



<b>SITE NAME:</b> Camp 30-14J							<b>DATE:</b> 11/29/2023	<b>REM. PROJECT #:</b>		<b>WEATHER:</b> Partly cloudy 40s/50s	
<b>SITE DIRECTIONS:</b> WCR 39/CR28 head W 1 km turn N into site							<b>CLIENT:</b> Oxy				
<b>LEGALS AND LAT/LONG:</b> 40.1908532, -104.70990726							<b>TASMAN PERSONNEL:</b> SD, WI				
<b>SOIL TYPES:</b> Clayey Sand - SC							<b>SURFACE GRADIENT:</b> Southeast				
SOIL SAMPLING							FACILITY INFRASTRUCTURE				
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity		
							Above Ground Storage Tank (AST)				
11/29/2023 10:08	Wh-B01@6'	37.8	No Staining	Slight HC Odor	Yes	Lab	Buried or Partially Buried Vessel				
11/29/2023 10:10	WH-N01@5'	1.4	No Staining	No Odor	Yes	N/A	Separator				
11/29/2023 10:12	WH-S01@5'	5.6	No Staining	No Odor	Yes	N/A	Emission Control Device (ECD)				
11/29/2023 10:14	WH-E01@5'	1.7	No Staining	No Odor	Yes	N/A	Dump Line				
11/29/2023 10:16	WH-W01@5'	1.4	No Staining	No Odor	Yes	N/A	Wellhead				
11/29/2023 10:18	WHS-N01@3"	1.1	No Staining	No Odor	Yes	N/A	Flowline				
11/29/2023 10:20	WHS-S01@3"	1.0	No Staining	No Odor	Yes	N/A	Other:				
11/29/2023 10:22	WHS-E01@3"	0.9	No Staining	No Odor	Yes	N/A	Soil Loads Removed				
11/29/2023 10:24	WHS-W01@3"	0.8	No Staining	No Odor	Yes	N/A	IMPACTED SOIL IDENTIFIED?				
11/29/2023 10:26	BG01@3'	0.3	No Staining	No Odor	Yes	Lab	ESTIMATED VOLUME OF IMPACTS:				
11/29/2023 10:28	BG01@6'	0.1	No Staining	No Odor	Yes	Lab	Date		Number	CY	
11/29/2023 10:30	BG02@3'	0.3	No Staining	No Odor	Yes	Lab					
11/29/2023 10:32	BG02@6'	0.9	No Staining	No Odor	Yes	Lab					
11/29/2023 10:34	BG03@3'	0.8	No Staining	No Odor	Yes	Lab					
11/29/2023 10:36	BG03@6'	1.0	No Staining	No Odor	Yes	Lab					
11/29/2023 10:38	BG04@3'	0.9	No Staining	No Odor	Yes	Lab	Total Removed		0	0	
11/29/2023 10:40	BG04@6'	1.0	No Staining	No Odor	Yes	Lab	Disposal Facility:				
							Groundwater Recovery				
							DATE GW ENCOUNTERED:		DEPTH:		
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?				
							LNAPL OR SHEEN OBSERVED ON GW?				
GROUNDWATER SAMPLING							Date		BBLS		
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
							Total Removed		0		
							Disposal Facility:				



CAMP 30-145

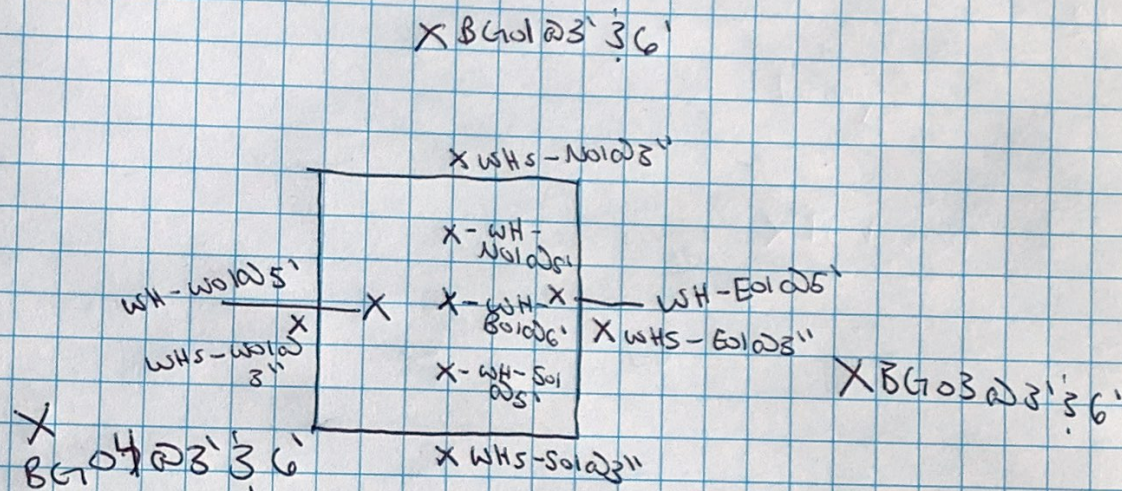
11/29/23

S. Dasher

W. IR by (GPS collected by WI.)

↗  
Surface Gradient

Access



WH-B01@6':

