

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**DORIS ACKERSON B 1 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	Groundwater Protection Values (GPV)	B01@7'	BG01	BG02	BG03	BG04
		2/22/2021	2/22/2021	2/22/2021	2/22/2021	2/22/2021
<b>Photoionization Detector Reading</b>						
PID (ppm)	NA	0.1	0.0	0.0	0.0	0.0
<b>Total Petroleum Hydrocarbons by USEPA Method 8015D</b>						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	NA	NA	NA	NA
<b>Soil Suitability for Reclamation</b>						
EC (mmhos/cm)	4	3.06	<b>4.89</b>	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (units)	6	3.63	2.84	NA	NA	NA
pH, Lab (pH units)	6-8.3	7.36	7.06	<b>NA</b>	<b>NA</b>	<b>NA</b>
Boron (mg/L)	2	<b>4.0</b>	<b>2.1</b>	NA	NA	NA
<b>Soil Suitability for Reclamation (GPV for Soil)</b>						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	NA	NA
Toluene (mg/kg)	0.69	<0.00200	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00600	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	NA	NA	NA	NA
Acenaphthene (mg/kg)	0.55	<0.00434	NA	NA	NA	NA
Anthracene (mg/kg)	5.8	<0.00434	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.011	<0.00434	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.3	<0.00434	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.9	<0.00434	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.24	<0.00434	NA	NA	NA	NA
Chrysene (mg/kg)	9	<0.00434	NA	NA	NA	NA
Fluoranthene (mg/kg)	8.9	<0.00434	NA	NA	NA	NA
Fluorene (mg/kg)	0.54	<0.00434	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.98	<0.00434	NA	NA	NA	NA
1-Methylnaphthalene (mg/kg)	0.006	<0.00434	NA	NA	NA	NA
2-Methylnaphthalene (mg/kg)	0.019	<0.00434	NA	NA	NA	NA
Naphthalene (mg/kg)	0.0038	<0.00434	NA	NA	NA	NA
Pyrene (mg/kg)	1.3	<0.00434	NA	NA	NA	NA
<b>Metals in Soils (GPV for Soil)</b>						
Arsenic (mg/Kg)	0.29	<b>4.18</b>	<b>3.28</b>	<b>3.16</b>	<b>3.42</b>	<b>3.79</b>
Barium (mg/Kg)	82	<b>173</b>	<b>255</b>	NA	NA	NA
Cadmium (mg/Kg)	0.38	0.362	0.345	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<1	<12.5	NA	NA	NA
Copper (mg/Kg)	46	13.6	16	NA	NA	NA
Lead (mg/Kg)	14	<b>14.9</b>	13.9	NA	NA	NA
Nickel (mg/Kg)	26	15.5	14	NA	NA	NA
Selenium (mg/Kg)	0.26	<b>0.585</b>	<b>0.559</b>	NA	NA	NA
Silver (mg/Kg)	0.8	0.0709	0.0833	NA	NA	NA
Zinc (mg/Kg)	370	57.2	67.7	NA	NA	NA

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**DORIS ACKERSON B 1 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	Groundwater Protection Values (GPV)	BGComp01	BG05	B02@10'	BG02@10'
		2/22/2021	3/5/2021	5/7/2021	5/7/2021
<b>Photoionization Detector Reading</b>					
PID (ppm)	NA	0.0	NA	0.1	0.0
<b>Total Petroleum Hydrocarbons by USEPA Method 8015D</b>					
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA
<b>Soil Suitability for Reclamation</b>					
EC (mmhos/cm)	4	NA	3.96	NA	3.15
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	<b>6.11</b>
Sodium Adsorption Ratio (units)	6	NA	<b>6.52</b>	NA	NA
pH, Lab (pH units)	6-8.3	NA	7.26	NA	7.21
Boron (mg/L)	2	NA	<b>2.9</b>	1.4	<b>2.4</b>
<b>Soil Suitability for Reclamation (GPV for Soil)</b>					
Benzene (mg/kg)	0.0026	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA
Acenaphthene (mg/kg)	0.55	NA	NA	NA	NA
Anthracene (mg/kg)	5.8	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.011	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.3	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.9	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.24	NA	NA	NA	NA
Chrysene (mg/kg)	9	NA	NA	NA	NA
Fluoranthene (mg/kg)	8.9	NA	NA	NA	NA
Fluorene (mg/kg)	0.54	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.98	NA	NA	NA	NA
1-Methylnaphthalene (mg/kg)	0.006	NA	NA	NA	NA
2-Methylnaphthalene (mg/kg)	0.019	NA	NA	NA	NA
Naphthalene (mg/kg)	0.0038	NA	NA	NA	NA
Pyrene (mg/kg)	1.3	NA	NA	NA	NA
<b>Metals in Soils (GPV for Soil)</b>					
Arsenic (mg/Kg)	0.29	<b>3.76</b>	<b>4.88</b>	NA	<b>3.54</b>
Barium (mg/Kg)	82	NA	<b>351</b>	NA	<b>194</b>
Cadmium (mg/Kg)	0.38	NA	0.255	NA	0.233
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	NA	<0.502
Copper (mg/Kg)	46	NA	13	NA	10.6
Lead (mg/Kg)	14	NA	11.8	9.61	8.8
Nickel (mg/Kg)	26	NA	13.7	NA	12.2
Selenium (mg/Kg)	0.26	NA	<b>0.314</b>	<b>0.281</b>	<b>0.377</b>
Silver (mg/Kg)	0.8	NA	0.0523	NA	0.0286
Zinc (mg/Kg)	370	NA	50.3	NA	38.3

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**DORIS ACKERSON B 1 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

**Notes:**

GPV - groundwater protection values  
mg/kg - milligrams per kilogram  
PID - Photoionization Detector  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics  
DRO - diesel range organics  
RRO - residual range organics

EC - electrical conductivity  
SAR - sodium adsorption ratio  
mmhos/cm - millimhos per centimeter  
<0.00200 - less than laboratory reporting limit  
NA - Not Applicable / Not Analyzed  
Bold indicates exceeds allowable level  
\*Allowable level for TPH is 500 mg/kg for combined GRO,  
DRO, and RRO

