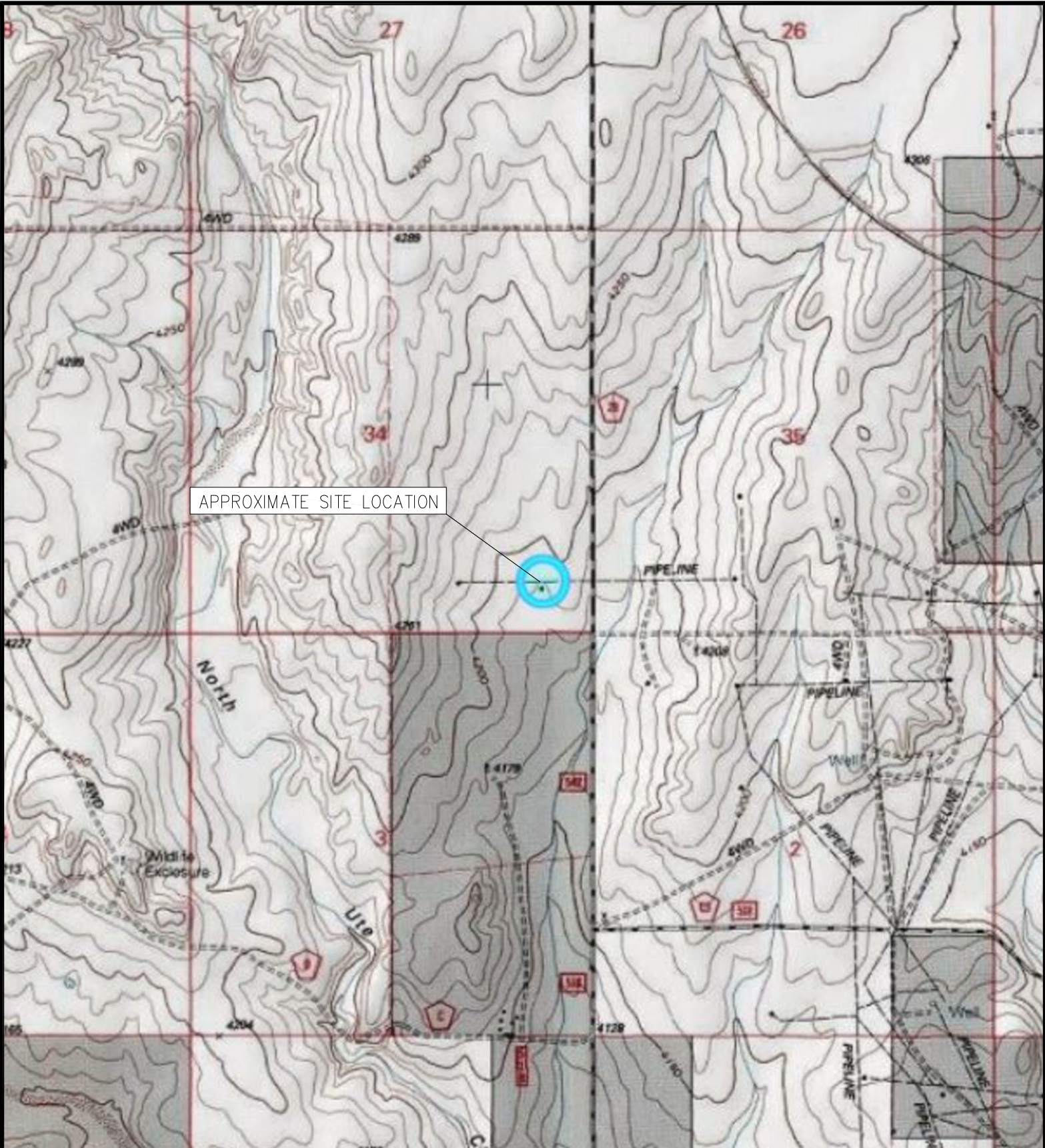




FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Wellhead Soil Sample Location Map



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 SE CAMPO UNIT 101
 DECOMMISSION ASSESSMENT
 37.034547, -102.581359
 SE1/4 SE1/4 SEC.34 T34S R46W 6PM
 BACA COUNTY, COLORADO
 API 05-009-06440
 REMEDIATION # 34358



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC





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

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 CAMPO, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

-  APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
-  APPROXIMATE LOCATION OF SOIL FIELD SCREENING
-  APPROXIMATE LOCATION OF SOIL SAMPLE SUBMITTED FOR LABORATORY ANALYSIS
-  APPROXIMATE LOCATION OF BACKGROUND SOIL SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY OCTOBER 2016

WELLHEAD SOIL SAMPLE LOCATION MAP
 SE CAMPO UNIT 101
 DECOMMISSION ASSESSMENT
 37.034547, -102.581359
 SE1/4 SE1/4 SEC.34 T34S R46W 6PM
 BACA COUNTY, COLORADO
 API 05-009-06440
 REMEDIATION # 34358

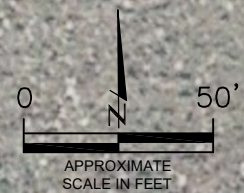


FIGURE NO.
2
DRAWN BY:
DAC



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



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SE CAMPO UNIT 101
DECOMMISSION ASSESSMENT
37.034547, -102.581359
SE1/4 SE1/4 SEC.34 T34S R46W 6PM
BACA COUNTY, COLORADO
API 05-009-06440
REMEDIACTION # 34358

Sample Location (Latitude/Longitude)	Date	Approximate Depth	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 3' (37.034546, -102.581380)	06/26/24	3'	0.7	N
WH-SS-02 @ 3' (37.034539, -102.581366)	06/26/24	3'	0.8	N
WH-SS-03 @ 3' (37.034531, -102.581376)	06/26/24	3'	0.9	N
WH-SS-04 @ 3' (37.034540, -102.581390)	06/26/24	3'	0.6	N
WH-FS-01 @ 4' (37.034540, -102.581378)	06/26/24	4'	0.9	Y
BG-01 @ 0.5' (37.034760, -102.581338)	06/26/24	0.5'	0.6	Y
BG-01 @ 3' (37.034760, -102.581338)	06/26/24	3'	0.7	Y
BG-01 @ 4' (37.034760, -102.581338)	06/26/24	4'	0.3	Y
BG-02 @ 0.5' (37.034214, -102.581414)	06/26/24	0.5'	0.1	Y
BG-03 @ 3' (37.034214, -102.581414)	06/26/24	3'	0.6	Y
BG-04 @ 4' (37.034214, -102.581414)	06/26/24	4'	0.3	Y

