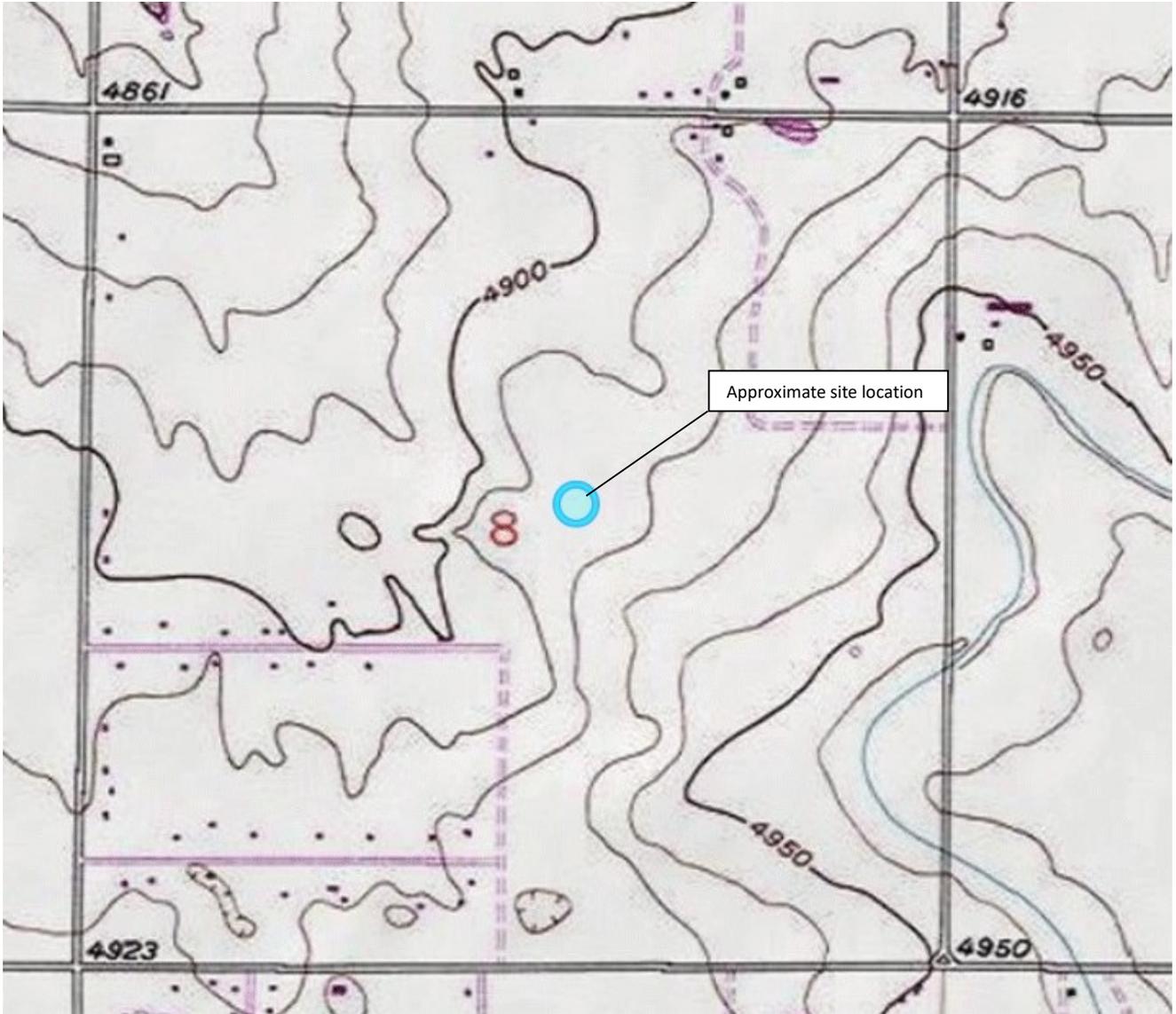


FIGURES



Approximate site location



Figure 1

Site Location Map
Kerr-McGee Oil and Gas Onshore LP
Sater 24C,40N,24N,25C-5HZ O SA Facility
SWNE Sec. 8-T2N-R67W
Weld County, Colorado



Source: USGS 7.5 Minute Topographic Map, Gowanda, CO Quadrangle

Drawn By: AM Date: 12/20/2023



Legend

-  Approximate dig area
-  Approximate extent of the release
-  Approximate soil sample location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 30 ft. 60 ft. 