**TABLE 2**  
**PHOTOIONIZATION DETECTOR FIELD RESULTS**  
**DORIS ACKERSON B 1 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Screening Location	Location	Date	PID Reading (ppm)
N01@6'	Wellhead Excavation	2/22/2021	0.1
E01@6'	Wellhead Excavation	2/22/2021	1.2
S01@6'	Wellhead Excavation	2/22/2021	0.2
W01@6'	Wellhead Excavation	2/22/2021	0.1
B01@7'	Wellhead Excavation	2/22/2021	0.1
B02@10'	Wellhead Excavation	5/7/2021	0.1
BG01	Background	2/22/2021	0.0
BG02	Background	2/22/2021	0.0
BG03	Background	2/22/2021	0.0
BG04	Background	2/22/2021	0.0
BG Comp 01	Background	2/22/2021	0.0
BG05@7'	Background	3/5/2021	NA
BG02@10'	Background	5/7/2021	0.0
Pothole 1	Flowline Pothole	3/8/2021	0.1
Pothole 2	Flowline Pothole	3/8/2021	0.0
Pothole 3	Flowline Pothole	3/8/2021	0.0
Pothole 4	Flowline Pothole	3/8/2021	0.1

**Notes:**

- PID - Photoionization Detector
- ppm - parts per million
- NA - Not analyzed with PID; Sampled for inorganic parameters only.



TABLE 3  
GROUNDWATER ANALYTICAL AND FIELD RESULTS  
DORIS ACKERSON B 1  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>		<b>250,000</b>	<b>250,000</b>	
GW01	2/22/2021	<4.00	<4.00	<4.00	<4.00	<16.0	<4.00	<4.00	12,400,000	372,000	1,300,000	6

Notes: COGCC - Colorado Oil and Gas Conservation Commission      µg/L - micrograms per liter  
ft bgs - feet below ground surface      < - less than laboratory reporting limit  
NA - not analyzed/not available      Excavation groundwater depth is approximate  
NM - not measured  
Corrected Relative GW Elev. is used when LNAPL is present.  
**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 groundwater standards.



March 05, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Doris Ackerson B1

Project Number - TE105720031

Attached are your analytical results for KMG - Doris Ackerson B1 received by Origins Laboratory, Inc. February 22, 2021. This project is associated with Origins project number Y102392-01.

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

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@7'	Y102392-01	Soil	February 22, 2021 17:10	02/22/2021 18:50
BG01	Y102392-02	Soil	February 22, 2021 17:32	02/22/2021 18:50
BG02	Y102392-03	Soil	February 22, 2021 17:34	02/22/2021 18:50
BG03	Y102392-04	Soil	February 22, 2021 17:36	02/22/2021 18:50
BG04	Y102392-05	Soil	February 22, 2021 17:38	02/22/2021 18:50
BGComp01	Y102392-06	Soil	February 22, 2021 17:45	02/22/2021 18:50
GW01	Y102392-07	Water	February 22, 2021 17:30	02/22/2021 18:50

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

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

**Sample Receipt Checklist**

Origins Laboratory

Origins Work Order: Y102392 Client: WSP USA  
 Client Project ID: Doris Ackerson B1

Checklist Completed by: JG Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/Time completed: 2/22/21 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 4.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T003

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"/>			
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 2/22/21

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**B01@7'**  
**2/22/2021 5:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y102392-01 (Soil)**

**Boron (Sorbitol)**

Boron	4.0			mg/L	1	[none]	02/26/2021	03/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1B2214	02/22/2021	02/22/2021	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	58.0 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1B2213	02/22/2021	02/22/2021	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND		0.00400	"	"	"	"	"	Ua
o-Xylene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**B01@7'**  
**2/22/2021 5:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102392-01 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B1B22 13	02/22/2021	02/22/2021	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %		70-130			"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	17.49			me/L	1	[none]	02/26/2021	03/02/2021	
Magnesium	8.29			"	"	"	"	"	
Sodium	13.05			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00143	0.00434	mg/kg dry	1	2095602	02/25/2021	02/25/2021	U
2-Methylnaphthalene	ND	0.00143	0.00434	"	"	"	"	"	U
Acenaphthene	ND	0.00143	0.00434	"	"	"	"	"	U
Anthracene	ND	0.00143	0.00434	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00143	0.00434	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00143	0.00434	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00143	0.00434	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00143	0.00434	"	"	"	"	"	U
Chrysene	ND	0.00143	0.00434	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00143	0.00434	"	"	"	"	"	U

Origins Laboratory, Inc.



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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**B01@7'**

**2/22/2021 5:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y102392-01 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.00143	0.00434	mg/kg dry	1	2095602	02/25/2021	02/25/2021	U
Fluorene	ND	0.00143	0.00434	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00143	0.00434	"	"	"	"	"	U
Naphthalene	ND	0.00143	0.00434	"	"	"	"	"	U
Pyrene	ND	0.00143	0.00434	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 76 % 25-121 " " "

**pH in Soil by EPA 9045D**

pH	7.36			pH Units	1	B1B2315	02/23/2021	02/23/2021	
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**SAR by 20B Saturated Paste**

SAR	3.63				1	[none]	02/26/2021	03/02/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	3.06		0.00500	mmhos/cm	1	B1B2316	02/23/2021	02/23/2021	
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**Total Metals by 6020B**

Arsenic	4.18	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
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Origins Laboratory, Inc.



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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**B01@7'**

**2/22/2021 5:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y102392-01 (Soil)**

**Total Metals by 6020B**

Barium	173	0.41	2.5	mg/Kg	50	L538381	03/01/2021	03/01/2021	
Cadmium	0.362	0.0391	0.25	"	5	"	"	"	
Copper	13.6	0.118	0.25	"	"	"	"	"	
Lead	14.9	0.0115	0.25	"	"	"	"	"	
Nickel	15.5	0.0743	0.25	"	"	"	"	"	
Selenium	0.585	0.102	0.25	"	"	"	"	"	
Silver	0.0709	0.0025	0.25	"	"	"	"	"	J
Zinc	57.2	0.438	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L538872	02/22/2021	03/02/2021	
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**BG01**

**2/22/2021 5:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y102392-02 (Soil)**

**Boron (Sorbitol)**

Boron	2.1			mg/L	1	[none]	02/26/2021	03/02/2021	
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**Metals (Saturated Paste Prep)**

Calcium	42.46			me/L	1	[none]	"	03/02/2021	
Magnesium	19.79			"	"	"	"	"	
Sodium	15.86			"	"	"	"	"	

