0555	"	"	"	"	"	"	"

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		120 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		95.3 %		40-150		"	"	"	"	

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 - Carlson 15-D PAD

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

Reported:
 08/08/23 11:19

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0082 - EPA 5030 Water MS

Blank (BGH0082-BLK1)

Prepared & Analyzed: 08/02/23

1-Methylnaphthalene	ND	0.500	ug/l								
2-Methylnaphthalene	ND	0.500	"								
Surrogate: 2-Methylnaphthalene-d10	2.20		"	2.00	110	40-150					
Surrogate: Fluoranthene-d10	2.01		"	2.00	101	40-150					

LCS (BGH0082-BS1)

Prepared & Analyzed: 08/02/23

1-Methylnaphthalene	1.98	0.500	ug/l	2.00	98.9	30-120					
2-Methylnaphthalene	1.84	0.500	"	2.00	92.1	0-200					
Surrogate: 2-Methylnaphthalene-d10	2.34		"	2.00	117	40-150					
Surrogate: Fluoranthene-d10	2.15		"	2.00	107	40-150					

LCS Dup (BGH0082-BSD1)

Prepared & Analyzed: 08/02/23

1-Methylnaphthalene	2.15	0.500	ug/l	2.00	108	30-120	8.59	30			
2-Methylnaphthalene	2.21	0.500	"	2.00	111	0-200	18.3	200			
Surrogate: 2-Methylnaphthalene-d10	2.33		"	2.00	117	40-150					
Surrogate: Fluoranthene-d10	2.10		"	2.00	105	40-150					

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 - Carlson 15-D PAD

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

Reported:
08/08/23 11:19

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

August 09, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

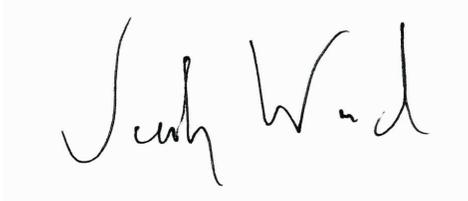
Wheat Ridge, CO 80033

RE: Civitas - Carlson 15-D PAD

Work Order # 2308024

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/23 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/09/23 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2308024-01	Water	08/01/23 13:25	08/01/23 15:10
MW-02	2308024-02	Water	08/01/23 13:10	08/01/23 15:10
MW-03	2308024-03	Water	08/01/23 12:55	08/01/23 15:10
MW-04	2308024-04	Water	08/01/23 12:35	08/01/23 15:10
MW-05	2308024-05	Water	08/01/23 12:20	08/01/23 15:10
MW-06	2308024-06	Water	08/01/23 12:00	08/01/23 15:10

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
2308024	

Client: <i>Eagle Environmental Consulting</i>		Send Data To:		Send Invoice To:	
Address: <i>8000 W 44th Ave</i>		Project Manager: <i>Martha Eckert III</i>		Company: <i>Civitas</i>	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		E-Mail: <i>mcc3@eagle-enviro.com</i>		Project Name/Location:	
Phone: <i>303-433-0479</i>		Project Name: <i>Carlson 15-D Pad</i>		AFE#:	
Sampler Name: <i>TL</i>		Project Number: <i>—</i>		PO/Billing Codes:	
				Contact: <i>Jacob</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other		
1	MW-01	8-1-23	1325	1			X		X					① MDLs needed
2	MW-02	↓	1310	↓			↓		↓					
3	MW-03	↓	1255	↓			↓		↓					
4	MW-04	↓	1235	↓			↓		↓					
5	MW-05	↓	1220	↓			↓		↓					
6	MW-06	↓	1200	↓			↓		↓					
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by: <i>Trevor Cople</i>	Date/Time: <i>8-1-23/1510</i>	Received by: <i>[Signature]</i>	Date/Time: <i>8/1/23 15:10</i>	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	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <i>12.5°C</i>	Corrected Temperature: _____	IR gun #: <i>12</i>	HNO3 lot #: _____			