Image Source: Google Earth 06/2021

DATE: December 20, 2023

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall



Kerr-McGee Oil and Gas Onshore LP
Sater 24C,40N,24N,25C-5HZ O SA Production Facility
 SWNE Sec. 8-T2N-R67W
 Weld County, Colorado

Screening and Sample Location Map

Figure 2

TABLES

TABLE 2
SATER 24C,40N,24N,25C-5HZ O SA
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Initial Waste Characterization @ 6"	12/19/23	116	427	74.6	616	11200	36900	12000	31.7	204	89.8

Notes:

⁽¹⁾ ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
SATER 24C,40N,24N,25C-5HZ O SA
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	<6	<4	2
Site-Specific Background Limits			8.25	2.41	0.782	0.385
Tank Battery Soil Samples						
Initial Waste Characterization @ 6"	12/19/23	0.5	7.66	3.08	1.07	0.382
Background Soil Samples						
BG-01 @ 6"	12/19/23	0.5	7.99	0.110	0.107	<0.0999
BG-02 @ 6"	12/19/23	0.5	8.09	0.148	0.301	0.182
BG-03 @ 6"	12/19/23	0.5	7.77	0.0892	0.134	<0.101
BG-04 @ 6"	12/19/23	0.5	8.25	2.41	0.782	0.385

Notes:

⁽¹⁾ Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

TABLE 4
SATER 24C,40N,24N,25C-5HZ O SA
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Initial Waste Characterization @ 6"	12/19/23	62.4	89.0	6.39	0.518	0.134	<0.200	<0.200	<0.200	0.711	<0.200	0.228	9.19	<0.200	0.401

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TABLE 5
SATER 24C,40N,24N,25C-5HZ O SA
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Site-Specific Background Limits</i>		5.26	106.6	NA	NA	NA	NA	NA	NA	NA	NA
Tank Battery Soil Samples											
Initial Waste Characterization @ 6"	12/19/23	2.95*	78.2	<0.0992	*<0.5	<9.92	6.21	6.82	0.171	<0.0992	26.4
Background Soil Samples											
BG-01 @ 6"	12/19/23	4.21	57.1	0.148	<0.5	<9.36	6.51	7.25	0.222	<0.0936	38.0
BG-02 @ 6"	12/19/23	2.30	59.6	0.111	<0.5	<9.64	6.48	6.71	<0.0964	<0.0964	26.6
BG-03 @ 6"	12/19/23	2.35	61.1	0.142	<0.5	<0.935	7.50	6.79	<0.0935	<0.0935	30.6
BG-04 @ 6"	12/19/23	2.54	85.3	0.141	<0.5	9.16	7.93	8.41	<0.0903	<0.0903	33.7

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

* = compound is in accordance with the ECMC Table 915-1 Footnote 9.

Values presented in **BOLD*** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations, but are within background concentrations.

Background soil sample **BG-01 @ 6"** was utilized to calculate a background concentration for arsenic of **5.26 mg/kg**.

Background soil sample **BG-04 @ 6"** was utilized to calculate a background concentration for barium of **106.6 mg/kg**.

**ATTACHMENT A
LABORATORY ANALYTICAL
RESULTS**

December 29, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sater 24C 40N 24N 25C-5 Project Number - [none]

Attached are your analytical results for KMG - Sater 24C 40N 24N 25C-5 received by Origins Laboratory, Inc. December 19, 2023. This project is associated with Origins project number Y312575-01.