(Y/N) = Yes or No

ppm-v = parts per million by volume

PID = photoionization detector



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SE CAMPO UNIT 101
DECOMMISSION ASSESSMENT
37.034547, -102.581359
SE1/4 SE1/4 SEC.34 T34S R46W 6PM
BACA COUNTY, COLORADO
API 05-009-06440
REMEDIATION # 34358

Sample Location (Latitude/Longitude)	Date	Approximate Depth	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-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR	
CECMC Table 915-1 Residential Soil Screening Levels				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6	
WH-FS-01 @ 4' (37.034540, -102.581378)	06/26/24	4'	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	99.2	433	<0.00200	<0.00200	0.148	0.589	8.85	7.94	
Background																	
BG-01 @ 0.5' (37.034760, -102.581338)	06/26/24	0.5'	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.221	0.207	8.32	0.0528	
BG-01 @ 3' (37.034760, -102.581338)	06/26/24	3'	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.111	0.282	8.30	0.384	
BG-01 @ 4' (37.034760, -102.581338)	06/26/24	4'	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.109	0.360	8.39	0.455	
BG-02 @ 0.5' (37.034214, -102.581414)	06/26/24	0.5'	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.588	0.999	8.23	0.0922	
BG-03 @ 3' (37.034214, -102.581414)	06/26/24	3'	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.100	0.152	8.17	0.0983	
BG-04 @ 4' (37.034214, -102.581414)	06/26/24	4'	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.219	0.236	8.32	0.151	
CECMC = Colorado Energy & Carbon Management Commission				mg/kg = milligrams per kilogram				mg/L = milligrams per liter				mmhos/cm = millimhos per centimeter					
SAR = Sodium Adsorption Ratio				PID = Photoionization Detector				ppm-v = parts per million by volume				NA = Not Analyzed					
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				1,2,4-TMB = 1,2,4-Trimethylbenzene													
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				1,3,5-TMB = 1,3,5-Trimethylbenzene													
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics																	
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.																	
Values presented in BOLD contained concentrations exceeding CECMC Table 915-1 Residential Soil Screening Level Limits but within Background results.																	
Values presented in BOLD contained concentrations exceeding CECMC Table 915-1 Residential Soil Screening Level Limits and Background results where applicable.																	

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
SE CAMPO UNIT 101
DECOMMISSION ASSESSMENT
37.034547, -102.581359
SE1/4 SE1/4 SEC.34 T34S R46W 6PM
BACA COUNTY, COLORADO
API 05-009-06440
REMEDATION # 34358

Sample Location (Latitude/Longitude)	Date	Approximate Depth	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)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
CECMC Table 915-1 Residential Soil Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
WH-FS-01 @ 4' (37.034540, -102.581378)	06/26/24	4'	0.9	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.020
CECMC = Colorado Energy & Carbon Management Commission				PID = Photoionization Detector				ppm-v = parts per million by volume				mg/kg = milligrams per kilogram						
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory minimum detection levels.																		

TABLE 4
METALS ANALYTICAL RESULTS SUMMARY
SE CAMPO UNIT 101
DECOMMISSION ASSESSMENT
37.034547, -102.581359
SE1/4 SE1/4 SEC.34 T34S R46W 6PM
BACA COUNTY, COLORADO
API 05-009-06440
REMEDIATION # 34358

Sample Location (Latitude/Longitude)	Date	Approximate Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
CECMC Table 915-1 Residential Soil Screening Levels			0.68**	15,000	71	0.3*	3,100	400	1,500	390	390	23,000
Local Cleanup Level			5.38**	-	-	-	-	-	-	-	-	-
WH-FS-01 @ 4' (37.034540, -102.581378)	06/26/24	4'	2.01**	141	0.109	<0.158*	<8.90	26.5	6.78	<0.231	<0.0890	32.9
Background												
BG-01 @ 0.5' (37.034760, -102.581338)	06/26/24	0.5'	2.30**	352	0.118	0.278*	<8.83	5.17	12.3	<0.230	<0.0883	<32.7
BG-01 @ 3' (37.034760, -102.581338)	06/26/24	3'	3.02**	154	0.133	0.368*	<8.74	5.85	10.8	<0.227	<0.0874	<32.4
BG-01 @ 4' (37.034760, -102.581338)	06/26/24	4'	4.31**	204	0.204	<0.189*	13.5	8.21	14.8	<0.246	<0.0947	46.5
BG-02 @ 0.5' (37.034214, -102.581414)	06/26/24	0.5'	3.08**	236	0.151	<0.207*	<8.93	5.94	10.1	<0.232	<0.0893	<33.0
BG-03 @ 3' (37.034214, -102.581414)	06/26/24	3'	1.50**	40.4	<0.0955	0.182*	<9.55	3.29	3.87	<0.248	<0.0955	<35.3
BG-04 @ 4' (37.034214, -102.581414)	06/26/24	4'	2.64**	91.5	<0.0897	0.376*	<8.97	4.85	7.92	<0.233	<0.0897	<33.2

CECMC = Colorado Energy & Carbon Management Commission

mg/kg = milligrams per kilogram

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

Values presented in **BOLD** contained concentrations exceeding CECMC Table 915-1 Residential Soil Screening Level Limits but within Background results

*Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

**Arsenic is naturally occurring in Colorado. Local Cleanup Level (5.38 mg/kg) is 1.25 x Background (4.31 mg/kg)





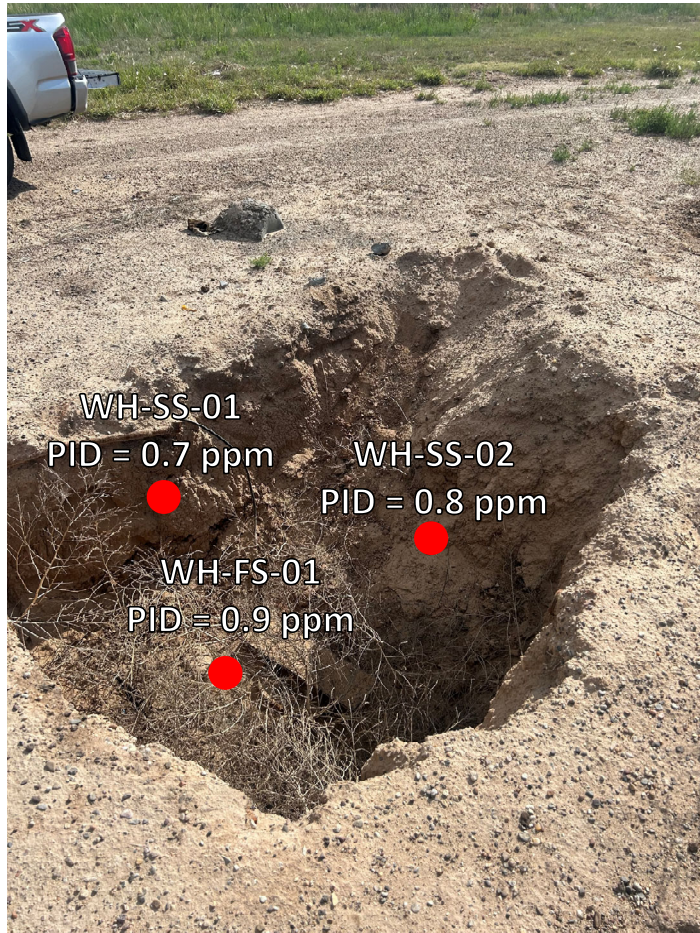
ATTACHMENT A

Photo Log

SE CAMPO UNIT 101
DECOMMISSION ASSESSMENT
37.034547, -102.581359
SE1/4 SE1/4 SEC.34 T34S R46W 6PM
BACA COUNTY, COLORADO
API 05-009-06440
REMEDICATION # 34358

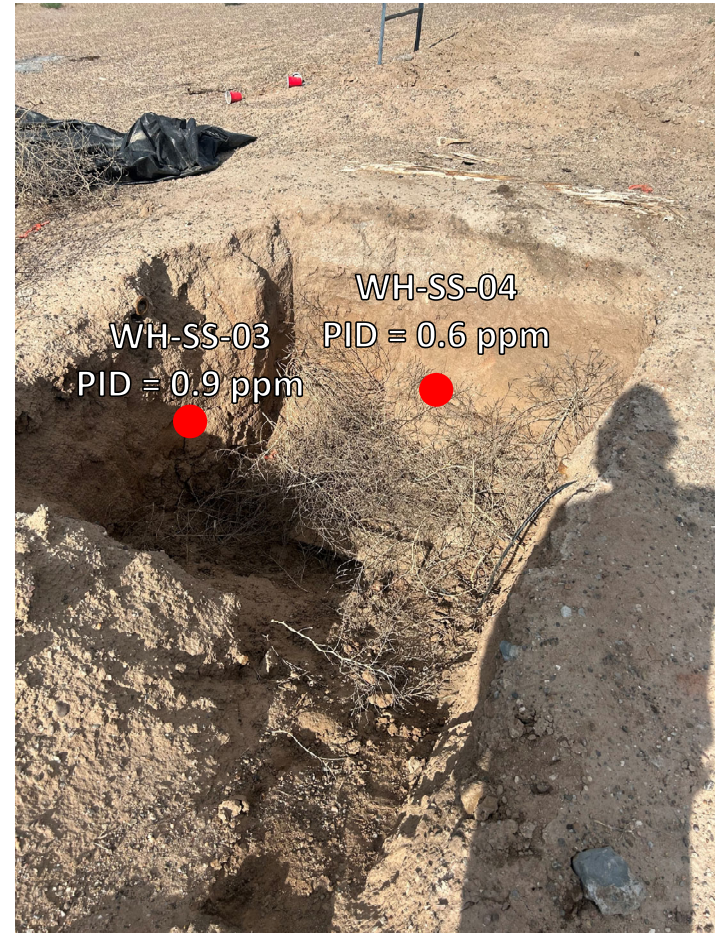


Wellhead Excavation – 7/10/24



Looking northeast

No petroleum hydrocarbon staining or odor observed



Looking southwest

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Closure Checklist



EAGLE
ENVIRONMENTAL
CONSULTING, LLC

8000 W 44th Ave
Wheat Ridge, Colorado 80033
303-433-0479

JOB SE Campo Unit 101 WHPFL SHEET _____ OF _____
DESCRIPTION _____
COMPLETED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____

PID-

0800 Eagle on Site

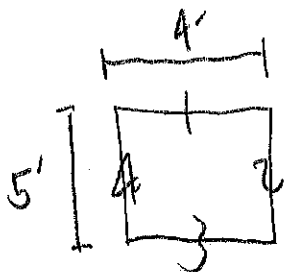
77' A Sunny
Site in good con

0815 OSA Complete

Clay SAND 20% clay

Name/Depth	Time	LOUW	1 S/0?	1 106?		
WH-SS-01 @ 3'	0835	0.7	N/N	N	37.0345517, -102.5813761	
WH-SS-02 @ 3'	0837	0.8	↓	↓	37.0345524, -102.581355	
WH-SS-03 @ 3'	0839	0.9			37.034523, -102.581362	
WH-SS-04 @ 3'	0841	0.6			37.034537, -102.5814	
WH-FS-01 @ 4'	0843	0.9			37.034543, -102.581378	
BG-01 @ 0.5'	0849	0.6			N/N	37.034675, -102.581336
BG-01 @ 3'	0900	0.7	↓	↓	↓	
BG-01 @ 4'	0913	0.3				
BG-02 @ 0.5'	0915	0.1				37.034367, -102.581498
BG-02 @ 3'	0924	0.6				
BG-02 @ 4'	0928	0.3				

XBG-01



1000 Eagle off site

XBG-02



ATTACHMENT C

Laboratory Analytical Reports



July 29, 2024

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - SECU 101 BG

Project Number - [none]

Attached are your analytical results for SECU 101 BG received by Origins Laboratory, Inc. June 27, 2024. This project is associated with Origins project number Y406820-01.