S₂

Sample Receipt Checklist

S2 Work Order# 2308024

Client: Eagle Environmental Consulting Client Project ID: Carson IS-D p.1

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

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

Temp (°C) 12.3°C Thermometer # 02

	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"/>	<u>on ice</u>
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 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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

GAL

Custodian Printed Name

15:10 8/1/23

Date/Time



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-01
2308024-01 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	55.3	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

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 - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-02
2308024-02 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	51.3	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-03
2308024-03 (Water)

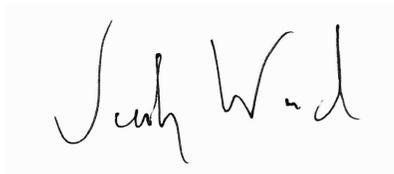
Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	46.6	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

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 - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-04
2308024-04 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	42.1	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-05
2308024-05 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	27.1	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

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 - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

MW-06
2308024-06 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Barium	39.3	1.00	0.633	ug/l	1	BGH0189	08/04/23	08/07/23	EPA 200.8	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/09/23 15:41

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Batch BGH0189 - EPA 200.8

Blank (BGH0189-BLK1)

Prepared: 08/04/23 Analyzed: 08/07/23

Barium ND 1.00 ug/l

LCS (BGH0189-BS1)

Prepared: 08/04/23 Analyzed: 08/07/23

Barium 532 1.00 ug/l 500 106 85-115

Duplicate (BGH0189-DUP1)

Source: 2308004-01

Prepared: 08/04/23 Analyzed: 08/07/23

Barium 53.6 1.00 ug/l 52.1 2.93 20

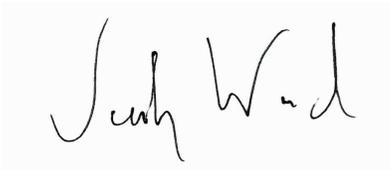
Matrix Spike (BGH0189-MS1)

Source: 2308004-01

Prepared: 08/04/23 Analyzed: 08/07/23

Barium 542 1.00 ug/l 500 52.1 98.0 70-130

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/09/23 15:41

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

August 08, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

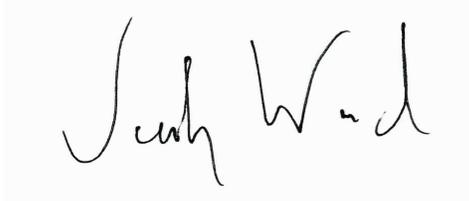
Wheat Ridge, CO 80033

RE: Civitas - Carlson 15-D PAD

Work Order # 2308025

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/23 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/08/23 12:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2308025-01	Water	08/01/23 13:25	08/01/23 15:10
MW-02	2308025-02	Water	08/01/23 13:10	08/01/23 15:10
MW-03	2308025-03	Water	08/01/23 12:55	08/01/23 15:10
MW-04	2308025-04	Water	08/01/23 12:35	08/01/23 15:10
MW-05	2308025-05	Water	08/01/23 12:20	08/01/23 15:10
MW-06	2308025-06	Water	08/01/23 12:00	08/01/23 15:10

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
2308025	

Client: <i>Eagle Environmental Consultancy</i>		Send Data To: Project Manager: <i>Martin Eckert III</i>		Send Invoice To: Company: <i>Civitas</i>	
Address: <i>8000 W 44th Ave</i>		E-Mail: <i>mcc3@eagle-enviro.com</i>		Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		Project Name: <i>Carlson 15-D Pad</i>		AFE#:	
Phone: <i>303-433-0479</i>		Project Number: _____		PO/Billing Codes:	
Sampler Name: <i>TC</i>				Contact: <i>Jacob</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other				
1	MW-01	8-1-23	1325	1			X		X				X	X	X	Ⓢ MDLs needed
2	MW-02	↓	1310	↓			↓		↓				↓	↓	↓	
3	MW-03	↓	1255	↓			↓		↓				↓	↓	↓	
4	MW-04	↓	1235	↓			↓		↓				↓	↓	↓	
5	MW-05	↓	1220	↓			↓		↓				↓	↓	↓	
6	MW-06	↓	1200	↓			↓		↓				↓	↓	↓	
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <i>Trevor Coppel</i>	Date/Time: <i>8-1-23/1510</i>	Received by: <i>[Signature]</i>	Date/Time: <i>8/1/23 15:10</i>	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.	
Temperature Upon Receipt: <i>12.30C</i>	Corrected Temperature	IR gun #: <i>02</i>	HNO3 lot #:	Standard	X	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2308025