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



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

Dan Coloccia
Project Number: [none]
Project: KMG - Sater 24C 40N 24N 25C-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Initial Waste Characterization @6'	Y312575-01	Soil	December 19, 2023 13:30	12/19/2023 16:10
BG-01@6"	Y312575-02	Soil	December 19, 2023 13:45	12/19/2023 16:10
BG-02@6"	Y312575-03	Soil	December 19, 2023 13:50	12/19/2023 16:10
BG-03@6"	Y312575-04	Soil	December 19, 2023 14:00	12/19/2023 16:10
BG-04@6"	Y312575-05	Soil	December 19, 2023 14:10	12/19/2023 16:10

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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



www.originslaboratory.com

page 1 of 1

Impacted

Client: Eagle Environmental (07)
 Address: 8000 W 44th Ave
Wheat Ridge CO 80033
 Telephone Number: 303-433-0479
 Email Address: dan.coloccia@eagle-enviro.com

Project Manager: D. Coloccia
 Project Name: Sater 24C 40N 24N 25C-5
 Project Number: ---
 Samples Collected By: SG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis				Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Full Table 415-1	EC/pH		SAR	Boron	Metals	
Initial Waste	12/19/23	1330	3	X									X					
Characterization @ 6"																		
BG-01 @ 6"	12/19/23	1345	3	X									X	X	X	X		
BG-02 @ 6"		1350											X	X	X	X		
BG-03 @ 6"		1400											X	X	X	X		
BG-04 @ 6"		1410											X	X	X	X		

Relinquished By: [Signature] Date: 12/19/2023 Time: 1000

Received By: [Signature] Date: 12/19/23 Time: 1010

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

Temp Received: 5 Date Results Needed

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: U312575

Client: Eagle

Client Project ID: Sater 24C 40N 24N 25C-

Checklist Completed by: EHS

Shipped Via: 40

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/19/12

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

[Signature]
 Reviewed by (Project Manager)

12/19/12
 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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

**Initial Waste Characterization @
 12/19/2023 1:30:00PM**

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

**Origins Laboratory, Inc.
 Y312575-01 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.382		0.0992	mg/L	1	B3L2011	12/20/2023	12/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	36900		250	mg/kg	10	B3L1934	12/19/2023	12/20/2023	
Residual Range Organics (C28-C40)	12000		1000	"	"	"	"	"	

Surrogate: o-Terphenyl	2190 %		50-150			"	"	"	S-06
------------------------	--------	--	--------	--	--	---	---	---	------

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	204		5.00	mg/kg	2500	B3L1935	"	12/20/2023	
1,3,5-Trimethylbenzene	89.8		0.500	"	250	"	"	12/20/2023	
Benzene	116		5.00	"	2500	"	"	12/20/2023	
Ethylbenzene	74.6		0.500	"	250	"	"	12/20/2023	
Toluene	427		5.00	"	2500	"	"	12/20/2023	
Xylenes, total	616		5.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	11200		500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.5 %		70-130			"	"	12/20/2023	
Surrogate: Toluene-d8	117 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %		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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

**Initial Waste Characterization @
 12/19/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y312575-01 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	3.71		0.499	meq/L	10	[CALC]	12/20/2023	12/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.49		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	62.4		0.200	mg/kg	100	B3L1929	12/19/2023	12/20/2023	
2-Methylnaphthalene	89.0		2.00	"	1000	"	"	12/20/2023	
Acenaphthene	6.39		0.200	"	10	"	"	12/20/2023	
Anthracene	0.518		0.200	"	"	"	"	"	
Benzo (a) anthracene	0.134		0.050	"	"	"	"	"	
Benzo (a) pyrene	ND		0.200	"	"	"	"	"	R-05, U
Benzo (b) fluoranthene	ND		0.200	"	"	"	"	"	R-05, U
Benzo (k) fluoranthene	ND		0.200	"	"	"	"	"	R-05, U
Chrysene	0.711		0.200	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.200	"	"	"	"	"	R-05, U
Fluoranthene	0.228		0.200	"	"	"	"	"	
Fluorene	9.19		0.200	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.200	"	"	"	"	"	R-05, U
Naphthalene	31.7		0.200	"	100	"	"	12/20/2023	
Pyrene	0.401		0.200	"	10	"	"	12/20/2023	
Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	110 %		60-130			"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

**Initial Waste Characterization @
 12/19/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y312575-01 (Soil)**

PAH by EPA 8270E

Surrogate: Pyrene-d10	88.5 %		60-130			B3L19 29	12/19/2023	12/20/2023	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.66			pH Units	1	B3L2015	12/20/2023	12/22/2023	
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SAR by 20B Saturated Paste