BTEX = PASS

TPH = PASS

1,2,4 = 0.0548

1,3,5 = 0.0477

1-M = 0.020

2-M = 0.041

N = 0.014

As = 0.779


Background Results:

pH = 7.06 - 8.25

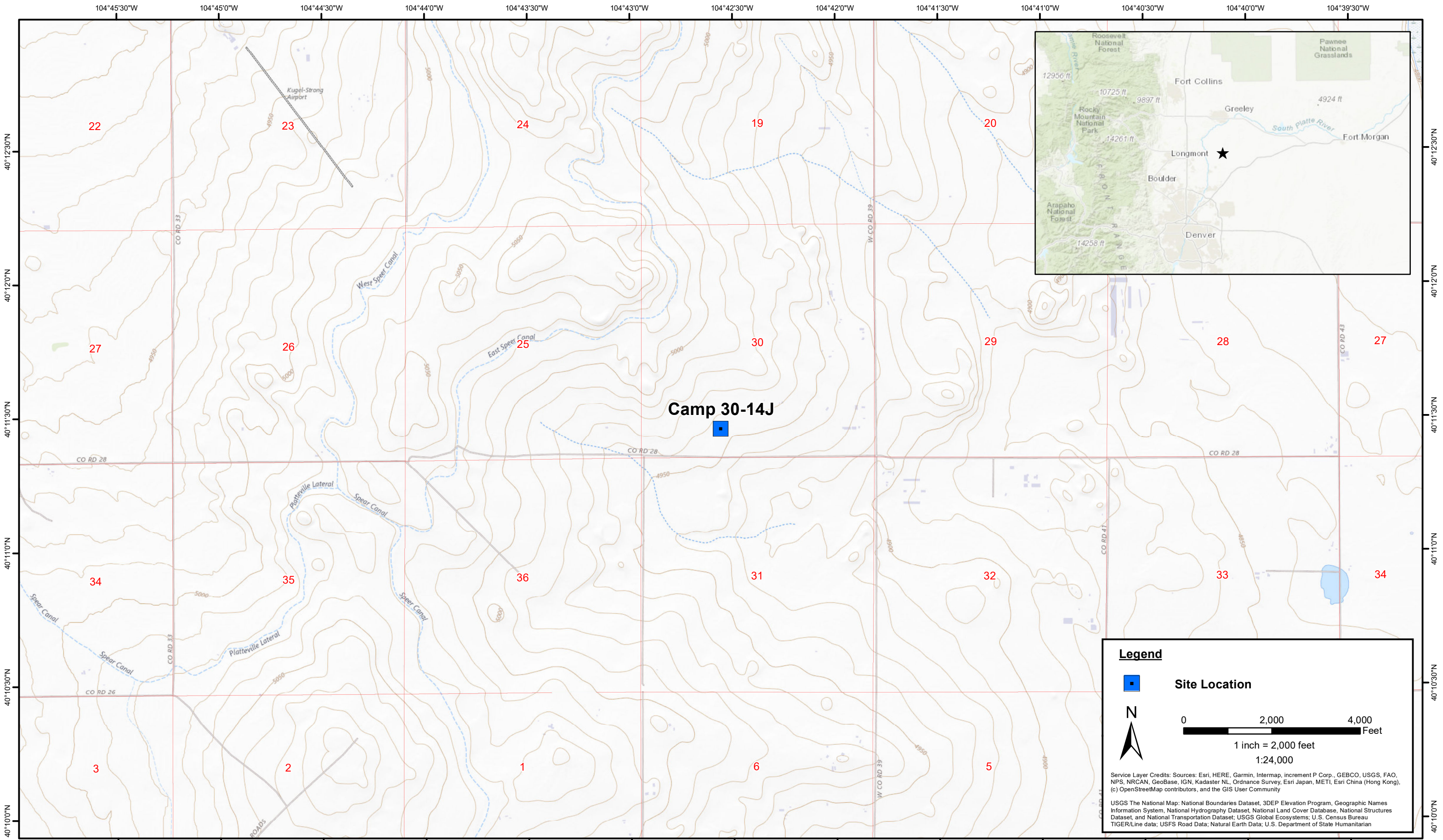
As = 0.916 - 1.59



## Photographic Log

			
Equipment ID:	Equipment Type:	Equipment ID:	Equipment Type:
Material:	Volume:	Contents:	Material:
Volume:	Contents:	Notes/Conditions:	
Notes/Conditions:		Notes/Conditions:	





DATE:	September 28, 2023
DESIGNED BY:	E. Siegel
DRAWN BY:	L. Reed



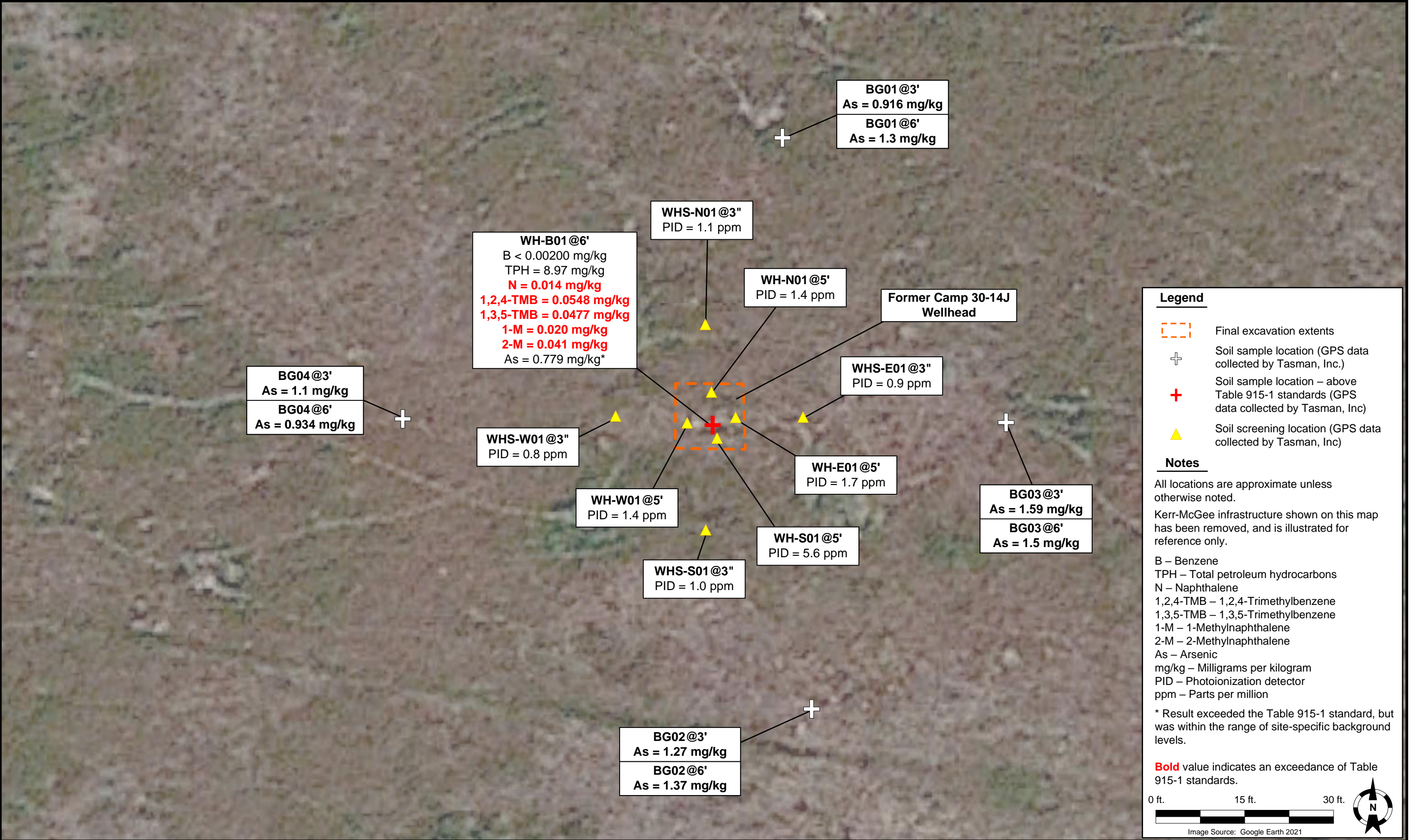
**Tasman, Inc.**  
6855 W. 119th Ave  
Broomfield, CO 80020