**pH in Soil by EPA 9045D**

pH	7.06			pH Units	1	B1B2315	02/23/2021	02/23/2021	
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**SAR by 20B Saturated Paste**

SAR	2.84				1	[none]	02/26/2021	03/02/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	4.89		0.00500	mmhos/cm	1	B1B2316	02/23/2021	02/23/2021	
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**Total Metals by 6020B**

Arsenic	3.28	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
Barium	255	0.41	2.5	"	50	"	"	"	
Cadmium	0.345	0.0391	0.25	"	5	"	"	"	
Copper	16	0.118	0.25	"	"	"	"	"	

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**BG01**

**2/22/2021 5:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y102392-02 (Soil)**

**Total Metals by 6020B**

Lead	13.9	0.0115	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
Nickel	14	0.0743	0.25	"	"	"	"	"	
Selenium	0.559	0.102	0.25	"	"	"	"	"	
Silver	0.0833	0.0025	0.25	"	"	"	"	"	J
Zinc	67.7	0.438	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	6.1	12.5	mg/Kg	25	L538872	02/22/2021	03/02/2021	
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Project: KMG - Doris Ackerson B1

**BG02**

**2/22/2021 5:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y102392-03 (Soil)**

**Total Metals by 6020B**

Arsenic	3.16	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
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**BG03**

**2/22/2021 5:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y102392-04 (Soil)

**Total Metals by 6020B**

Arsenic	3.42	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
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**BG04**

**2/22/2021 5:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y102392-05 (Soil)

**Total Metals by 6020B**

Arsenic	3.79	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
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**BGComp01**

**2/22/2021 5:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y102392-06 (Soil)

**Total Metals by 6020B**

Arsenic	3.76	0.0433	0.25	mg/Kg	5	L538381	03/01/2021	03/01/2021	
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**GW01**

**2/22/2021 5:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y102392-07 (Water)**

**Anions by EPA 300.0**

Chloride	372	6.70	20.0	mg/L	100	2095615	02/22/2021	02/25/2021	
Sulfate	1300	13.3	40.0	"	"	"	"	"	

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		4.00	ug/L	4	B1B2203	02/22/2021	02/23/2021	Ua
1,3,5-Trimethylbenzene	ND		4.00	"	"	"	"	"	Ua
Benzene	ND		4.00	"	"	"	"	"	Ua
Ethylbenzene	ND		4.00	"	"	"	"	"	Ua
Naphthalene	ND		16.0	"	"	"	"	"	Ua
Toluene	ND		4.00	"	"	"	"	"	Ua
Xylenes, total	ND		4.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	12400		5.00	mg/L	1	B1B2210	02/22/2021	02/23/2021	
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**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 B1B2203 - EPA 5030B (Water)**

**Blank (B1B2203-BLK1)**

Prepared: 02/22/2021 Analyzed: 02/22/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	1.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	4.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	58		"	62.5	92.8		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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**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 B1B2203 - EPA 5030B (Water)**

**LCS (B1B2203-BS1)**

Prepared: 02/22/2021 Analyzed: 02/22/2021

1,2,4-Trimethylbenzene	51.8	1.00	ug/L	50.0		104	70-130			
1,3,5-Trimethylbenzene	52.6	1.00	"	50.0		105	70-130			
Benzene	53.1	1.00	"	50.0		106	70-130			
Ethylbenzene	52.2	1.00	"	50.0		104	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	58.1	4.00	"	50.0		116	70-130			
o-Xylene	51.4	1.00	"	50.0		103	70-130			
Toluene	51.0	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 Project: KMG - Doris Ackerson B1

**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 B1B2203 - EPA 5030B (Water)**

<b>Matrix Spike (B1B2203-MS1)</b>	<b>Source: Y102366-21</b>			<b>Prepared: 02/22/2021 Analyzed: 02/22/2021</b>						
1,2,4-Trimethylbenzene	47.5	1.00	ug/L	50.0	0.600	93.9	70-130			
1,3,5-Trimethylbenzene	49.7	1.00	"	50.0	0.620	98.2	70-130			
Benzene	53.1	1.00	"	50.0	ND	106	70-130			
Ethylbenzene	48.3	1.00	"	50.0	ND	96.6	70-130			
m,p-Xylene	95.5	2.00	"	100	ND	95.5	70-130			
Naphthalene	58.6	4.00	"	50.0	ND	117	70-130			
o-Xylene	49.9	1.00	"	50.0	ND	99.8	70-130			
Toluene	46.8	1.00	"	50.0	ND	93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 Project: KMG - Doris Ackerson B1

**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 B1B2203 - EPA 5030B (Water)**

Matrix Spike Dup (B1B2203-MSD1)	Source: Y102366-21			Prepared: 02/22/2021 Analyzed: 02/22/2021						
1,2,4-Trimethylbenzene	50.2	1.00	ug/L	50.0	0.600	99.2	70-130	5.48	20	
1,3,5-Trimethylbenzene	49.4	1.00	"	50.0	0.620	97.5	70-130	0.727	20	
Benzene	51.7	1.00	"	50.0	ND	103	70-130	2.69	20	
Ethylbenzene	47.7	1.00	"	50.0	ND	95.4	70-130	1.23	20	
m,p-Xylene	96.6	2.00	"	100	ND	96.6	70-130	1.16	20	
Naphthalene	60.2	4.00	"	50.0	ND	120	70-130	2.79	20	
o-Xylene	49.4	1.00	"	50.0	ND	98.9	70-130	0.926	20	
Toluene	46.8	1.00	"	50.0	ND	93.6	70-130	0.107	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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**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 B1B2213 - EPA 5030 (soil)**

**Blank (B1B2213-BLK1)**

Prepared: 02/22/2021 Analyzed: 02/22/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
Naphthalene	ND	0.0100	"							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
m,p-Xylene	ND	0.00400	"							Ua
o-Xylene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.3	70-130			

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**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 B1B2213 - EPA 5030 (soil)**

**LCS (B1B2213-BS1)**

Prepared: 02/22/2021 Analyzed: 02/22/2021

1,2,4-Trimethylbenzene	0.0430	0.00200	mg/kg	0.0500		85.9	70-130			
Naphthalene	0.0482	0.0100	"	0.0500		96.4	70-130			
1,3,5-Trimethylbenzene	0.0430	0.00200	"	0.0500		86.0	70-130			
Benzene	0.0408	0.00200	"	0.0500		81.6	70-130			
Ethylbenzene	0.0429	0.00200	"	0.0500		85.7	70-130			
m,p-Xylene	0.0870	0.00400	"	0.100		87.0	70-130			
o-Xylene	0.0420	0.00200	"	0.0500		83.9	70-130			
Toluene	0.0418	0.00200	"	0.0500		83.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