SAR	3.08		0.0100	SAR	1	B3L2009	12/20/2023	12/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.07		0.00500	mmhos/cm	1	B3L2015	12/20/2023	12/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.95		0.0992	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Barium	78.2		9.92	"	"	"	"	"	
Cadmium	ND		0.0992	"	"	"	"	"	
Copper	ND		9.92	"	"	"	"	"	
Lead	6.21		0.992	"	"	"	"	"	
Nickel	6.82		0.992	"	"	"	"	"	
Selenium	0.171		0.0992	"	"	"	"	"	
Silver	ND		0.0992	"	"	"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

**Initial Waste Characterization @
 12/19/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y312575-01 (Soil)**

Table 915 metals by EPA 6020B

Zinc	26.4		9.92	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724743	12/19/2023	12/27/2023	
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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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-01@6"

12/19/2023 1:45:00PM

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

Origins Laboratory, Inc.
Y312575-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B3L2011	12/20/2023	12/21/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	0.566		0.499	meq/L	10	[CALC]	12/20/2023	12/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B3L2015	12/20/2023	12/22/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.110		0.0100	SAR	1	B3L2009	12/20/2023	12/22/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.107		0.00500	mmhos/cm	1	B3L2015	12/20/2023	12/22/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	4.21		0.0936	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Barium	57.1		9.36	"	"	"	"	"	
Cadmium	0.148		0.0936	"	"	"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-01@6"

12/19/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.36	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Lead	6.51		0.936	"	"	"	"	"	
Nickel	7.25		0.936	"	"	"	"	"	
Selenium	0.222		0.0936	"	"	"	"	"	
Silver	ND		0.0936	"	"	"	"	"	
Zinc	38.0		9.36	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724743	12/19/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-02@6"

12/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182		0.100	mg/L	1	B3L2011	12/20/2023	12/21/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.33		0.499	meq/L	10	[CALC]	12/20/2023	12/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B3L2015	12/20/2023	12/22/2023	
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SAR by 20B Saturated Paste

SAR	0.148		0.0100	SAR	1	B3L2009	12/20/2023	12/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.301		0.00500	mmhos/cm	1	B3L2015	12/20/2023	12/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.30		0.0964	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Barium	59.6		9.64	"	"	"	"	"	
Cadmium	0.111		0.0964	"	"	"	"	"	
Copper	ND		9.64	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-02@6"

12/19/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-03 (Soil)

Table 915 metals by EPA 6020B

Lead	6.48		0.964	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Nickel	6.71		0.964	"	"	"	"	"	
Selenium	ND		0.0964	"	"	"	"	"	
Silver	ND		0.0964	"	"	"	"	"	
Zinc	26.6		9.64	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724743	12/19/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-03@6"

12/19/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3L2012	12/20/2023	12/21/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	0.708		0.499	meq/L	10	[CALC]	12/20/2023	12/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.77			pH Units	1	B3L2015	12/20/2023	12/22/2023	
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SAR by 20B Saturated Paste

SAR	0.0892		0.0100	SAR	1	B3L2009	12/20/2023	12/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.134		0.00500	mmhos/cm	1	B3L2015	12/20/2023	12/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.35		0.0935	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Barium	61.1		9.35	"	"	"	"	"	
Cadmium	0.142		0.0935	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-03@6"

12/19/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.35	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Lead	7.50		0.935	"	"	"	"	"	
Nickel	6.79		0.935	"	"	"	"	"	
Selenium	ND		0.0935	"	"	"	"	"	
Silver	ND		0.0935	"	"	"	"	"	
Zinc	30.6		9.35	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724743	12/19/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-04@6"

12/19/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.385		0.101	mg/L	1	B3L2012	12/20/2023	12/21/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.25		0.499	meq/L	10	[CALC]	12/20/2023	12/22/2023	
Magnesium	1.65		0.823	"	"	"	"	"	
Sodium	3.37		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B3L2015	12/20/2023	12/22/2023	
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SAR by 20B Saturated Paste