Client: Eagle Environmental Consulting Client Project ID: Carlson LSP Pad

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

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

Temp (°C) 12.3 Thermometer # 02

	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"/>	<i>same</i>
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 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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

GAV
Custodian Printed Name

8/1/23 15:10
Date/Time



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-01
2308025-01 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	78.4	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	356	60.0	1.41	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	834	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	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: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-02
2308025-02 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	75.6	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	341	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	912	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	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: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-03
2308025-03 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	72.2	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	497	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1010	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	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: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-04
2308025-04 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	86.0	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	450	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1060	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	SM2540C	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-05
2308025-05 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	71.0	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	325	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	821	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	SM2540C	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

MW-06
2308025-06 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	78.4	12.0	0.290	mg/L	200	BGH0078	08/02/23	08/02/23	EPA 300.0	
Sulfate	355	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	884	10.0	10.0	mg/L	1	BGH0079	08/02/23	08/02/23	SM2540C	

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BGH0078 - General Preparation

Blank (BGH0078-BLK1)

Prepared & Analyzed: 08/02/23

Chloride	ND	0.0600	mg/L							
Sulfate	0.162	0.300	"							J

LCS (BGH0078-BS1)

Prepared & Analyzed: 08/02/23

Chloride	2.80	0.0600	mg/L	3.00		93.2	90-110			
Sulfate	13.6	0.300	"	15.0		91.0	90-110			

Duplicate (BGH0078-DUP1)

Source: 2308025-01

Prepared & Analyzed: 08/02/23

Chloride	72.2	12.0	mg/L		78.4			8.23	20	
Sulfate	350	60.0	"		356			1.70	20	

Matrix Spike (BGH0078-MS1)

Source: 2308025-01

Prepared & Analyzed: 08/02/23

Chloride	622	12.0	mg/L	600	78.4	90.6	80-120			
Sulfate	3010	60.0	"	3000	356	88.6	80-120			

Summit Scientific

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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:15

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGH0079 - General Preparation

Blank (BGH0079-BLK1)

Prepared & Analyzed: 08/02/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGH0079-DUP1)

Source: 2308025-01

Prepared & Analyzed: 08/02/23

Total Dissolved Solids 814 10.0 mg/L 834 2.49 20

Summit Scientific



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/08/23 12:15

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration

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

August 08, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

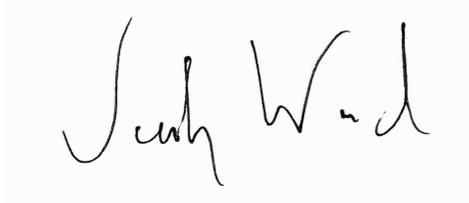
Wheat Ridge, CO 80033

RE: Civitas - Carlson 15-D PAD

Work Order # 2308026

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/23 15:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
08/08/23 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2308026-01	Water	08/01/23 13:25	08/01/23 15:12
MW-02	2308026-02	Water	08/01/23 13:10	08/01/23 15:12
MW-03	2308026-03	Water	08/01/23 12:55	08/01/23 15:12
MW-04	2308026-04	Water	08/01/23 12:35	08/01/23 15:12
MW-05	2308026-05	Water	08/01/23 12:20	08/01/23 15:12
MW-06	2308026-06	Water	08/01/23 12:00	08/01/23 15:12

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.