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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-01@0.5'	Y406820-01	Soil	June 26, 2024 8:49	06/27/2024 15:13
BG-01@3'	Y406820-02	Soil	June 26, 2024 9:00	06/27/2024 15:13
BG-01@4'	Y406820-03	Soil	June 26, 2024 9:13	06/27/2024 15:13
BG-02@0.5'	Y406820-04	Soil	June 26, 2024 9:15	06/27/2024 15:13
BG-02@3'	Y406820-05	Soil	June 26, 2024 9:24	06/27/2024 15:13
BG-02@4'	Y406820-06	Soil	June 26, 2024 9:28	06/27/2024 15:13

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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

ORIGINS

LABORATORY, INC

ORIGINS WORK ORDER #

4406820

Page 1 of 1

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

Project Manager: David Castro
 Project Name: SECU 101 BG
 Key: VI=Water


Telephone Number: 303-831-1998
 Email Address: dcastro@eagle-env.com

Project Number: 4406820
 Collected By: SL
 Invoice Billing Info: SL
 Key: GW=Groundwater
SW=Surface Water
WW=Waste Water
 L=Liquid

S=Soil | SO=Solid | G=Oil | A=Air | G=Gas | U=Impres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis					Comments
						As	DP	SP	PH	915-1 metals	
1	SE-010N5	06/14/14	0814	2	UHP	X	X	X	X	X	
2	SE-010N5	06/14/14	0800	1	UHP	X	X	X	X	X	
3	SE-010N5	06/14/14	0813	1	UHP	X	X	X	X	X	
4	SE-020N5	06/15/14	0815	1	UHP	X	X	X	X	X	
5	SE-020N5	06/24/14	0824	1	UHP	X	X	X	X	X	
6	SE-020N5	06/24/14	0828	1	UHP	X	X	X	X	X	
7	SE-020N5	06/24/14	0828	1	UHP	X	X	X	X	X	
8											
9											
10											

Relinquished By: David Castro Date: 06/24/14 Time: 15:13
 Received By: SL Date: 6/27/14 Time: 15:13
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Standard
 Temp Received: 4.3 Received On Ice? Yes No

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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406820

Client: Eagle
 Client Project ID: SECU 101 BG

Checklist Completed by: EHO
 Date/time completed: 6/27/24

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 4.3 °C

1 °C

1 °C

1 °C

Thermometer ID: 7005

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

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

Reviewed by (Project Manager) [Signature]

7/1/24
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@0.5'

6/26/2024 8:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y406820-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.221		0.101	mg/L	1	B4G0108	07/01/2024	07/02/2024	
-------	-------	--	-------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	0.847		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4G0318	07/03/2024	07/05/2024	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.0528		0.0100	SAR	1	B4G0313	07/03/2024	07/08/2024	
-----	--------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.207		0.00500	mmhos/cm	1	B4G0318	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.30		0.256	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	352		8.83	"	"	"	"	"	
Cadmium	0.118		0.0883	"	"	"	"	"	
Copper	ND		8.83	"	"	"	"	"	

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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@0.5'

6/26/2024 8:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y406820-01 (Soil)

Table 915 metals by EPA 6020B

Lead	5.17		0.883	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Nickel	12.3		0.883	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.278	0.164	0.410	mg/kg dry	1	2642896	07/18/2024	07/25/2024	J
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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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@3'

6/26/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.111		0.0992	mg/L	1	B4G0108	07/01/2024	07/02/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.68		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B4G0318	07/03/2024	07/05/2024	
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SAR by 20B Saturated Paste

SAR	0.384		0.0100	SAR	1	B4G0313	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.282		0.00500	mmhos/cm	1	B4G0318	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.02		0.254	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	154		8.74	"	"	"	"	"	
Cadmium	0.133		0.0874	"	"	"	"	"	
Copper	ND		8.74	"	"	"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@3'

6/26/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-02 (Soil)

Table 915 metals by EPA 6020B

Lead	5.85		0.874	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Nickel	10.8		0.874	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0874	"	"	"	"	"	
Zinc	ND		32.4	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	0.368	0.187	0.467	mg/kg dry	1	2643809	07/26/2024	07/26/2024	J
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@4'

6/26/2024 9:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.109		0.0986	mg/L	1	B4G0108	07/01/2024	07/02/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.49		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.577		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B4G0319	07/03/2024	07/05/2024	
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SAR by 20B Saturated Paste

SAR	0.455		0.0100	SAR	1	B4G0314	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.360		0.00500	mmhos/cm	1	B4G0319	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.31		0.275	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	204		9.47	"	"	"	"	"	
Cadmium	0.204		0.0947	"	"	"	"	"	
Copper	13.5		9.47	"	"	"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-01@4'

6/26/2024 9:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-03 (Soil)

Table 915 metals by EPA 6020B

Lead	8.21		0.947	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Nickel	14.8		0.947	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0947	"	"	"	"	"	
Zinc	46.5		35.0	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	ND	0.189	0.472	mg/kg dry	1	2643809	07/26/2024	07/26/2024	U
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@0.5'

6/26/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.588		0.100	mg/L	1	B4G0108	07/01/2024	07/02/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.76		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	1.03		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4G0319	07/03/2024	07/05/2024	
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SAR by 20B Saturated Paste

SAR	0.0922		0.0100	SAR	1	B4G0314	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.999		0.00500	mmhos/cm	1	B4G0319	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.08		0.259	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	236		8.93	"	"	"	"	"	
Cadmium	0.151		0.0893	"	"	"	"	"	
Copper	ND		8.93	"	"	"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@0.5'

6/26/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-04 (Soil)

Table 915 metals by EPA 6020B

Lead	5.94		0.893	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Nickel	10.1		0.893	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0893	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	ND	0.207	0.518	mg/kg dry	1	2643809	07/26/2024	07/26/2024	U
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@3'

6/26/2024 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.100		0.0999	mg/L	1	B4G0108	07/01/2024	07/02/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.931		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B4G0319	07/03/2024	07/05/2024	
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SAR by 20B Saturated Paste