SAR	2.41		0.0100	SAR	1	B3L2009	12/20/2023	12/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.782		0.00500	mmhos/cm	1	B3L2015	12/20/2023	12/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.54		0.0903	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Barium	85.3		9.03	"	"	"	"	"	
Cadmium	0.141		0.0903	"	"	"	"	"	
Copper	9.16		9.03	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

BG-04@6"

12/19/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312575-05 (Soil)

Table 915 metals by EPA 6020B

Lead	7.93		0.903	mg/kg	10	B3L1932	12/19/2023	12/20/2023	
Nickel	8.41		0.903	"	"	"	"	"	
Selenium	ND		0.0903	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	33.7		9.03	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724743	12/19/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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
Batch B3L1934 - EPA 3550B										
Blank (B3L1934-BLK1)										
					Prepared: 12/19/2023 Analyzed: 12/19/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1934 - EPA 3550B

LCS (B3L1934-BS1)

Prepared: 12/19/2023 Analyzed: 12/19/2023

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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
Batch B3L1934 - EPA 3550B										
Matrix Spike (B3L1934-MS1)		Source: Y312570-01			Prepared: 12/19/2023 Analyzed: 12/19/2023					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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
Batch B3L1934 - EPA 3550B										
Matrix Spike Dup (B3L1934-MSD1)										
		Source: Y312570-01						Prepared: 12/19/2023 Analyzed: 12/19/2023		
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	16.2	35	
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130	15.2	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>49.8</i>		<i>102</i>	<i>50-150</i>			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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
Batch B3L1935 - EPA 5030 (soil)										
Blank (B3L1935-BLK1)										
					Prepared: 12/19/2023 Analyzed: 12/19/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1935 - EPA 5030 (soil)

LCS (B3L1935-BS1)

Prepared: 12/19/2023 Analyzed: 12/19/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.0981	0.00200	"	0.100		98.1	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1935 - EPA 5030 (soil)

Matrix Spike (B3L1935-MS1)	Source: Y312570-01			Prepared: 12/19/2023 Analyzed: 12/19/2023						
1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130			
1,3,5-Trimethylbenzene	0.0866	0.00200	"	0.100	ND	86.6	70-130			
Benzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Naphthalene	0.0868	0.00380	"	0.100	ND	86.8	70-130			
Toluene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
o-Xylene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1935 - EPA 5030 (soil)

Matrix Spike Dup (B3L1935-MSD1)	Source: Y312570-01			Prepared: 12/19/2023 Analyzed: 12/19/2023						
1,2,4-Trimethylbenzene	0.0867	0.00200	mg/kg	0.100	ND	86.7	70-130	0.667	20	
1,3,5-Trimethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	0.718	20	
Benzene	0.0949	0.00200	"	0.100	ND	94.9	70-130	0.0632	20	
Ethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	0.859	20	
Naphthalene	0.0885	0.00380	"	0.100	ND	88.5	70-130	1.96	20	
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130	0.463	20	
o-Xylene	0.0865	0.00200	"	0.100	ND	86.5	70-130	0.829	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.8	70-130	1.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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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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 B3L1932 - EPA 3050B

Blank (B3L1932-BLK1)

Prepared: 12/19/2023 Analyzed: 12/20/2023

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B3L1932-BS1)

Prepared: 12/19/2023 Analyzed: 12/20/2023

Arsenic	4.72	0.0100	mg/kg	5.00		94.4	80-120			
Barium	459	1.00	"	500		91.8	80-120			
Cadmium	4.96	0.0100	"	5.00		99.3	80-120			
Copper	51.7	1.00	"	50.0		103	80-120			
Lead	4.88	0.100	"	5.00		97.7	80-120			
Nickel	4.54	0.100	"	5.00		90.8	80-120			
Selenium	4.37	0.0100	"	5.00		87.5	80-120			
Silver	4.93	0.0100	"	5.00		98.7	80-120			
Zinc	48.5	1.00	"	50.0		96.9	80-120			

Matrix Spike (B3L1932-MS1)