**Kerr-McGee Oil and Gas Onshore LP**  
**Camp 30-14J**  
SESW Sec. 30-T3N-R65W  
Weld County, Colorado

Site Location Map

Figure  
1





**TABLE 1**  
**CAMP 30-14J WELLHEAD**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Submitted for Lab Analysis? (Y/N)
WH-B01@6'	11/29/23	6	37.8	No Staining	Slight HC Odor	40.19101532	-104.7092614	NA	Yes
WH-N01@5'	11/29/23	5	1.4	No Staining	No Odor	40.1910293	-104.7092624	1.2	No
WH-S01@5'	11/29/23	5	5.6	No Staining	No Odor	40.19100869	-104.7092586	NA	No
WH-E01@5'	11/29/23	5	1.7	No Staining	No Odor	40.19101761	-104.7092474	NA	No
WH-W01@5'	11/29/23	5	1.4	No Staining	No Odor	40.19101614	-104.7092758	NA	No
WHS-N01@3"	11/29/23	0.25	1.1	No Staining	No Odor	40.191059	-104.7092652	0.9	No
WHS-S01@3"	11/29/23	0.25	1.0	No Staining	No Odor	40.19096666	-104.7092647	NA	No
WHS-E01@3"	11/29/23	0.25	0.9	No Staining	No Odor	40.19101756	-104.709207	NA	No
WHS-W01@3"	11/29/23	0.25	0.8	No Staining	No Odor	40.19101777	-104.7093187	NA	No
BACKGROUND SOIL SAMPLING									
BG01@3'	11/29/23	3	0.3	No Staining	No Odor	40.19114827	-104.7092189	NA	Yes
BG01@6'	11/29/23	6	0.1	No Staining	No Odor	40.19114827	-104.7092189	NA	Yes
BG02@3'	11/29/23	3	0.3	No Staining	No Odor	40.19088362	-104.7092014	NA	Yes
BG02@6'	11/29/23	6	0.9	No Staining	No Odor	40.19088362	-104.7092014	NA	Yes
BG03@3'	11/29/23	3	0.8	No Staining	No Odor	40.19101567	-104.7090853	0.9	Yes
BG03@6'	11/29/23	6	1.0	No Staining	No Odor	40.19101567	-104.7090853	0.9	Yes
BG04@3'	11/29/23	3	0.9	No Staining	No Odor	40.19101752	-104.7094478	NA	Yes
BG04@6'	11/29/23	6	1.0	No Staining	No Odor	40.19101752	-104.7094478	NA	Yes

**Notes:**

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

GPS = Global positioning system

PDOP = Position dilution of precision

NA = Not applicable; GPS data not available

**TABLE 2**  
**CAMP 30-14J WELLHEAD**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	2	500			30	27
WH-B01@6'	11/29/23	<0.00200	0.0310	0.00946	0.152	<b>0.014</b>	8.97	<25.0	<100	<b>0.0584</b>	<b>0.0477</b>

Notes:  
(1) Standards for soil are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 202:  
(2) Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effecdtive January 15, 202:  
ECMC = Colorado Energy and Carbon Management Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit  
mg/kg = Milligrams per kilogram  
TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics  
TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics  
TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics  
1,2,4 - TMB = 1,2,4 - Trimethylbenzene  
1,3,5 - TMB = 1,3,5 - Trimethylbenzene  
**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards



**TABLE 3**  
**CAMP 30-14J WELLHEAD**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	0.0038	1.3
ECMC standards for soil (mg/kg) <sup>(2)</sup>		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180
WH-B01@6'	11/29/23	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<b>0.020</b>	<b>0.041</b>	<b>0.014</b>	<0.020