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**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 B1B2213 - EPA 5030 (soil)

Matrix Spike (B1B2213-MS1)	Source: Y102373-01			Prepared: 02/22/2021 Analyzed: 02/22/2021						
1,2,4-Trimethylbenzene	0.0441	0.00200	mg/kg	0.0500	0.00884	70.5	70-130			
Naphthalene	0.0465	0.0100	"	0.0500	0.00150	89.9	70-130			
1,3,5-Trimethylbenzene	0.0422	0.00200	"	0.0500	0.00240	79.7	70-130			
Benzene	0.0414	0.00200	"	0.0500	ND	82.9	70-130			
Ethylbenzene	0.0417	0.00200	"	0.0500	0.000700	82.0	70-130			
m,p-Xylene	0.0847	0.00400	"	0.100	0.00264	82.1	70-130			
o-Xylene	0.0411	0.00200	"	0.0500	0.00118	79.8	70-130			
Toluene	0.0422	0.00200	"	0.0500	0.00112	82.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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**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 B1B2213 - EPA 5030 (soil)

Matrix Spike Dup (B1B2213-MSD1)	Source: Y102373-01			Prepared: 02/22/2021 Analyzed: 02/22/2021						
1,2,4-Trimethylbenzene	0.0435	0.00200	mg/kg	0.0500	0.00884	69.4	70-130	1.28	20	QM-07
Naphthalene	0.0488	0.0100	"	0.0500	0.00150	94.5	70-130	4.83	20	
1,3,5-Trimethylbenzene	0.0426	0.00200	"	0.0500	0.00240	80.4	70-130	0.849	20	
Benzene	0.0434	0.00200	"	0.0500	ND	86.7	70-130	4.53	20	
Ethylbenzene	0.0426	0.00200	"	0.0500	0.000700	83.8	70-130	2.18	20	
m,p-Xylene	0.0870	0.00400	"	0.100	0.00264	84.3	70-130	2.63	20	
o-Xylene	0.0418	0.00200	"	0.0500	0.00118	81.2	70-130	1.74	20	
Toluene	0.0442	0.00200	"	0.0500	0.00112	86.2	70-130	4.63	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 B1B2214 - EPA 3550B</b>										
<b>Blank (B1B2214-BLK1)</b>										
					Prepared: 02/22/2021 Analyzed: 02/22/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	35		"	50.0		70.5	50-150			

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 B1B2214 - EPA 3550B**

**LCS (B1B2214-BS1)**

Prepared: 02/22/2021 Analyzed: 02/22/2021

Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.7	50-150			

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 B1B2214 - EPA 3550B**

<b>Matrix Spike (B1B2214-MS1)</b>	<b>Source: Y102373-01</b>			Prepared: 02/22/2021 Analyzed: 02/22/2021						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	44.6	108	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.4	50-150			

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 B1B2214 - EPA 3550B**

<b>Matrix Spike Dup (B1B2214-MSD1)</b>	<b>Source: Y102373-01</b>			Prepared: 02/22/2021 Analyzed: 02/22/2021						
Diesel (C10-C28)	1130	50.0	mg/kg	1000	44.6	109	70-130	0.984	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	0.253	35	
Surrogate: o-Terphenyl	49		"	50.0		97.9	50-150			

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 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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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**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 B1B2210 - NO PREP**

**Blank (B1B2210-BLK1)**

Prepared: 02/22/2021 Analyzed: 02/23/2021

Total Dissolved Solids ND 5.00 mg/L

**LCS (B1B2210-BS1)**

Prepared: 02/22/2021 Analyzed: 02/23/2021

Total Dissolved Solids 779 5.00 mg/L 716 109 85-115

**Duplicate (B1B2210-DUP1)**

**Source: Y102305-01**

Prepared: 02/22/2021 Analyzed: 02/23/2021

Total Dissolved Solids 2550 5.00 mg/L 2550 0.118 20

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1B2315 - NO PREP</b>										
<b>Duplicate (B1B2315-DUP1)</b>		<b>Source: Y102390-02</b>			Prepared: 02/23/2021 Analyzed: 02/23/2021					
pH	6.97		pH Units		6.97			0.00	25	
<b>Batch B1B2316 - NO PREP</b>										
<b>Blank (B1B2316-BLK1)</b>					Prepared: 02/23/2021 Analyzed: 02/23/2021					
Specific Conductance (EC)	0.00440	0.00500	mmhos/cm							
<b>Duplicate (B1B2316-DUP1)</b>		<b>Source: Y102390-02</b>			Prepared: 02/23/2021 Analyzed: 02/23/2021					
Specific Conductance (EC)	1.27	0.00500	mmhos/cm		1.23			2.94	25	

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 L538381 - 3050B**

<b>MSD (L 85845-MSD-L538381)</b>		<b>Source: Y102392-06</b>			<b>Prepared: 03/01/2021 Analyzed: 03/01/2021</b>					
Selenium	4.71	0.102	mg/Kg	4.69	2.07	56	75-125	4.3	80	*
Nickel	16.2	0.0743	"	2.35	13.7	107	75-125	5.9	80	
Lead	22.6	0.0115	"	2.35	20.8	77	75-125	2.6	80	
Copper	19	0.118	"	2.35	16.5	107	75-125	5.6	80	
Cadmium	0.768	0.0391	"	0.469	0.353	88	75-125	14.3	80	
Arsenic	5.6	0.0433	"	2.35	3.76	78	75-125	1.2	80	
Silver	0.635	0.0025	"	0.469	0.177	135	75-125	0.7	80	*
Zinc	80.4	0.438	"	23.5	67.1	57	75-125	6.3	80	*
Barium	144	0.164	"	4.69	137	149	75-125	4.2	80	*