Source: Y312575-03

Prepared: 12/19/2023 Analyzed: 12/21/2023

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1932 - EPA 3050B

Matrix Spike (B3L1932-MS1)		Source: Y312575-03			Prepared: 12/19/2023 Analyzed: 12/21/2023					
Arsenic	6.47	0.0868	mg/kg	4.34	2.30	96.2	75-125			
Barium	516	8.68	"	434	59.6	105	75-125			
Cadmium	4.73	0.0868	"	4.34	0.111	107	75-125			
Copper	51.7	8.68	"	43.4	7.94	101	75-125			
Lead	11.4	0.868	"	4.34	6.48	114	75-125			
Nickel	10.8	0.868	"	4.34	6.71	93.9	75-125			
Selenium	5.09	0.0868	"	4.34	0.0800	115	75-125			
Silver	4.48	0.0868	"	4.34	0.0328	102	75-125			
Zinc	62.6	8.68	"	43.4	26.6	82.9	75-125			

Matrix Spike Dup (B3L1932-MSD1)		Source: Y312575-03			Prepared: 12/19/2023 Analyzed: 12/21/2023					
Arsenic	8.19	0.0949	mg/kg	4.74	2.30	124	75-125	23.4	20	QR-DUP
Barium	595	9.49	"	474	59.6	113	75-125	14.2	20	
Cadmium	5.52	0.0949	"	4.74	0.111	114	75-125	15.3	20	
Copper	60.5	9.49	"	47.4	7.94	111	75-125	15.8	20	
Lead	13.9	0.949	"	4.74	6.48	156	75-125	19.5	20	QM-07
Nickel	12.9	0.949	"	4.74	6.71	131	75-125	18.1	20	QM-07
Selenium	6.05	0.0949	"	4.74	0.0800	126	75-125	17.3	20	QM-07
Silver	5.25	0.0949	"	4.74	0.0328	110	75-125	15.8	20	
Zinc	71.9	9.49	"	47.4	26.6	95.5	75-125	13.9	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1929 - EPA 3580

Blank (B3L1929-BLK1)

Prepared: 12/19/2023 Analyzed: 12/19/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B3L1929-BS1)

Prepared: 12/19/2023 Analyzed: 12/19/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200		101	70-130			
Acenaphthene	0.191	0.020	"	0.200		95.4	70-130			
Anthracene	0.170	0.020	"	0.200		84.8	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1929 - EPA 3580

LCS (B3L1929-BS1)

Prepared: 12/19/2023 Analyzed: 12/19/2023

Benzo (a) anthracene	0.201	0.005	mg/kg	0.200		101	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200		101	70-130			
Benzo (b) fluoranthene	0.173	0.020	"	0.200		86.3	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (k) fluoranthene	0.176	0.020	"	0.200		87.8	70-130			
Chrysene	0.195	0.020	"	0.200		97.7	70-130			
Dibenz (a,h) anthracene	0.171	0.020	"	0.200		85.4	70-130			
Fluoranthene	0.197	0.020	"	0.200		98.3	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130			
Naphthalene	0.192	0.002	"	0.200		96.2	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.0	70-130			
Pyrene	0.186	0.020	"	0.200		93.2	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B3L1929-MS1)

Source: Y312564-01

Prepared: 12/19/2023 Analyzed: 12/19/2023

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	0.001	97.6	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130			
Acenaphthene	0.182	0.020	"	0.200	ND	91.0	70-130			
Anthracene	0.171	0.020	"	0.200	ND	85.7	70-130			
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.170	0.020	"	0.200	ND	85.1	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.6	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1929 - EPA 3580