Notes:  
(1) Standards for soil 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 = Colorado Energy and Carbon Management Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit  
mg/kg = Milligrams per kilogram  
Benzo(a)A = Benzo(a)anthracene  
Benzo(b)F = Benzo(b)fluoranthene  
Benzo(k)F = Benzo(k)fluoranthene  
Benzo(a)P = Benzo(a)pyrene  
D (a,h) A = Dibenzo(a,h)anthracene  
1,2,3-CD = Indeno(1,2,3-cd)pyrene  
1-M = 1-Methylnaphthalene  
2-M = 2-Methylnaphthalene  
**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards



**TABLE 4**  
**CAMP 30-14J WELLHEAD**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - METALS**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	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)
ECMC standards for soil (mg/kg) <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits			1,9875	89.625	ND	ND	6.675	13.5	7.8125	0.3575	ND	30.25
WH-B01@6'	11/29/23	6	<b>0.779*</b>	39.3	<0.25	<0.244	3.55	10.4	2.8	<0.25	<0.25	13.7
BACKGROUND SOIL SAMPLING												
BG01@3'	11/29/23	3	0.916	38	<0.25	<0.244	3.12	4.09	3.23	<0.25	<0.25	14.5
BG01@6'	11/29/23	6	1.3	52.1	<0.25	<0.244	3.36	4.15	4.08	<0.25	<0.25	18.3
BG02@3'	11/29/23	3	1.27	43.2	<0.25	<0.244	5.29	10.8	5.12	0.278	<0.25	24.2
BG02@6'	11/29/23	6	1.37	71.7	<0.25	<0.244	4.66	5.52	6.24	0.26	<0.25	23.2
BG03@3'	11/29/23	3	1.59	55	<0.25	<0.244	5.34	10.4	5.26	0.281	<0.25	22.9
BG03@6'	11/29/23	6	1.5	59.2	<0.25	<0.244	4.2	6.2	5	0.274	<0.25	20.4
BG04@3'	11/29/23	3	1.1	54.4	<0.25	<0.244	3.68	4.79	4.59	0.286	<0.25	20.9
BG04@6'	11/29/23	6	0.934	53.6	<0.25	<0.244	3.26	4.47	4.17	<0.25	<0.25	16.1

**Notes:**

(1) Standards for soil 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 = Colorado Energy and Carbon Management Commission

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

mg/kg = Milligrams per kilogram

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards

\* Result exceeded the COGCC Table 915-1 standard, but was within the range of site-specific background concentrations x 1.2!

*Italics* = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard

**TABLE 5**  
**CAMP 30-14J WELLHEAD**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC standards for soil (mg/kg) <sup>(1)</sup>			6 - 8.3	< 6	< 4	2
Site-Specific Background Limits			7.01 - 8.25	0.564	0.784	0.262
WH-B01@6'	11/29/23	6	8.10	0.628	0.419	0.107
BACKGROUND SOIL SAMPLING						
BG01@3'	11/29/23	3	7.25	0.189	0.109	<0.0999
BG01@6'	11/29/23	6	7.06	0.217	0.0510	<0.100
BG02@3'	11/29/23	3	8.15	0.103	0.428	0.123
BG02@6'	11/29/23	6	8.05	0.564	0.784	0.262
BG03@3'	11/29/23	3	8.21	0.373	0.394	0.121
BG03@6'	11/29/23	6	8.17	0.501	0.411	0.169
BG04@3'	11/29/23	3	7.01	0.490	0.0593	<0.101
BG04@6'	11/29/23	6	8.25	0.241	0.191	<0.100

**Notes:**

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

ECMC = Colorado Energy and 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 Adsorption Ratio

EC = Electrical Conductivity

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards



SITE_NAME	SAMPLE_ID_	Latitude	Longitude
Camp 30-14J	WH-NW	40.19103421460	-104.70928340400
Camp 30-14J	WH-NE	40.19103425580	-104.70924175800
Camp 30-14J	WH-SW	40.19100432000	-104.70928410200
Camp 30-14J	WH-SE	40.19100304500	-104.70924094100

December 14, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - Camp 30-14J**

**Project Number - [none]**

Attached are your analytical results for KMG - Camp 30-14J received by Origins Laboratory, Inc. November 29, 2023. This project is associated with Origins project number Y311657-01.

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





Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y311657-01	Soil	November 29, 2023 10:08	11/29/2023 13:40
BG01@3'	Y311657-02	Soil	November 29, 2023 10:26	11/29/2023 13:40
BG01@6'	Y311657-03	Soil	November 29, 2023 10:28	11/29/2023 13:40
BG02@3'	Y311657-04	Soil	November 29, 2023 10:30	11/29/2023 13:40
BG02@6'	Y311657-05	Soil	November 29, 2023 10:32	11/29/2023 13:40
BG03@3'	Y311657-06	Soil	November 29, 2023 10:34	11/29/2023 13:40
BG03@6'	Y311657-07	Soil	November 29, 2023 10:36	11/29/2023 13:40
BG04@3'	Y311657-08	Soil	November 29, 2023 10:38	11/29/2023 13:40
BG04@6'	Y311657-09	Soil	November 29, 2023 10:40	11/29/2023 13:40

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.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

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Initials: MS page 1 of 1

**ORIGINS** LABORATORY, INC

Client: Dry/Tasman Project Manager: Andy Sagen

Address: 6855 W 119th Ave. Project Name: CAMP 30-14J  
Broomfield, CO 80020

Telephone Number: 720-939-5611 Project Number: 4311657

Email Address: dry@tasmanlaboratory.com Samples Collected By: S. Dwyer, W. Tracy

Method of Delivery (Circle One): Hand Delivered Pickup/Dropoff: Drop Location: Box Drop Service Center Drop Field, US