<b>MS (L 85845-MS-L538381)</b>		<b>Source: Y102392-06</b>			<b>Prepared: 03/01/2021 Analyzed: 03/02/2021</b>					
Barium	138	0.164	mg/Kg	4.73	137	21	75-125			*
Arsenic	5.53	0.0433	"	2.36	3.76	75	75-125			
Cadmium	0.887	0.0391	"	0.473	0.353	113	75-125			
Copper	20.1	0.118	"	2.36	16.5	152	75-125			*
Lead	23.2	0.0115	"	2.36	20.8	102	75-125			
Nickel	17.2	0.0743	"	2.36	13.7	148	75-125			*
Selenium	4.92	0.102	"	4.73	2.07	60	75-125			*
Silver	0.64	0.0025	"	0.473	0.177	135	75-125			*
Zinc	85.7	0.438	"	23.6	67.1	79	75-125			

<b>LCS (LCS-L538381)</b>		<b>Prepared: 03/01/2021 Analyzed: 03/05/2021</b>								
Selenium	5.14	0.102	mg/Kg	5		103	80-120			
Nickel	2.56	0.0743	"	2.5		102	80-120			
Lead	2.37	0.0115	"	2.5		95	80-120			
Copper	2.45	0.118	"	2.5		98	80-120			
Cadmium	0.439	0.0391	"	0.5		88	80-120			

Origins Laboratory, Inc.



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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 L538381 - 3050B**

**LCS (LCS-L538381)**

Prepared: 03/01/2021 Analyzed: 03/01/2021

Zinc	27.4	0.438	mg/Kg	25		110	80-120			
Silver	0.523	0.0025	"	0.5		105	80-120			
Arsenic	2.44	0.0433	"	2.5		98	80-120			
Barium	4.94	0.041	"	5		99	80-120			

**LRB (LRB-L538381)**

Prepared: 03/01/2021 Analyzed: 03/01/2021

Lead	0.0122	0.25	mg/Kg				-			J
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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Brian Sulzberger  
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 Project: KMG - Doris Ackerson B1

**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 L538872 -</b>										
<b>DUP (L 85832-DUP)</b>		<b>Source: 85832</b>			Prepared: Analyzed: 03/02/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		85832		-	0	20	
<b>MS (L 85832-MS)</b>		<b>Source: 85832</b>			Prepared: Analyzed: 03/02/2021					
Chromium, Hexavalent	6.98	0.244	mg/Kg	7.88	85832	89	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 03/02/2021								
Chromium, Hexavalent	7.04	0.244	mg/Kg	8		88	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 03/02/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**Anions by EPA 300.0 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2095615 -**

**BLANK (1204759069-BLK)**

Prepared: Analyzed: 02/24/2021

Sulfate	ND	0.400	mg/L				-			U
Chloride	ND	0.200	"				-			U

**LCS (1204759070-BKS)**

Prepared: Analyzed: 02/24/2021

Chloride	4.57	0.200	mg/L	5.00		91.4	90-110			
Sulfate	9.41	0.400	"	10.0		94.1	90-110			

**DUP (1204759072 D)**

**Source: 535566001**

Prepared: Analyzed: 02/24/2021

Chloride	699	20.0	mg/L		698		0-20	0.183	20	
Sulfate	490	40.0	"		490		0-20	0.0857	20	

**PS (1204759074 S)**

**Source: 535566001**

Prepared: Analyzed: 02/24/2021

Chloride	1240	20.0	mg/L	5.00		108	90-110			
Sulfate	1460	40.0	"	10.0		96.8	90-110			

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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**PAH by 8270D SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2095602 - SW846 3541**

**BLANK (1204759054-BLK)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

Chrysene	ND	0.00333	mg/kg				-			U
Pyrene	ND	0.00333	"				-			U
Naphthalene	ND	0.00333	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00333	"				-			U
Acenaphthene	ND	0.00333	"				-			U
1-Methylnaphthalene	ND	0.00333	"				-			U
Fluoranthene	ND	0.00333	"				-			U
Fluorene	ND	0.00333	"				-			U
Anthracene	ND	0.00333	"				-			U
Benzo(a)anthracene	ND	0.00333	"				-			U
Benzo(a)pyrene	ND	0.00333	"				-			U
Benzo(b)fluoranthene	ND	0.00333	"				-			U
Benzo(k)fluoranthene	ND	0.00333	"				-			U
Dibenzo(a,h)anthracene	ND	0.00333	"				-			U
2-Methylnaphthalene	ND	0.00333	"				-			U

Surrogate: 5-alpha-Androstane

0.150

"

0.166

90

25-121

**LCS (1204759055-BKS)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

Pyrene	0.313	0.00333	mg/kg	0.333		94	42-114			
Naphthalene	0.272	0.00333	"	0.333		82	52-106			
Fluoranthene	0.280	0.00333	"	0.333		84	43-116			
Fluorene	0.283	0.00333	"	0.333		85	42-113			
Anthracene	0.292	0.00333	"	0.333		88	49-113			
Indeno(1,2,3-cd)pyrene	0.309	0.00333	"	0.333		93	40-132			
1-Methylnaphthalene	0.264	0.00333	"	0.333		79	50-109			
2-Methylnaphthalene	0.269	0.00333	"	0.333		81	50-109			
Acenaphthene	0.277	0.00333	"	0.333		83	48-107			

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**PAH by 8270D SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2095602 - SW846 3541**

**LCS (1204759055-BKS)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

Benzo(a)anthracene	0.271	0.00333	mg/kg	0.333		81	51-118			
Benzo(a)pyrene	0.307	0.00333	"	0.333		92	42-123			
Dibenzo(a,h)anthracene	0.312	0.00333	"	0.333		94	40-137			
Benzo(b)fluoranthene	0.296	0.00333	"	0.333		89	42-119			
Benzo(k)fluoranthene	0.280	0.00333	"	0.333		84	39-119			
Chrysene	0.313	0.00333	"	0.333		94	53-108			
Surrogate: 5-alpha-Androstane	0.138		"	0.166		83	25-121			