Matrix Spike (B3L1929-MS1)		Source: Y312564-01			Prepared: 12/19/2023 Analyzed: 12/19/2023					
Benzo (k) fluoranthene	0.171	0.020	mg/kg	0.200	ND	85.3	70-130			
Chrysene	0.166	0.020	"	0.200	ND	83.2	70-130			
Dibenz (a,h) anthracene	0.164	0.020	"	0.200	ND	82.1	70-130			
Fluoranthene	0.181	0.020	"	0.200	0.0008	90.2	70-130			
Fluorene	0.190	0.020	"	0.200	ND	95.0	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.184	0.002	"	0.200	ND	92.0	70-130			
Phenanthrene	0.171	0.020	"	0.200	ND	85.7	70-130			
Pyrene	0.177	0.020	"	0.200	ND	88.7	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3L1929-MSD1)		Source: Y312564-01			Prepared: 12/19/2023 Analyzed: 12/19/2023					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	0.001	93.1	70-130	4.76	20	
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	96.1	70-130	1.30	20	
Acenaphthene	0.183	0.020	"	0.200	ND	91.7	70-130	0.716	20	
Anthracene	0.177	0.020	"	0.200	ND	88.3	70-130	3.00	20	
Benzo (a) anthracene	0.218	0.005	"	0.200	ND	109	70-130	7.28	20	
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	97.1	70-130	3.00	20	
Benzo (b) fluoranthene	0.169	0.020	"	0.200	ND	84.7	70-130	0.452	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	92.1	70-130	0.496	20	
Benzo (k) fluoranthene	0.166	0.020	"	0.200	ND	82.8	70-130	3.01	20	
Chrysene	0.187	0.020	"	0.200	ND	93.6	70-130	11.8	20	
Dibenz (a,h) anthracene	0.163	0.020	"	0.200	ND	81.3	70-130	0.933	20	
Fluoranthene	0.185	0.020	"	0.200	0.0008	92.0	70-130	1.93	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L1929 - EPA 3580

Matrix Spike Dup (B3L1929-MSD1)	Source: Y312564-01			Prepared: 12/19/2023 Analyzed: 12/19/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.3	70-130	0.271	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	ND	114	70-130	13.0	20	
Naphthalene	0.186	0.002	"	0.200	ND	93.2	70-130	1.28	20	
Phenanthrene	0.168	0.020	"	0.200	ND	84.2	70-130	1.79	20	
Pyrene	0.176	0.020	"	0.200	ND	87.9	70-130	0.953	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

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 B3L2009 - Saturated Paste Metals

Blank (B3L2009-BLK1)

Prepared: 12/20/2023 Analyzed: 12/22/2023

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

Duplicate (B3L2009-DUP1)

Source: Y312545-01

Prepared: 12/20/2023 Analyzed: 12/22/2023

SAR	ND	0.0100	SAR	1.30					200	
Calcium PPM	89.8	10.0	mg/L	97.2				7.92	50	
Magnesium PPM	38.4	10.0	"	46.0				18.2	50	
Sodium PPM	54.6	10.0	"	62.0				12.8	50	

Batch B3L2011 - DTPA Sorbitol Preparation

Blank (B3L2011-BLK1)

Prepared: 12/20/2023 Analyzed: 12/21/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3L2011-DUP1)

Source: Y312567-03

Prepared: 12/20/2023 Analyzed: 12/21/2023

Boron	0.425	0.0996	mg/L	0.408				4.25	50	
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Batch B3L2012 - DTPA Sorbitol Preparation

Blank (B3L2012-BLK1)

Prepared: 12/20/2023 Analyzed: 12/21/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3L2012-DUP1)

Source: Y312545-01

Prepared: 12/20/2023 Analyzed: 12/21/2023

Boron	0.466	0.0997	mg/L	0.468				0.243	50	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2015 - Saturated Paste pH/EC										
Blank (B3L2015-BLK1)					Prepared: 12/20/2023 Analyzed: 12/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L2015-DUP1)					Source: Y312545-01 Prepared: 12/20/2023 Analyzed: 12/22/2023					
pH	8.10		pH Units		8.06			0.495	25	
Specific Conductance (EC)	1.08	0.00500	mmhos/cm		1.18			9.25	25	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sater 24C 40N 24N 25C-5

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L724743 -										
DUP (L 93537-DUP)		Source: Y312575-02			Prepared: Analyzed: 12/27/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 93537-MS)		Source: Y312575-02			Prepared: Analyzed: 12/27/2023					
Chromium, Hexavalent	34.2	2.5	mg/Kg	39.4	<1.22	87	75-125			
LCS (LCS)		Prepared: Analyzed: 12/27/2023								
Chromium, Hexavalent	7.16	0.5	mg/Kg	8		90	75-125			
LRB (LRB)		Prepared: Analyzed: 12/27/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Sater 24C 40N 24N 25C-5

Notes and Definitions

- U Sample is Non-Detect.