SAR	0.0983		0.0100	SAR	1	B4G0314	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.152		0.00500	mmhos/cm	1	B4G0319	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.50		0.277	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	40.4		9.55	"	"	"	"	"	
Cadmium	ND		0.0955	"	"	"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@3'

6/26/2024 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.55	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Lead	3.29		0.955	"	"	"	"	"	
Nickel	3.87		0.955	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	
Silver	ND		0.0955	"	"	"	"	"	
Zinc	ND		35.3	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	0.182	0.159	0.396	mg/kg dry	1	2643809	07/26/2024	07/26/2024	J
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@4'

6/26/2024 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.219		0.100	mg/L	1	B4G0108	07/01/2024	07/02/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.60		0.499	meq/L	10	[CALC]	07/03/2024	07/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4G0319	07/03/2024	07/05/2024	
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SAR by 20B Saturated Paste

SAR	0.151		0.0100	SAR	1	B4G0314	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.236		0.00500	mmhos/cm	1	B4G0319	07/03/2024	07/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.64		0.260	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Barium	91.5		8.97	"	"	"	"	"	
Cadmium	ND		0.0897	"	"	"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

BG-02@4'

6/26/2024 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406820-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.97	mg/kg	10	B4F2820	06/28/2024	07/03/2024	
Lead	4.85		0.897	"	"	"	"	"	
Nickel	7.92		0.897	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	ND		33.2	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	0.376	0.191	0.477	mg/kg dry	1	2643809	07/26/2024	07/26/2024	J
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2820 - EPA 3050B

Blank (B4F2820-BLK1)

Prepared: 06/28/2024 Analyzed: 07/03/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4F2820-BS1)

Prepared: 06/28/2024 Analyzed: 07/03/2024

Arsenic	5.79	0.290	mg/kg	5.00		116	80-120			
Barium	572	10.0	"	500		114	80-120			
Cadmium	5.72	0.100	"	5.00		114	80-120			
Copper	59.9	10.0	"	50.0		120	80-120			
Lead	5.42	1.00	"	5.00		108	80-120			
Nickel	5.88	1.00	"	5.00		118	80-120			
Selenium	5.96	0.260	"	5.00		119	80-120			
Silver	5.52	0.100	"	5.00		110	80-120			
Zinc	58.9	37.0	"	50.0		118	80-120			

Matrix Spike (B4F2820-MS1)

Source: Y406814-01

Prepared: 06/28/2024 Analyzed: 07/03/2024

Arsenic	12.0	0.254	mg/kg	4.37	7.51	102	75-125			
Barium	523	8.75	"	437	19.2	115	75-125			
Cadmium	5.10	0.0875	"	4.37	0.108	114	75-125			
Copper	54.8	8.75	"	43.7	4.17	116	75-125			
Lead	8.13	0.875	"	4.37	4.13	91.5	75-125			

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2820 - EPA 3050B

Matrix Spike (B4F2820-MS1)

Source: Y406814-01

Prepared: 06/28/2024 Analyzed: 07/03/2024

Nickel	8.79	0.875	mg/kg	4.37	4.05	108	75-125			
Selenium	5.02	0.227	"	4.37	0.227	110	75-125			
Silver	4.76	0.0875	"	4.37	0.0575	108	75-125			
Zinc	78.3	32.4	"	43.7	30.2	110	75-125			

Matrix Spike Dup (B4F2820-MSD1)

Source: Y406814-01

Prepared: 06/28/2024 Analyzed: 07/03/2024

Arsenic	14.0	0.278	mg/kg	4.78	7.51	136	75-125	15.9	20	QM-07
Barium	525	9.57	"	478	19.2	106	75-125	0.362	20	
Cadmium	5.13	0.0957	"	4.78	0.108	105	75-125	0.553	20	
Copper	56.3	9.57	"	47.8	4.17	109	75-125	2.65	20	
Lead	9.17	0.957	"	4.78	4.13	105	75-125	12.1	20	
Nickel	10.0	0.957	"	4.78	4.05	125	75-125	13.3	20	
Selenium	5.12	0.249	"	4.78	0.227	102	75-125	1.91	20	
Silver	4.92	0.0957	"	4.78	0.0575	102	75-125	3.14	20	
Zinc	78.4	35.4	"	47.8	30.2	101	75-125	0.214	20	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G0108 - DTPA Sorbitol Preparation										
Blank (B4G0108-BLK1)					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G0108-DUP1)					Source: Y406820-01 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Boron	0.232	0.0985	mg/L		0.221			4.83	50	
Batch B4G0313 - Saturated Paste Metals										
Blank (B4G0313-BLK1)					Prepared: 07/03/2024 Analyzed: 07/08/2024					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B4G0313-DUP1)					Source: Y406820-01 Prepared: 07/03/2024 Analyzed: 07/08/2024					
SAR	ND	0.0100	SAR		0.0528				200	
Calcium PPM	16.6	10.0	mg/L		17.0			2.14	50	
Magnesium PPM	2.16	10.0	"		2.20			1.83	50	
Sodium PPM	1.07	10.0	"		0.870			20.6	50	
Batch B4G0314 - Saturated Paste Metals										
Blank (B4G0314-BLK1)					Prepared: 07/03/2024 Analyzed: 07/08/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0314 - Saturated Paste Metals

Duplicate (B4G0314-DUP1)	Source: Y406820-03			Prepared: 07/03/2024 Analyzed: 07/08/2024						
SAR	ND	0.0100	SAR	0.455					200	
Calcium PPM	44.9	10.0	mg/L	50.0				10.7	50	
Magnesium PPM	7.85	10.0	"	8.67				9.93	50	
Sodium PPM	12.8	10.0	"	13.3				3.84	50	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0318 - Saturated Paste pH/EC

Blank (B4G0318-BLK1)

Prepared: 07/03/2024 Analyzed: 07/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G0318-DUP1)

Source: Y406820-01

Prepared: 07/03/2024 Analyzed: 07/05/2024

pH 8.36 pH Units 8.32 0.480 25

Specific Conductance (EC) 0.207 0.00500 mmhos/cm 0.207 0.193 25

Batch B4G0319 - Saturated Paste pH/EC

Blank (B4G0319-BLK1)