**LCSD (1204759056-BKSD)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

Fluoranthene	0.259	0.00333	mg/kg	0.333		78	43-116	8	30	
Fluorene	0.265	0.00333	"	0.333		80	42-113	6	30	
Pyrene	0.277	0.00333	"	0.333		83	42-114	12	30	
Naphthalene	0.260	0.00333	"	0.333		78	52-106	5	30	
Anthracene	0.270	0.00333	"	0.333		81	49-113	8	30	
1-Methylnaphthalene	0.249	0.00333	"	0.333		75	50-109	6	30	
2-Methylnaphthalene	0.252	0.00333	"	0.333		76	50-109	6	30	
Indeno(1,2,3-cd)pyrene	0.293	0.00333	"	0.333		88	40-132	5	30	
Acenaphthene	0.258	0.00333	"	0.333		78	48-107	7	30	
Benzo(a)anthracene	0.247	0.00333	"	0.333		74	51-118	9	30	
Benzo(a)pyrene	0.283	0.00333	"	0.333		85	42-123	8	30	
Benzo(b)fluoranthene	0.266	0.00333	"	0.333		80	42-119	11	30	
Benzo(k)fluoranthene	0.259	0.00333	"	0.333		78	39-119	8	30	
Chrysene	0.289	0.00333	"	0.333		87	53-108	8	30	
Dibenzo(a,h)anthracene	0.293	0.00333	"	0.333		88	40-137	6	30	
Surrogate: 5-alpha-Androstane	0.124		"	0.167		74	25-121			

**MS (1204759057 S)**

Source: 535633001

Prepared: 02/25/2021 Analyzed: 02/25/2021

Origins Laboratory, Inc.



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Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**PAH by 8270D SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2095602 - SW846 3541

**MS (1204759057 S)**

Source: 535633001

Prepared: 02/25/2021 Analyzed: 02/25/2021

Chrysene	0.270	0.00350	mg/kg dry	0.350	0.0102	74	31-119			
Pyrene	0.253	0.00350	"	0.350	0.0134	68	19-139			
Naphthalene	0.243	0.00350	"	0.350	<0.00116	69	29-122			
Indeno(1,2,3-cd)pyrene	0.273	0.00350	"	0.350	0.00879	75	14-132			
Acenaphthene	0.237	0.00350	"	0.350	<0.00116	67	29-118			
Fluorene	0.245	0.00350	"	0.350	<0.00116	70	26-123			
Benzo(a)pyrene	0.264	0.00350	"	0.350	0.00809	73	24-129			
Fluoranthene	0.242	0.00350	"	0.350	0.0120	66	21-122			
Anthracene	0.244	0.00350	"	0.350	<0.00116	70	29-127			
2-Methylnaphthalene	0.239	0.00350	"	0.350	<0.00116	68	23-124			
1-Methylnaphthalene	0.235	0.00350	"	0.350	<0.00116	67	30-129			
Benzo(b)fluoranthene	0.254	0.00350	"	0.350	0.0144	68	22-130			
Benzo(k)fluoranthene	0.244	0.00350	"	0.350	0.00492	68	26-130			
Dibenzo(a,h)anthracene	0.270	0.00350	"	0.350	0.00211	76	16-139			
Benzo(a)anthracene	0.227	0.00350	"	0.350	0.00527	63	31-124			
Surrogate: 5-alpha-Androstane	0.112		"	0.175	0.143	64	25-121			

**MSD (1204759058 SD)**

Source: 535633001

Prepared: 02/25/2021 Analyzed: 02/25/2021

Chrysene	0.350	0.00349	mg/kg dry	0.349	0.0102	97	31-119	26	30	
Pyrene	0.354	0.00349	"	0.349	0.0134	97	19-139	33	30	
Naphthalene	0.286	0.00349	"	0.349	<0.00115	82	29-122	16	30	
Indeno(1,2,3-cd)pyrene	0.305	0.00349	"	0.349	0.00879	85	14-132	11	30	
Fluorene	0.310	0.00349	"	0.349	<0.00115	89	26-123	23	30	
Dibenzo(a,h)anthracene	0.303	0.00349	"	0.349	0.00211	86	16-139	12	30	
Benzo(k)fluoranthene	0.323	0.00349	"	0.349	0.00492	91	26-130	28	30	
Benzo(b)fluoranthene	0.357	0.00349	"	0.349	0.0144	98	22-130	34	30	
Benzo(a)pyrene	0.340	0.00349	"	0.349	0.00809	95	24-129	25	30	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**PAH by 8270D SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2095602 - SW846 3541

MSD (1204759058 SD)	Source: 535633001			Prepared: 02/25/2021 Analyzed: 02/25/2021						
Benzo(a)anthracene	0.296	0.00349	mg/kg dry	0.349	0.00527	83	31-124	26	30	
Anthracene	0.313	0.00349	"	0.349	<0.00115	89	29-127	25	30	
Acenaphthene	0.298	0.00349	"	0.349	<0.00115	85	29-118	23	30	
2-Methylnaphthalene	0.286	0.00349	"	0.349	<0.00115	82	23-124	18	30	
1-Methylnaphthalene	0.282	0.00349	"	0.349	<0.00115	81	30-129	18	30	
Fluoranthene	0.308	0.00349	"	0.349	0.0120	85	21-122	24	30	
Surrogate: 5-alpha-Androstane	0.145		"	0.175	0.143	83	25-121			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

---

**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

J Estimated Value. Analyte below reported quantitation limit.

\* 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.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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.*



March 11, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Doris Ackerson B1

Project Number - TE105720031

Attached are your analytical results for KMG - Doris Ackerson B1 received by Origins Laboratory, Inc. March 05, 2021. This project is associated with Origins project number Y103120-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG05	Y103120-01	Soil	March 5, 2021 13:38	03/05/2021 15:21

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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.*



WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

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

**Sample Receipt Checklist**

Origins Work Order: Y103120 Client: WSP USA  
 Client Project ID: KMG-Doris Ackerson

Checklist Completed by: JGjm Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 3/5/12 Airbill #: N/A

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

Cooler Number/Temperature: 1 A7.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

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> ?		X		same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			X	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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.