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

- 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.



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ATTACHMENT B
FIELD NOTES AND PHOTOLOG



Tank Battery Closure Checklist 2

Additional Attachments (Optional)

Site Name & COGCC Facility Number	Sater 24C 40N 24N 25C-5
Remediation Project #	
Date	12/19/2023

Site Information

Associated Wells

Location

Latitude	40.153301
Longitude	-104.913144

General Condition of Site Active release
BG-01@6" & BG-02@6" were collected within the berm of the facility. BG-03@6" and BG-04@6" were collected just outside of the facility pad.

USCS Soil Type	<i>Fine Sandy Loam / Fine Sndy Lm</i>
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Yes - active release
Salt Crusted Soils or Impacted Vegetation	None observed

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Equipment Type	Other Equipment Type
R1	12/19/2023	01:30 PM	Initial waste characterization @ 6"	1223.3	HC Staining		HC Odor		Separator	
R2	12/19/2023	01:45 PM	BG-01 @ 6"	14.9	N.S		N.O		Background	
R3	12/19/2023	01:50 PM	BG-02 @ 6"	17.9	N.S		N.O		Background	
R4	12/19/2023	02:00 PM	BG-03 @ 6"	4.3	N.S		N.O		Background	
R5	12/19/2023	02:10 PM	BG-04 @ 6"	7.7	N.S		N.O		Background	

Photo(s)

R1 - P1



Initial waste characterization @ 6"

Looking northwest

R2 - P1



BG-01 @ 6"

Looking east

R3 - P1



BG-02 @ 6"

Looking north

R4 - P1



BG-03 @ 6"

Looking northeast

R5 - P1



Looking southwest

Other observations regarding tanks

Summary

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	5
Total number of soil samples collected	5
Highest PID Reading	1223.3
Total number of soil samples submitted to lab for analysis	5
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	

**ATTACHMENT C
STATE NOTIFICATION**

From: Ochoa, Ariana

Sent: Tuesday, December 19, 2023 1:06 PM

To: Kari.oakman@state.co.us; Jason Maxey <jmaxey@weldgov.com>; Roy Rudisill (rrudisill@co.weld.co.us) <rrudisill@co.weld.co.us>

Cc: Hamilton, Gregory <Gregory_Hamilton@oxy.com>; Scranton, Lynna <Lynna_Scranton@oxy.com>; Mickelson, Erik <Erik_Mickelson@oxy.com>; Rowley, Taylor <Taylor_Rowley@oxy.com>; Bugarin, Eve M <Eve_Bugarin@oxy.com>; Lytle, Andy <Andrew_Lytle@oxy.com>; Jobe, Don <Don_Jobe@oxy.com>; Grage, Mark <Mark_Grage@oxy.com>; Bartoszek, Jaron <Jaron_Bartoszek@oxy.com>; Brice, Jennifer <Jennifer_Brice@oxy.com>; Neely, Dewey (Platteville) <Dewey_Neely2@oxy.com>; Coleman, Julie <Julie_Coleman@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>; Mathes, Robert <Robert_Mathes@oxy.com>; Hamlin, Mark G <Mark_Hamlin@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>

Subject: State Reportable Release 24 Hour Notification - SATER 24C,40N,24N,25C-5HZ O SA

Good afternoon,

We identified a state reportable release due to fluid daylighting from the subsurface from an oil gathering line. The release has been controlled and the line has been shut-in. Clean-up activities are currently in process. A Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

- Weld County contacted via electronic mail
- Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife were not contacted as this release did not trigger notification requirements per 912.b.(2)B.

Location Details:

- Facility Name: SATER 24C,40N,24N,25C-5HZ O SA
- Location: SWNE 8 2N 67W
- Latitude/Longitude: 40.15343, -104.91296
- Location ID: 417800

Please let me know if you have any questions.

Thank you,

Ariana Ochoa

Sr. HSE Advisor

Occidental Petroleum Corporation

t: (713) 350-4906