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Parameters
W1H-B10206	11-29-23	1008	3	X	Soil	Full Table 313	Full Table 313
B10123		1026	2		Soil	Full Table 313	Full Table 313
B101026		1028			Soil	Full Table 313	Full Table 313
B102026		1030			Soil	Full Table 313	Full Table 313
B102026		1032			Soil	Full Table 313	Full Table 313
B103026		1034			Soil	Full Table 313	Full Table 313
B103026		1036			Soil	Full Table 313	Full Table 313
B104026		1038			Soil	Full Table 313	Full Table 313
B104026		1040			Soil	Full Table 313	Full Table 313
Relinquished By: <u>S. Dwyer</u>	Date: <u>11-29-23</u>	Time: <u>1040</u>					
Relinquished By:	Date:	Time:					
Received By:	Date:	Time:					
Received By:	Date:	Time:					
Turnaround Time:	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>					
Standard <input type="checkbox"/>							

12 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4311657

Client: Tasman

Client Project ID: Camp 30-14J

Checklist Completed by: EHS

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/29/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 112 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 11/29/23

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.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

WH-B01@6'

11/29/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.107	0.0986	mg/L	1	B3K3011	11/30/2023	12/02/2023	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K2901	11/29/2023	11/29/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.8 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0548	0.00200	mg/kg	1	B3K2924	11/29/2023	11/29/2023	
1,3,5-Trimethylbenzene	0.0477	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00946	0.00200	"	"	"	"	"	
Toluene	0.0310	0.00200	"	"	"	"	"	
Xylenes, total	0.162	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.97	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	94.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

WH-B01@6'

11/29/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.19	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.748	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.020	0.002	mg/kg	1	B3K2923	11/29/2023	11/30/2023
2-Methylnaphthalene	0.041	0.002	"	"	"	"	"
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 (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	0.014	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	U
Surrogate: Fluorene-d10	105 %	60-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

WH-B01@6'

11/29/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311657-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	87.9 %		60-130			B3K2923	11/29/2023	11/30/2023	
Surrogate: Pyrene-d10	93.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.10			pH Units	1	B3K3014	11/30/2023	12/01/2023	
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**SAR by 20B Saturated Paste**

SAR	0.628		0.0100	SAR	1	B3K3008	11/30/2023	12/03/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.419		0.00500	mmhos/cm	1	B3K3014	11/30/2023	12/01/2023	
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**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720766	11/29/2023	12/06/2023	
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**Total Metals by 6020B**

Arsenic	0.779	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Barium	39.3	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023	
Copper	3.55	0.25	0.25	"	"	"	"	12/10/2023	

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

WH-B01@6'

11/29/2023 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y311657-01 (Soil)

## Total Metals by 6020B

Lead	10.4	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Nickel	2.8	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	ND	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	13.7	2.5	2.5	"	"	"	"	12/10/2023	

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG01@3'

11/29/2023 10:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y311657-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND	0.0999	mg/L	1	B3K3011	11/30/2023	12/02/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.25		pH Units	1	B3K3014	11/30/2023	12/01/2023
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**SAR by 20B Saturated Paste**

SAR	0.189	0.0100	SAR	1	B3K3008	11/30/2023	12/03/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.109	0.00500	mmhos/cm	1	B3K3014	11/30/2023	12/01/2023
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**Total Metals by 6020B**

Arsenic	0.916	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	38	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG01@3'

11/29/2023 10:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y311657-02 (Soil)

**Total Metals by 6020B**

Copper	3.12	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Lead	4.09	0.25	0.25	"	"	"	"	"	
Nickel	3.23	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	ND	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	14.5	2.5	2.5	"	"	"	"	12/10/2023	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG01@6'

11/29/2023 10:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3K3011	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.06		pH Units	1	B3K3014	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.217	0.0100	SAR	1	B3K3008	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0510	0.00500	mmhos/cm	1	B3K3014	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	1.3	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	52.1	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG01@6'

11/29/2023 10:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y311657-03 (Soil)

**Total Metals by 6020B**

Copper	3.36	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Lead	4.15	0.25	0.25	"	"	"	"	"	
Nickel	4.08	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	ND	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	18.3	2.5	2.5	"	"	"	"	12/10/2023	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG02@3'

11/29/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y311657-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.123		0.100	mg/L	1	B3K3011	11/30/2023	12/02/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.73		0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.15			pH Units	1	B3K3014	11/30/2023	12/01/2023
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**SAR by 20B Saturated Paste**

SAR	0.103		0.0100	SAR	1	B3K3008	11/30/2023	12/03/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.428		0.00500	mmhos/cm	1	B3K3014	11/30/2023	12/01/2023
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**Total Metals by 6020B**

Arsenic	1.27	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	43.2	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023
Copper	5.29	0.25	0.25	"	"	"	"	12/10/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG02@3'

11/29/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y311657-04 (Soil)

**Total Metals by 6020B**

Lead	10.8	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Nickel	5.12	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	0.278	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	24.2	2.5	2.5	"	"	"	"	12/10/2023	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG02@6'

11/29/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.262	0.0995	mg/L	1	B3K3011	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	4.73	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	2.05	0.823	"	"	"	"	"
Sodium	1.04	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.05	pH Units	1	B3K3014	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.564	0.0100	SAR	1	B3K3008	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.784	0.00500	mmhos/cm	1	B3K3014	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	1.37	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	71.7	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023
Copper	4.66	0.25	0.25	"	"	"	"	12/10/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG02@6'

11/29/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y311657-05 (Soil)

## Total Metals by 6020B

Lead	5.52	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Nickel	6.24	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	0.26	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	23.2	2.5	2.5	"	"	"	"	12/10/2023	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG03@3'

11/29/2023 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.121	0.0982	mg/L	1	B3K3012	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.55	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.459	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.21	pH Units	1	B3K3015	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.373	0.0100	SAR	1	B3K3009	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.394	0.00500	mmhos/cm	1	B3K3015	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	1.59	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	55	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023
Copper	5.34	0.25	0.25	"	"	"	"	12/10/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG03@3'

11/29/2023 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y311657-06 (Soil)

## Total Metals by 6020B

Lead	10.4	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Nickel	5.26	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	0.281	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	22.9	2.5	2.5	"	"	"	"	12/10/2023	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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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.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG03@6'