Prepared: 07/03/2024 Analyzed: 07/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G0319-DUP1)

Source: Y406820-03

Prepared: 07/03/2024 Analyzed: 07/05/2024

pH 8.50 pH Units 8.39 1.30 25

Specific Conductance (EC) 0.347 0.00500 mmhos/cm 0.360 3.54 25

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Total Metals 7196 A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2643809 - SW846 3060A										
BLANK (1205795528-BLK)					Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	ND	0.375	mg/kg				-			U
LCS (1205795529-BKS)					Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	3.84	0.383	mg/kg	3.83		100	80-120			
DUP (1205795530 D)					Source: 673825001 Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	0.288	0.365	mg/kg dry		0.291		0-50	1.11	50	J
MS (1205795531 S)					Source: 673825001 Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	3.51	0.378	mg/kg dry	3.78	0.291	85	75-125			
DUP (1205795532 D)					Source: 674961001 Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	ND	0.406	mg/kg dry		<0.163		0-50	N/A	50	U
MS (1205795533 S)					Source: 674961001 Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	3.07	0.403	mg/kg dry	4.03	<0.161	73.1	75-125			
ILCS (1205801833-ILCS)					Prepared: 07/26/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	7.99	0.380	mg/kg	7.60		105	80-120			

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 BG

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2642896 - SW846 3060A										
BLANK (1205793723-BLK)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.400	mg/kg				-			U
LCS (1205793724-BKS)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	3.93	0.400	mg/kg	4.00		98.2	80-120			
DUP (1205793725 D)					Source: 673830001 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.558	mg/kg dry		0.256		0-50	N/A	50	U
MS (1205793726 S)					Source: 673830001 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	4.53	0.622	mg/kg dry	6.22	0.256	68.8	75-125			
DUP (1205793727 D)					Source: 673835005 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.393	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205793728 S)					Source: 673835005 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	3.77	0.393	mg/kg dry	3.93	<0.157	93.4	75-125			
ILCS (1205802327-ILCS)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	8.13	0.390	mg/kg	7.89		103	80-120			

Origins Laboratory, Inc.



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

David Castro
Project Number: [none]
Project: SECU 101 BG

Notes and Definitions

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

Jordan A. Bynon, Project Manager



July 29, 2024

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - SECU 101 WH

Project Number - [none]

Attached are your analytical results for SECU 101 WH received by Origins Laboratory, Inc. June 27, 2024. This project is associated with Origins project number Y406825-01.

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

David Castro
Project Number: [none]
Project: SECU 101 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@4'	Y406825-01	Soil	June 26, 2024 8:43	06/27/2024 15:13

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.

Jordan A. Bynon, Project Manager

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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

Client: Eagle Environmental Consulting
 Project Manager: David Castro
 Key: W=Water

Address: 8000 W 44th Ave
 Project Name: SECU 101 WH
 Key: GW=Groundwater


Telephone Number: 303-433-1322
 Project Number: [none]
 Key: SW=Surface Water

Email Address: dcastro@eagle-env.com
 Invoice/Billing Info: SI
 Key: WW=Misc Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Urbres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 L=Liquid

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis				Comments										
1	WH-101-01	06/29/24	15:13	3	3	SW	Urbres															
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Requisitioned By: [Signature] Date: 06/29/24 Time: 15:13
 Received By: [Signature] Date: 6/29/24 Time: 15:13
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Standard
 Temp Received: 4, 3 Received On Ice? Yes No

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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1400825

Client: Eagle
 Client Project ID: SECU 101 WH

Checklist Completed by: EAH
 Date/time completed: 6/27/24

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 14.3 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubbles) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ O ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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) EAH

7/1/24
 Date/Time Reviewed

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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

WH-FS-01@4'
6/26/2024 8:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406825-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.148		0.100	mg/L	1	B4G0216	07/02/2024	07/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	99.2		25.0	mg/kg	1	B4G0202	07/02/2024	07/03/2024	
Residual Range Organics (C28-C40)	433		100	"	"	"	"	"	

Surrogate: o-Terphenyl	84.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2858	06/28/2024	07/02/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	84.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	90.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

WH-FS-01@4'
6/26/2024 8:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406825-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 110 % 70-130 B4F28 58 06/28/2024 07/02/2024

Metals by Saturated Paste by EPA 6010

Calcium	0.826	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.93	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0224	07/02/2024	07/05/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

WH-FS-01@4'
6/26/2024 8:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406825-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4G0224	07/02/2024	07/05/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	81.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.85			pH Units	1	B4G0223	07/02/2024	07/03/2024	
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SAR by 20B Saturated Paste

SAR	7.94		0.0100	SAR	1	B4G0212	07/02/2024	07/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.589		0.00500	mmhos/cm	1	B4G0811	07/08/2024	07/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.01		0.258	mg/kg	10	B4F2821	06/28/2024	07/02/2024	
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

WH-FS-01@4'
6/26/2024 8:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406825-01 (Soil)

Table 915 metals by EPA 6020B

Barium	141		8.90	mg/kg	10	B4F2821	06/28/2024	07/02/2024	
Cadmium	0.109		0.0890	"	"	"	"	"	
Copper	ND		8.90	"	"	"	"	"	
Lead	26.5		0.890	"	"	"	"	"	
Nickel	6.78		0.890	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.158	0.395	mg/kg dry	1	2642896	07/18/2024	07/25/2024	U
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Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

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
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Batch B4F2858 - EPA 5030 (soil)

Blank (B4F2858-BLK1)

Prepared: 06/28/2024 Analyzed: 07/01/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125	81.8		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	110		70-130			

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

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
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Batch B4F2858 - EPA 5030 (soil)

LCS (B4F2858-BS1)

Prepared: 06/28/2024 Analyzed: 07/01/2024

1,2,4-Trimethylbenzene	0.0867	0.00200	mg/kg	0.100		86.7	70-130			
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100		86.7	70-130			
Benzene	0.0987	0.00200	"	0.100		98.7	70-130			
Ethylbenzene	0.0863	0.00200	"	0.100		86.3	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0867	0.00200	"	0.100		86.7	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
m,p-Xylene	0.172	0.00400	"	0.200		86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