S₂

Sample Receipt Checklist

S2 Work Order# 230802b

Client: Eagle environmental consulting Client Project ID: Carison 15-D pad

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

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

Temp (°C) 30.6 Thermometer # 02

	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"/>	<u>on ice</u>
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 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽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 checked="" type="checkbox"/>	<u>HCl</u>
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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

GAC
Custodian Printed Name

8/1/23 15:12
Date/Time



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

Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-01
2308026-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	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: **08/01/23 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		72.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %		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 - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-02
2308026-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	5.1	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.2	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **08/01/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		70.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %		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 - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-03
2308026-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	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: **08/01/23 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %		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 - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-04
2308026-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	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: **08/01/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		74.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		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 - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-05
2308026-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	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: **08/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %		21-167		"	"	"	"	

Summit Scientific

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Project: Civitas - Carlson 15-D PAD

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

Reported:
 08/08/23 12:18

MW-06
2308026-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGH0109	08/02/23	08/02/23	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: **08/01/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %		21-167		"	"	"	"	

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Reported:
 08/08/23 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0109 - EPA 5030 Water MS

Blank (BGH0109-BLK1)

Prepared & Analyzed: 08/02/23

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.65		"	13.3		72.4		23-173			
<i>Surrogate: Toluene-d8</i>	12.5		"	13.3		93.7		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.6		"	13.3		94.4		21-167			

LCS (BGH0109-BS1)

Prepared & Analyzed: 08/02/23

Benzene	36.2	1.0	ug/l	33.3		109		51-132			
Toluene	35.0	1.0	"	33.3		105		51-138			
Ethylbenzene	43.8	1.0	"	33.3		131		58-146			
m,p-Xylene	84.9	2.0	"	66.7		127		57-144			
o-Xylene	35.5	1.0	"	33.3		107		53-146			
Naphthalene	31.4	1.0	"	33.3		94.3		70-130			
1,2,4-Trimethylbenzene	37.9	1.0	"	33.3		114		70-130			
1,3,5-Trimethylbenzene	38.9	1.0	"	33.3		117		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.66		"	13.3		72.5		23-173			
<i>Surrogate: Toluene-d8</i>	12.7		"	13.3		95.2		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.5		"	13.3		86.6		21-167			

Matrix Spike (BGH0109-MS1)

Source: 2308026-01

Prepared & Analyzed: 08/02/23

Benzene	38.0	1.0	ug/l	33.3	ND	114		34-141			
Toluene	36.9	1.0	"	33.3	ND	111		27-151			
Ethylbenzene	44.8	1.0	"	33.3	ND	135		29-160			
m,p-Xylene	86.8	2.0	"	66.7	ND	130		20-166			
o-Xylene	36.2	1.0	"	33.3	ND	109		33-159			
Naphthalene	33.6	1.0	"	33.3	ND	101		70-130			
1,2,4-Trimethylbenzene	38.6	1.0	"	33.3	ND	116		70-130			
1,3,5-Trimethylbenzene	39.6	1.0	"	33.3	ND	119		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.46		"	13.3		71.0		23-173			
<i>Surrogate: Toluene-d8</i>	12.8		"	13.3		95.8		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.5		"	13.3		86.2		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	Limits	RPD	Limit	

Batch BGH0109 - EPA 5030 Water MS

Matrix Spike Dup (BGH0109-MSD1)	Source: 2308026-01			Prepared & Analyzed: 08/02/23						
Benzene	39.6	1.0	ug/l	33.3	ND	119	34-141	4.02	30	
Toluene	38.6	1.0	"	33.3	ND	116	27-151	4.61	30	
Ethylbenzene	36.2	1.0	"	33.3	ND	109	29-160	21.4	30	
m,p-Xylene	72.9	2.0	"	66.7	ND	109	20-166	17.4	30	
o-Xylene	31.0	1.0	"	33.3	ND	93.1	33-159	15.5	30	
Naphthalene	29.9	1.0	"	33.3	ND	89.7	70-130	11.6	30	
1,2,4-Trimethylbenzene	32.4	1.0	"	33.3	ND	97.3	70-130	17.4	30	
1,3,5-Trimethylbenzene	32.5	1.0	"	33.3	ND	97.4	70-130	19.8	30	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	14.7		"	13.3		110	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	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