JGjm  
 Reviewed by (Project Manager) 3-5-21  
Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**BG05**

**3/5/2021 1:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y103120-01 (Soil)**

**Boron (Sorbitol)**

Boron	2.9			mg/L	1	[none]	03/08/2021	03/10/2021	
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**Metals (Saturated Paste Prep)**

Calcium	9.32			me/L	1	[none]	"	03/10/2021	
Magnesium	7.14			"	"	"	"	"	
Sodium	18.70			"	"	"	"	"	

**pH in Soil by EPA 9045D**

pH	7.26			pH Units	1	B1C0809	03/05/2021	03/05/2021	
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**SAR by 20B Saturated Paste**

SAR	6.52				1	[none]	03/08/2021	03/10/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	3.96		0.00500	mmhos/cm	1	B1C0810	03/08/2021	03/08/2021	
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**Total Metals by 6020B**

Arsenic	4.88	0.0433	0.25	mg/Kg	5	L540081	03/09/2021	03/09/2021	
Barium	351	0.82	5	"	100	"	"	"	
Cadmium	0.255	0.0391	0.25	"	5	"	"	"	
Copper	13	0.118	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**BG05**

**3/5/2021 1:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y103120-01 (Soil)**

**Total Metals by 6020B**

Lead	11.8	0.0115	0.25	mg/Kg	5	L540081	03/09/2021	03/09/2021	
Nickel	13.7	0.0743	0.25	"	"	"	"	"	
Selenium	0.314	0.102	0.25	"	"	"	"	"	
Silver	0.0523	0.0025	0.25	"	"	"	"	"	J
Zinc	50.3	0.438	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L540221	03/05/2021	03/09/2021	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1C0809 - NO PREP</b>										
<b>Duplicate (B1C0809-DUP1)</b>		<b>Source: Y103120-01</b>			Prepared: 03/05/2021 Analyzed: 03/08/2021					
pH	7.53		pH Units		7.26			3.65	25	
<b>Batch B1C0810 - NO PREP</b>										
<b>Blank (B1C0810-BLK1)</b>					Prepared: 03/08/2021 Analyzed: 03/08/2021					
Specific Conductance (EC)	0.00210	0.00500	mmhos/cm							
<b>Duplicate (B1C0810-DUP1)</b>		<b>Source: Y103120-01</b>			Prepared: 03/08/2021 Analyzed: 03/08/2021					
Specific Conductance (EC)	4.29	0.00500	mmhos/cm		3.96			8.13	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 L540081 - 3050B**

<b>MSD (L 89368-MSD-L540081)</b>		<b>Source: 89368</b>			<b>Prepared: 03/09/2021 Analyzed: 03/09/2021</b>					
Selenium	3.42	0.102	mg/Kg	4.95	0.326	63	75-125	11.1	80	*
Silver	0.947	0.0025	"	0.495	0.455	99	75-125	8	80	
Nickel	14.7	0.0743	"	2.47	11.8	117	75-125	4.1	80	
Lead	51.8	0.046	"	2.47	47.2	186	75-125	8.2	80	*
Copper	37.9	0.472	"	2.47	32.1	235	75-125	12.3	80	*
Cadmium	1.21	0.0391	"	0.495	0.715	100	75-125	6.8	80	
Barium	141	0.164	"	4.95	134	142	75-125	3.6	80	*
Arsenic	8.05	0.0433	"	2.47	5.54	102	75-125	10.7	80	
Zinc	148	0.438	"	24.7	115	133	75-125	9.1	80	*

<b>MS (L 89368-MS-L540081)</b>		<b>Source: 89368</b>			<b>Prepared: 03/09/2021 Analyzed: 03/09/2021</b>					
Zinc	135	0.438	mg/Kg	23.2	115	86	75-125			
Arsenic	7.23	0.0433	"	2.32	5.54	73	75-125			*
Barium	136	0.164	"	4.64	134	43	75-125			*
Cadmium	1.13	0.0391	"	0.464	0.715	89	75-125			
Copper	33.5	0.472	"	2.32	32.1	60	75-125			*
Lead	47.7	0.046	"	2.32	47.2	22	75-125			*
Nickel	14.1	0.0743	"	2.32	11.8	99	75-125			
Selenium	3.06	0.102	"	4.64	0.326	59	75-125			*
Silver	0.874	0.0025	"	0.464	0.455	90	75-125			

<b>LCS (LCS-L540081)</b>		<b>Prepared: 03/09/2021 Analyzed: 03/09/2021</b>								
Cadmium	0.48	0.0391	mg/Kg	0.5		96	80-120			
Copper	2.49	0.118	"	2.5		100	80-120			
Lead	2.46	0.0115	"	2.5		98	80-120			
Nickel	2.39	0.0743	"	2.5		96	80-120			
Selenium	4.74	0.102	"	5		95	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 L540081 - 3050B**

**LCS (LCS-L540081)**

Prepared: 03/09/2021 Analyzed: 03/09/2021

Silver	0.49	0.0025	mg/Kg	0.5		98	80-120			
Zinc	24.6	0.438	"	25		98	80-120			
Barium	5.1	0.041	"	5		102	80-120			
Arsenic	2.44	0.0433	"	2.5		98	80-120			

**LRB (LRB-L540081)**

Prepared: 03/09/2021 Analyzed: 03/09/2021

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

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**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 L540221 -</b>										
<b>DUP (L 89369-DUP)</b>		<b>Source: 89369</b>			Prepared: Analyzed: 03/09/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		89369		-	0	20	
<b>MS (L 89369-MS)</b>		<b>Source: 89369</b>			Prepared: Analyzed: 03/09/2021					
Chromium, Hexavalent	6.82	0.244	mg/Kg	7.67	89369	89	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 03/09/2021								
Chromium, Hexavalent	7.29	0.244	mg/Kg	8		91	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 03/09/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

---

**Notes and Definitions**

J Estimated Value. Analyte below reported quantitation limit.

\* 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.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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May 14, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Doris Ackerson B1

Project Number - TE105720031

Attached are your analytical results for KMG - Doris Ackerson B1 received by Origins Laboratory, Inc. May 07, 2021. This project is associated with Origins project number Y105138-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG02@10'	Y105138-01	Soil	May 7, 2021 14:45	05/07/2021 17:31
B02@10'	Y105138-02	Soil	May 7, 2021 14:30	05/07/2021 17:31

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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.*



WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

Origins Laboratory

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

Origins Work Order: Y105138

Sample Receipt Checklist

Client: WSP  
 Client Project ID: DORIS ACKERSON B1

Checklist Completed by: Jef KDK  
 Date/time completed: 05/07/21

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: 8714

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

Cooler Number/Temperature: 1 / 4.9 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

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> ?		X		same day
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			/	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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: Jm (Project Manager) Date/Time Reviewed: 5-7-21

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

WSP USA  
 4600 W. 60th Ave.  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: TE105720031  
 Project: KMG - Doris Ackerson B1

**BG02@10'**

**5/7/2021 2:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105138-01 (Soil)**

**Boron (Sorbitol)**

Boron	2.4			mg/L	1	[none]	05/11/2021	05/12/2021	
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**Metals by Saturated Paste**