11/29/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-07 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.169	0.101	mg/L	1	B3K3012	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.56	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.620	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.17	pH Units	1	B3K3015	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.501	0.0100	SAR	1	B3K3009	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.411	0.00500	mmhos/cm	1	B3K3015	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	1.5	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	59.2	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023
Copper	4.2	0.25	0.25	"	"	"	"	12/10/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG03@6'

11/29/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y311657-07 (Soil)

## Total Metals by 6020B

Lead	6.2	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Nickel	5	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	0.274	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	20.4	2.5	2.5	"	"	"	"	12/10/2023	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG04@3'

11/29/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-08 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3K3012	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.01		pH Units	1	B3K3015	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.490	0.0100	SAR	1	B3K3009	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0593	0.00500	mmhos/cm	1	B3K3015	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	1.1	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	54.4	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG04@3'

11/29/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y311657-08 (Soil)

**Total Metals by 6020B**

Copper	3.68	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Lead	4.79	0.25	0.25	"	"	"	"	"	
Nickel	4.59	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	0.286	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	20.9	2.5	2.5	"	"	"	"	12/10/2023	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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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.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG04@6'

11/29/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311657-09 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3K3012	11/30/2023	12/02/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.20	0.499	meq/L	10	[CALC]	11/30/2023	12/03/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.25		pH Units	1	B3K3015	11/30/2023	12/01/2023
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## SAR by 20B Saturated Paste

SAR	0.241	0.0100	SAR	1	B3K3009	11/30/2023	12/03/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.191	0.00500	mmhos/cm	1	B3K3015	11/30/2023	12/01/2023
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## Total Metals by 6020B

Arsenic	0.934	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023
Barium	53.6	0.25	0.25	"	"	"	"	"
Cadmium	ND	0.25	0.25	"	"	"	"	12/13/2023

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

BG04@6'

11/29/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y311657-09 (Soil)**

**Total Metals by 6020B**

Copper	3.26	0.25	0.25	mg/Kg	5	L719898	12/01/2023	12/10/2023	
Lead	4.47	0.25	0.25	"	"	"	"	"	
Nickel	4.17	0.25	0.25	"	"	"	"	12/13/2023	
Selenium	ND	0.25	0.25	"	"	"	"	12/10/2023	
Silver	ND	0.25	0.25	"	"	"	"	12/13/2023	
Zinc	16.1	2.5	2.5	"	"	"	"	12/10/2023	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L720768	11/29/2023	12/06/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K2901 - EPA 3550B										
Blank (B3K2901-BLK1)					Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K2901 - EPA 3550B

### LCS (B3K2901-BS1)

Prepared: 11/29/2023 Analyzed: 11/29/2023

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K2901 - EPA 3550B										
<b>Matrix Spike (B3K2901-MS1)</b>		<b>Source: Y311654-01</b>			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	526	63.6	70-130			QM-07
Residual Range Organics (C28-C40)	992	200	"	1000	115	87.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K2901 - EPA 3550B

Matrix Spike Dup (B3K2901-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Diesel (C10-C28)	1280	50.0	mg/kg	1000	526	75.8	70-130	9.94	35	
Residual Range Organics (C28-C40)	1260	200	"	1000	115	114	70-130	23.5	35	
Surrogate: o-Terphenyl	49		"	49.8		99.5	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K2924 - EPA 5030 (soil)										
Blank (B3K2924-BLK1)					Prepared: 11/29/2023 Analyzed: 11/29/2023					
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	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K2924 - EPA 5030 (soil)</b>										
<b>LCS (B3K2924-BS1)</b>					Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	0.0854	0.00200	mg/kg	0.100		85.4	70-130			
1,3,5-Trimethylbenzene	0.0853	0.00200	"	0.100		85.3	70-130			
Benzene	0.0886	0.00200	"	0.100		88.6	70-130			
Ethylbenzene	0.0883	0.00200	"	0.100		88.3	70-130			
Naphthalene	0.0892	0.00380	"	0.100		89.2	70-130			
Toluene	0.0806	0.00200	"	0.100		80.6	70-130			
o-Xylene	0.0946	0.00200	"	0.100		94.6	70-130			
m,p-Xylene	0.173	0.00400	"	0.200		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K2924 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K2924-MS1)</b>		<b>Source: Y311654-01</b>			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	0.418	0.00200	mg/kg	0.100	0.148	269	70-130			QM-07
1,3,5-Trimethylbenzene	0.383	0.00200	"	0.100	0.0926	290	70-130			QM-07
Benzene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
Ethylbenzene	0.137	0.00200	"	0.100	0.00714	130	70-130			
Naphthalene	0.152	0.00380	"	0.100	0.0288	123	70-130			
Toluene	0.147	0.00200	"	0.100	0.00774	139	70-130			QM-07
o-Xylene	0.313	0.00200	"	0.100	0.0408	272	70-130			QM-07
m,p-Xylene	0.822	0.00400	"	0.200	0.118	352	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		120	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K2924 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K2924-MSD1)</b>		<b>Source: Y311654-01</b>			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1,2,4-Trimethylbenzene	0.290	0.00200	mg/kg	0.100	0.148	142	70-130	36.0	20	QM-07
1,3,5-Trimethylbenzene	0.216	0.00200	"	0.100	0.0926	124	70-130	55.6	20	QR-02
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130	6.10	20	
Ethylbenzene	0.109	0.00200	"	0.100	0.00714	102	70-130	22.8	20	QR-02
Naphthalene	0.143	0.00380	"	0.100	0.0288	114	70-130	6.09	20	
Toluene	0.105	0.00200	"	0.100	0.00774	97.1	70-130	33.3	20	QR-02
o-Xylene	0.177	0.00200	"	0.100	0.0408	136	70-130	55.6	20	QM-07
m,p-Xylene	0.403	0.00400	"	0.200	0.118	143	70-130	68.5	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