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
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Batch B4F2858 - EPA 5030 (soil)

Matrix Spike (B4F2858-MS1)	Source: Y406660-04			Prepared: 06/28/2024 Analyzed: 07/01/2024						
1,2,4-Trimethylbenzene	0.0882	0.00200	mg/kg	0.100	ND	88.2	70-130			
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Naphthalene	0.0884	0.00380	"	0.100	ND	88.4	70-130			
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
o-Xylene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		79.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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

David Castro
 Project Number: [none]
 Project: SECU 101 WH

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
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Batch B4F2858 - EPA 5030 (soil)

Matrix Spike Dup (B4F2858-MSD1)	Source: Y406660-04		Prepared: 06/28/2024 Analyzed: 07/01/2024							
1,2,4-Trimethylbenzene	0.0822	0.00200	mg/kg	0.100	ND	82.2	70-130	7.07	20	
1,3,5-Trimethylbenzene	0.0827	0.00200	"	0.100	ND	82.7	70-130	7.25	20	
Benzene	0.0941	0.00200	"	0.100	ND	94.1	70-130	3.43	20	
Ethylbenzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	6.51	20	
Naphthalene	0.0925	0.00380	"	0.100	ND	92.5	70-130	4.58	20	
Toluene	0.0825	0.00200	"	0.100	ND	82.5	70-130	4.27	20	
o-Xylene	0.0820	0.00200	"	0.100	ND	82.0	70-130	6.40	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.2	70-130	7.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: SECU 101 WH

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
Batch B4G0202 - EPA 3550B										
Blank (B4G0202-BLK1)										
					Prepared: 07/02/2024 Analyzed: 07/02/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		84.3	50-150			

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0202 - EPA 3550B

LCS (B4G0202-BS1)

Prepared: 07/02/2024 Analyzed: 07/02/2024

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0202 - EPA 3550B

Matrix Spike (B4G0202-MS1)	Source: Y406775-05			Prepared: 07/02/2024 Analyzed: 07/02/2024						
Diesel (C10-C28)	2330	50.0	mg/kg	1000	1470	85.8	70-130			
Residual Range Organics (C28-C40)	1790	200	"	1000	927	86.0	70-130			
Surrogate: o-Terphenyl	78		"	49.8		157	50-150			S-04

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 Project: SECU 101 WH

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0202 - EPA 3550B

Matrix Spike Dup (B4G0202-MSD1)	Source: Y406775-05			Prepared: 07/02/2024 Analyzed: 07/02/2024						
Diesel (C10-C28)	2500	50.0	mg/kg	1000	1470	103	70-130	7.26	35	
Residual Range Organics (C28-C40)	2000	200	"	1000	927	107	70-130	11.1	35	
Surrogate: o-Terphenyl	75		"	49.8		150	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2821 - EPA 3050B

Blank (B4F2821-BLK1)

Prepared: 06/28/2024 Analyzed: 07/02/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4F2821-BS1)

Prepared: 06/28/2024 Analyzed: 07/02/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	549	10.0	"	500		110	80-120			
Cadmium	5.68	0.100	"	5.00		114	80-120			
Copper	58.8	10.0	"	50.0		118	80-120			
Lead	5.54	1.00	"	5.00		111	80-120			
Nickel	5.50	1.00	"	5.00		110	80-120			
Selenium	5.78	0.260	"	5.00		116	80-120			
Silver	5.42	0.100	"	5.00		108	80-120			
Zinc	52.4	37.0	"	50.0		105	80-120			

Matrix Spike (B4F2821-MS1)

Source: Y406822-02

Prepared: 06/28/2024 Analyzed: 07/02/2024

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2821 - EPA 3050B

Matrix Spike (B4F2821-MS1)

Source: Y406822-02

Prepared: 06/28/2024 Analyzed: 07/02/2024

Arsenic	10.0	0.259	mg/kg	4.46	6.53	78.8	75-125			
Barium	577	8.92	"	446	85.3	110	75-125			
Cadmium	5.34	0.0892	"	4.46	0.201	115	75-125			
Copper	59.0	8.92	"	44.6	9.30	111	75-125			
Lead	12.2	0.892	"	4.46	8.30	86.8	75-125			
Nickel	14.5	0.892	"	4.46	9.72	107	75-125			
Selenium	5.34	0.232	"	4.46	0.335	112	75-125			
Silver	4.91	0.0892	"	4.46	0.0394	109	75-125			
Zinc	81.8	33.0	"	44.6	34.5	106	75-125			

Matrix Spike Dup (B4F2821-MSD1)

Source: Y406822-02

Prepared: 06/28/2024 Analyzed: 07/02/2024

Arsenic	10.1	0.271	mg/kg	4.68	6.53	76.3	75-125	0.572	20	
Barium	610	9.36	"	468	85.3	112	75-125	5.59	20	
Cadmium	5.65	0.0936	"	4.68	0.201	116	75-125	5.64	20	
Copper	61.8	9.36	"	46.8	9.30	112	75-125	4.65	20	
Lead	12.8	0.936	"	4.68	8.30	95.2	75-125	4.69	20	
Nickel	14.6	0.936	"	4.68	9.72	105	75-125	0.822	20	
Selenium	5.86	0.243	"	4.68	0.335	118	75-125	9.33	20	
Silver	5.13	0.0936	"	4.68	0.0394	109	75-125	4.30	20	
Zinc	86.3	34.6	"	46.8	34.5	111	75-125	5.34	20	

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: SECU 101 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0224 - EPA 3580

Blank (B4G0224-BLK1)

Prepared: 07/02/2024 Analyzed: 07/04/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.1	60-130			
Surrogate: Pyrene-d10	190		"	200		97.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B4G0224-BS1)

Prepared: 07/02/2024 Analyzed: 07/04/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		103	70-130			
2-Methylnaphthalene	0.207	0.002	"	0.200		103	70-130			
Acenaphthene	0.220	0.020	"	0.200		110	70-130			
Anthracene	0.188	0.020	"	0.200		94.1	70-130			

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0224 - EPA 3580

LCS (B4G0224-BS1)