Calcium	9.60			meq/L	1	[CALC]	05/10/2021	05/10/2021	
Magnesium	7.72			"	"	"	"	"	
Sodium	18.0			"	"	"	"	"	

**pH in Soil by EPA 9045D**

pH	7.21			pH Units	1	B1E1007	05/10/2021	05/11/2021	
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**SAR by 20B Saturated Paste**

SAR	6.11			SAR	1	B1E1011	05/10/2021	05/10/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	3.15		0.00500	mmhos/cm	1	B1E1008	05/10/2021	05/11/2021	
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**Total Metals by 6020B**

Arsenic	3.54	0.0855	0.25	mg/Kg	5	L552346	05/11/2021	05/12/2021	
Barium	194	0.042	0.25	"	"	"	"	"	
Cadmium	0.233	0.0259	0.25	"	"	"	"	"	J
Copper	10.6	0.0806	0.25	"	"	"	"	"	

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Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: TE105720031  
Project: KMG - Doris Ackerson B1

**BG02@10'**

**5/7/2021 2:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y105138-01 (Soil)**

**Total Metals by 6020B**

Lead	8.8	0.062	0.5	mg/Kg	10	L552346	05/11/2021	05/12/2021	
Nickel	12.2	0.0633	0.25	"	5	"	"	"	
Selenium	0.377	0.103	0.25	"	"	"	"	"	
Silver	0.0286	0.0067	0.25	"	"	"	"	"	J
Zinc	38.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L552416	05/07/2021	05/12/2021	
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**B02@10'**  
**5/7/2021 2:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105138-02 (Soil)**

**Boron (Sorbitol)**

Boron	1.4			mg/L	1	[none]	05/11/2021	05/12/2021	
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**Total Metals by 6020B**

Lead	9.61	0.062	0.5	mg/Kg	10	L552346	"	05/12/2021	
Selenium	0.281	0.103	0.25	"	5	"	"	"	

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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1E1007 - NO PREP</b>										
<b>Duplicate (B1E1007-DUP1)</b>		<b>Source: Y105141-01</b>			Prepared: 05/10/2021 Analyzed: 05/11/2021					
pH	7.66		pH Units		7.62			0.602	25	
<b>Batch B1E1008 - NO PREP</b>										
<b>Blank (B1E1008-BLK1)</b>					Prepared: 05/10/2021 Analyzed: 05/11/2021					
Specific Conductance (EC)	0.00440	0.00500	mmhos/cm							
<b>Duplicate (B1E1008-DUP1)</b>		<b>Source: Y105141-01</b>			Prepared: 05/10/2021 Analyzed: 05/11/2021					
Specific Conductance (EC)	0.265	0.00500	mmhos/cm		0.284			6.67	25	

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**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 L552346 - 3050B**

<b>MSD (L 95782-MSD-L552346)</b>		<b>Source: Y105138-02</b>			<b>Prepared: 05/11/2021 Analyzed: 05/13/2021</b>					
Selenium	3.68	0.103	mg/Kg	4.93	0.281	69	75-125	4.1	80	*
Silver	0.468	0.0067	"	0.493	0.024	95	75-125	1.2	80	
Nickel	14.9	0.0633	"	2.47	12.2	110	75-125	0.6	80	
Lead	12.8	0.062	"	2.47	9.61	129	75-125	2.3	80	*
Copper	13.1	0.0806	"	2.47	10	126	75-125	6.2	80	*
Cadmium	0.672	0.0259	"	0.493	0.211	136	75-125	3.3	80	*
Barium	102	0.042	"	4.93	84.9	347	75-125	15.5	80	*
Arsenic	10.4	0.0855	"	2.47	6.61	154	75-125	16.1	80	*
Zinc	65.4	0.534	"	24.7	40.6	101	75-125	2.1	80	

<b>MS (L 95782-MS-L552346)</b>		<b>Source: Y105138-02</b>			<b>Prepared: 05/11/2021 Analyzed: 05/12/2021</b>					
Zinc	64	0.534	mg/Kg	24.7	40.6	95	75-125			
Arsenic	8.85	0.0855	"	2.47	6.61	91	75-125			
Barium	87.3	0.042	"	4.94	84.9	49	75-125			*
Cadmium	0.65	0.0259	"	0.494	0.211	132	75-125			*
Copper	12.3	0.0806	"	2.47	10	93	75-125			
Lead	12.5	0.062	"	2.47	9.61	117	75-125			
Nickel	15	0.0633	"	2.47	12.2	113	75-125			
Selenium	3.53	0.103	"	4.94	0.281	66	75-125			*
Silver	0.474	0.0067	"	0.494	0.024	96	75-125			

<b>LCS (LCS-L552346)</b>		<b>Prepared: 05/11/2021 Analyzed: 05/12/2021</b>								
Cadmium	0.462	0.0259	mg/Kg	0.5		92	80-120			
Copper	2.24	0.0806	"	2.5		90	80-120			
Lead	2.4	0.031	"	2.5		96	80-120			
Nickel	2.25	0.0633	"	2.5		90	80-120			
Selenium	4.95	0.103	"	5		99	80-120			

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**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 L552346 - 3050B**

**LCS (LCS-L552346)**

Prepared: 05/11/2021 Analyzed: 05/12/2021

Silver	0.493	0.0067	mg/Kg	0.5		99	80-120			
Zinc	23.3	0.534	"	25		93	80-120			
Barium	5.04	0.042	"	5		101	80-120			
Arsenic	2.38	0.0855	"	2.5		95	80-120			

**LRB (LRB-L552346)**

Prepared: 05/11/2021 Analyzed: 05/12/2021

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

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**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 L552416 -</b>										
<b>DUP (L 95781-DUP)</b>		<b>Source: Y105138-01</b>			Prepared: Analyzed: 05/12/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		95781		-	0	20	
<b>MS (L 95781-MS)</b>		<b>Source: Y105138-01</b>			Prepared: Analyzed: 05/12/2021					
Chromium, Hexavalent	6.56	0.244	mg/Kg	8.04	95781	82	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 05/12/2021								
Chromium, Hexavalent	7.2	0.244	mg/Kg	8		90	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 05/12/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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**Notes and Definitions**

J Estimated Value. Analyte below reported quantitation limit.

\* 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.

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