**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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**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 B3K2923 - EPA 3580**

**Blank (B3K2923-BLK1)**

Prepared: 11/29/2023 Analyzed: 11/29/2023

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		103	60-130			
Surrogate: Anthracene-d10	170		"	200		86.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

**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 B3K2923 - EPA 3580**

**LCS (B3K2923-BS1)**

Prepared: 11/29/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		95.2	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200		91.5	70-130
Acenaphthene	0.184	0.020	"	0.200		92.1	70-130
Anthracene	0.170	0.020	"	0.200		85.1	70-130
Benzo (a) anthracene	0.161	0.005	"	0.200		80.5	70-130
Benzo (a) pyrene	0.183	0.020	"	0.200		91.6	70-130
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.6	70-130
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.5	70-130
Chrysene	0.177	0.020	"	0.200		88.5	70-130
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.6	70-130
Fluoranthene	0.172	0.020	"	0.200		85.8	70-130
Fluorene	0.185	0.020	"	0.200		92.7	70-130
Indeno (1,2,3-cd) pyrene	0.172	0.020	"	0.200		86.0	70-130
Naphthalene	0.187	0.002	"	0.200		93.7	70-130
Phenanthrene	0.169	0.020	"	0.200		84.4	70-130
Pyrene	0.167	0.020	"	0.200		83.4	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	170		"	200		86.7	60-130
Surrogate: Pyrene-d10	190		"	200		95.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130

**Matrix Spike (B3K2923-MS1)**

**Source: Y311654-01**

Prepared: 11/29/2023 Analyzed: 11/29/2023

1-Methylnaphthalene	0.228	0.002	mg/kg	0.200	0.075	76.6	70-130
2-Methylnaphthalene	0.274	0.002	"	0.200	0.160	56.7	70-130
Acenaphthene	0.193	0.020	"	0.200	0.011	90.6	70-130
Anthracene	0.163	0.020	"	0.200	0.002	80.2	70-130

QM-07

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Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

**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 B3K2923 - EPA 3580**

Matrix Spike (B3K2923-MS1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Benzo (a) anthracene	0.171	0.005	mg/kg	0.200	0.004	83.4	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	ND	95.0	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.0009	95.4	70-130			
Benzo (k) fluoranthene	0.161	0.020	"	0.200	ND	80.4	70-130			
Chrysene	0.174	0.020	"	0.200	0.002	85.9	70-130			
Dibenz (a,h) anthracene	0.178	0.020	"	0.200	ND	89.1	70-130			
Fluoranthene	0.181	0.020	"	0.200	0.0005	90.4	70-130			
Fluorene	0.201	0.020	"	0.200	0.016	92.5	70-130			
Indeno (1,2,3-cd) pyrene	0.165	0.020	"	0.200	ND	82.3	70-130			
Naphthalene	0.210	0.002	"	0.200	0.037	86.7	70-130			
Phenanthrene	0.177	0.020	"	0.200	0.015	81.2	70-130			
Pyrene	0.172	0.020	"	0.200	0.0006	85.6	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		87.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

Matrix Spike Dup (B3K2923-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	0.075	71.7	70-130	4.40	20	
2-Methylnaphthalene	0.245	0.002	"	0.200	0.160	42.3	70-130	11.1	20	QM-07
Acenaphthene	0.193	0.020	"	0.200	0.011	90.6	70-130	0.0696	20	
Anthracene	0.180	0.020	"	0.200	0.002	88.8	70-130	10.0	20	
Benzo (a) anthracene	0.176	0.005	"	0.200	0.004	85.8	70-130	2.78	20	
Benzo (a) pyrene	0.185	0.020	"	0.200	ND	92.3	70-130	3.09	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	ND	96.8	70-130	1.88	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.0009	101	70-130	5.21	20	

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Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

**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 B3K2923 - EPA 3580**

Matrix Spike Dup (B3K2923-MSD1)		Source: Y311654-01			Prepared: 11/29/2023 Analyzed: 11/29/2023					
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	ND	93.0	70-130	14.6	20	
Chrysene	0.182	0.020	"	0.200	0.002	89.6	70-130	4.14	20	
Dibenz (a,h) anthracene	0.187	0.020	"	0.200	ND	93.5	70-130	4.90	20	
Fluoranthene	0.186	0.020	"	0.200	0.0005	92.6	70-130	2.39	20	
Fluorene	0.197	0.020	"	0.200	0.016	90.7	70-130	1.78	20	
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200	ND	84.9	70-130	3.04	20	
Naphthalene	0.210	0.002	"	0.200	0.037	86.5	70-130	0.244	20	
Phenanthrene	0.178	0.020	"	0.200	0.015	81.5	70-130	0.341	20	
Pyrene	0.168	0.020	"	0.200	0.0006	83.9	70-130	2.07	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	170		"	200		86.8	60-130			
Surrogate: Pyrene-d10	180		"	200		91.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K3008 - Saturated Paste Metals

##### Blank (B3K3008-BLK1)

Prepared: 11/30/2023 Analyzed: 12/03/2023

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

##### Duplicate (B3K3008-DUP1)

Source: Y311654-02

Prepared: 11/30/2023 Analyzed: 12/03/2023

Calcium PPM	16.7	10.0	mg/L	13.1	23.9	50
SAR	ND	0.0100	SAR	0.199	200	
Magnesium PPM	4.28	10.0	mg/L	3.31	25.6	50
Sodium PPM	5.36	10.0	"	3.12	52.8	50 QR-DUP

#### Batch B3K3009 - Saturated Paste Metals

##### Blank (B3K3009-BLK1)

Prepared: 11/30/2023 Analyzed: 12/03/2023

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 (B3K3009-DUP1)

Source: Y311657-06

Prepared: 11/30/2023 Analyzed: 12/03/2023

Calcium PPM	51.0	10.0	mg/L	51.1	0.157	50
SAR	ND	0.0100	SAR	0.373	200	
Magnesium PPM	5.57	10.0	mg/L	5.74	3.01	50
Sodium PPM	10.1	10.0	"	10.6	4.75	50

#### Batch B3K3011 - DTPA Sorbitol Preparation

##### Blank (B3K3011-BLK1)

Prepared: 11/30/2023 Analyzed: 12/02/2023

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Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K3011 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3K3011-BLK1)</b>					Prepared: 11/30/2023 Analyzed: 12/02/2023					
Boron	ND	0.100	mg/L							
<b>Duplicate (B3K3011-DUP1)</b>					<b>Source: Y311654-01</b> Prepared: 11/30/2023 Analyzed: 12/02/2023					
Boron	0.281	0.100	mg/L		0.257			8.86	50	
<b>Batch B3K3012 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3K3012-BLK1)</b>					Prepared: 11/30/2023 Analyzed: 12/02/2023					
Boron	ND	0.100	mg/L							
<b>Duplicate (B3K3012-DUP1)</b>					<b>Source: Y311657-06</b> Prepared: 11/30/2023 Analyzed: 12/02/2023					
Boron	0.131	0.101	mg/L		0.121			7.96	50	

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Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 B3K3014 - Saturated Paste pH/EC

#### Blank (B3K3014-BLK1)

Prepared: 11/30/2023 Analyzed: 12/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3K3014-DUP1)

Source: Y311654-02

Prepared: 11/30/2023 Analyzed: 12/01/2023

Specific Conductance (EC)	0.163	0.00500	mmhos/cm	0.113	36.1	25	QR-DUP
pH	7.38		pH Units	7.11	3.73	25	

### Batch B3K3015 - Saturated Paste pH/EC

#### Blank (B3K3015-BLK1)

Prepared: 11/30/2023 Analyzed: 12/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3K3015-DUP1)

Source: Y311657-06

Prepared: 11/30/2023 Analyzed: 12/01/2023

Specific Conductance (EC)	0.385	0.00500	mmhos/cm	0.394	2.13	25	
pH	8.20		pH Units	8.21	0.122	25	

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Project Number: [none]  
Project: KMG - Camp 30-14J

## 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
<b>Batch L720766 -</b>										
<b>DUP (L 97297-DUP)</b>	<b>Source: 97297</b>				Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		97297	-		0	20	
<b>MS (L 97297-MS)</b>	<b>Source: 97297</b>				Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	32.3	2.5	mg/Kg	39.3	97297	82	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	6.49	0.5	mg/Kg	8		81	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L719898 - 3050B</b>										
<b>MSD (L 97383-MSD-L719898)</b>			<b>Source: 97383</b>		Prepared: 12/01/2023 Analyzed: 12/13/2023					
Selenium	5.63	1.25	mg/Kg	4.95	1.03	93	75-125	23.4	80	
Nickel	14.7	1.25	"	2.47	13.2	61	75-125	7.2	80	*
Silver	0.516	1.25	"	0.495	0.0461	95	75-125	1.5	80	
Barium	150	1.25	"	4.95	158	0	75-125	8.3	80	*
Zinc	74	12.5	"	24.7	51.4	91	75-125	8.6	80	
Copper	13.2	1.25	"	2.47	11.8	57	75-125	12	80	*
Cadmium	0.65	1.25	"	0.495	0.172	97	75-125	8.4	80	
Lead	11.1	1.25	"	2.47	9.47	66	75-125	4.4	80	*
Arsenic	6.28	1.25	"	2.47	4	92	75-125	1.4	80	
<b>MS (L 97383-MS-L719898)</b>			<b>Source: 97383</b>		Prepared: 12/01/2023 Analyzed: 12/13/2023					
Silver	0.508	1.25	mg/Kg	0.463	0.0461	100	75-125			
Zinc	80.7	12.5	"	23.1	51.4	127	75-125			*
Arsenic	6.19	1.25	"	2.31	4	95	75-125			
Selenium	4.45	1.25	"	4.63	1.03	74	75-125			*
Nickel	15.8	1.25	"	2.31	13.2	112	75-125			
Barium	163	1.25	"	4.63	158	108	75-125			
Cadmium	0.707	1.25	"	0.463	0.172	116	75-125			
Copper	14.9	1.25	"	2.31	11.8	134	75-125			*
Lead	11.6	1.25	"	2.31	9.47	92	75-125			
<b>LCS (LCS-L719898)</b>			Prepared: 12/01/2023 Analyzed: 12/10/2023							
Selenium	4.34	0.25	mg/Kg	5		87	80-120			
Nickel	2.42	0.25	"	2.5		97	80-120			
Silver	0.494	0.25	"	0.5		99	80-120			
Barium	4.67	0.25	"	5		93	80-120			
Cadmium	0.471	0.25	"	0.5		94	80-120			

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Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L719898 - 3050B

#### LCS (LCS-L719898)

Prepared: 12/01/2023 Analyzed: 12/10/2023

Lead	2.33	0.25	mg/Kg	2.5		93	80-120			
Copper	2.36	0.25	"	2.5		94	80-120			
Arsenic	2.25	0.25	"	2.5		90	80-120			
Zinc	22.3	2.5	"	25		89	80-120			

#### LRB (LRB-L719898)

Prepared: 12/01/2023 Analyzed: 12/10/2023

Barium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Copper	ND	0.25	"				-			

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Project Number: [none]  
Project: KMG - Camp 30-14J

## 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 L720768 -										
<b>DUP (L 97348-DUP)</b>	<b>Source: Y311657-09</b>				Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		97348	-		0	20	
<b>MS (L 97348-MS)</b>	<b>Source: Y311657-09</b>				Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	32.6	2.5	mg/Kg	39.6	97348	82	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	6.98	0.5	mg/Kg	8		87	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 12/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Camp 30-14J

## Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

\* QC Failure

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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