Prepared: 07/02/2024 Analyzed: 07/04/2024

Benzo (a) anthracene	0.199	0.005	mg/kg	0.200		99.4	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.217	0.020	"	0.200		108	70-130			
Benzo (k) fluoranthene	0.212	0.020	"	0.200		106	70-130			
Chrysene	0.211	0.020	"	0.200		105	70-130			
Dibenz (a,h) anthracene	0.209	0.020	"	0.200		105	70-130			
Fluoranthene	0.196	0.020	"	0.200		98.1	70-130			
Fluorene	0.229	0.020	"	0.200		115	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.221	0.002	"	0.200		110	70-130			
Phenanthrene	0.197	0.020	"	0.200		98.6	70-130			
Pyrene	0.204	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B4G0224-MS1)

Source: Y406825-01

Prepared: 07/02/2024 Analyzed: 07/04/2024

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	0.001	102	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	0.002	101	70-130			
Acenaphthene	0.222	0.020	"	0.200	ND	111	70-130			
Anthracene	0.205	0.020	"	0.200	0.011	97.4	70-130			
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0009	98.0	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.001	106	70-130			
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	0.003	106	70-130			

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0224 - EPA 3580

Matrix Spike (B4G0224-MS1)	Source: Y406825-01			Prepared: 07/02/2024 Analyzed: 07/04/2024						
Benzo (k) fluoranthene	0.207	0.020	mg/kg	0.200	ND	104	70-130			
Chrysene	0.201	0.020	"	0.200	0.003	99.4	70-130			
Dibenz (a,h) anthracene	0.218	0.020	"	0.200	ND	109	70-130			
Fluoranthene	0.207	0.020	"	0.200	0.002	103	70-130			
Fluorene	0.229	0.020	"	0.200	ND	115	70-130			
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.219	0.002	"	0.200	0.001	109	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130			
Pyrene	0.184	0.020	"	0.200	0.007	88.2	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.4	60-130			
Surrogate: Pyrene-d10	170		"	200		86.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4G0224-MSD1)	Source: Y406825-01			Prepared: 07/02/2024 Analyzed: 07/04/2024						
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.001	103	70-130	0.960	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	0.002	103	70-130	1.63	20	
Acenaphthene	0.219	0.020	"	0.200	ND	110	70-130	1.09	20	
Anthracene	0.202	0.020	"	0.200	0.011	95.8	70-130	1.58	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	0.0009	96.1	70-130	1.96	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	104	70-130	2.76	20	
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.001	102	70-130	3.23	20	
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	0.003	104	70-130	1.43	20	
Benzo (k) fluoranthene	0.209	0.020	"	0.200	ND	104	70-130	0.686	20	
Chrysene	0.203	0.020	"	0.200	0.003	100	70-130	0.772	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	ND	106	70-130	2.94	20	
Fluoranthene	0.212	0.020	"	0.200	0.002	105	70-130	2.24	20	

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0224 - EPA 3580

Matrix Spike Dup (B4G0224-MSD1)	Source: Y406825-01			Prepared: 07/02/2024 Analyzed: 07/04/2024						
Fluorene	0.225	0.020	mg/kg	0.200	ND	112	70-130	2.07	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130	2.54	20	
Naphthalene	0.221	0.002	"	0.200	0.001	110	70-130	1.05	20	
Phenanthrene	0.200	0.020	"	0.200	ND	99.9	70-130	0.311	20	
Pyrene	0.176	0.020	"	0.200	0.007	84.6	70-130	4.02	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		90.8	60-130			
Surrogate: Pyrene-d10	170		"	200		82.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0212 - Saturated Paste Metals

Blank (B4G0212-BLK1)

Prepared: 07/02/2024 Analyzed: 07/03/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4G0212-DUP1)

Source: Y406745-19

Prepared: 07/02/2024 Analyzed: 07/03/2024

Calcium PPM	7.42	10.0	mg/L		15.7			71.4	50	
SAR	ND	0.0100	SAR		17.4				200	
Magnesium PPM	1.07	10.0	mg/L		1.67			43.8	50	
Sodium PPM	266	10.0	"		270			1.82	50	

Batch B4G0216 - DTPA Sorbitol Preparation

Blank (B4G0216-BLK1)

Prepared: 07/02/2024 Analyzed: 07/03/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4G0216-DUP1)

Source: Y406822-02

Prepared: 07/02/2024 Analyzed: 07/03/2024

Boron	0.282	0.0990	mg/L		0.287			1.76	50	
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 Project: SECU 101 WH

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G0223 - Saturated Paste pH/EC										
Duplicate (B4G0223-DUP1)		Source: Y406745-19			Prepared: 07/02/2024 Analyzed: 07/03/2024					
pH	8.78		pH Units		8.80			0.228	25	
Batch B4G0811 - Saturated Paste pH/EC										
Blank (B4G0811-BLK1)		Prepared: 07/08/2024 Analyzed: 07/08/2024								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4G0811-DUP1)		Source: Y406745-19			Prepared: 07/08/2024 Analyzed: 07/08/2024					
Specific Conductance (EC)	1.04	0.00500	mmhos/cm		0.959			8.04	25	

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David Castro
 Project Number: [none]
 Project: SECU 101 WH

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2642896 - SW846 3060A										
BLANK (1205793723-BLK)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.400	mg/kg				-			U
LCS (1205793724-BKS)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	3.93	0.400	mg/kg	4.00		98.2	80-120			
DUP (1205793725 D)					Source: 673830001 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.558	mg/kg dry		0.256		0-50	N/A	50	U
MS (1205793726 S)					Source: 673830001 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	4.53	0.622	mg/kg dry	6.22	0.256	68.8	75-125			
DUP (1205793727 D)					Source: 673835005 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	ND	0.393	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205793728 S)					Source: 673835005 Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	3.77	0.393	mg/kg dry	3.93	<0.157	93.4	75-125			
ILCS (1205802327-ILCS)					Prepared: 07/18/2024 Analyzed: 07/25/2024					
Hexavalent Chromium	8.13	0.390	mg/kg	7.89		103	80-120			

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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.

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David Castro
Project Number: [none]
Project: SECU 101 WH

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager