



January 23, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. January 03, 2023. This project is associated with Origins project number Y301004-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y301004-01	Soil	January 3, 2023 13:15	01/03/2023 14:26

Origins Laboratory, Inc.



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

**Sample Receipt Checklist**

Origins Work Order: 2301004 Client: Eagle  
 Client Project ID: Ditlev Simonsen

Checklist Completed by: DE Shipped Via: HD  
 Date/time completed: 1/3/2022 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1,39 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: TD4

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to < 5°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 Na <sub>2</sub> AsO <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) DE Date/Time Reviewed 1/3/22

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**AST-B01@3"**

**1/3/2023 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301004-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.150		0.100	mg/L	1	B3A0404	01/04/2023	01/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0320	01/03/2023	01/03/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0319	01/03/2023	01/04/2023	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

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**AST-B01@3"**

**1/3/2023 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301004-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	97.4 %		70-130			B3A03 19	01/03/2023	01/04/2023	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.46		0.499	meq/L	10	[CALC]	01/04/2023	01/05/2023	
Magnesium	2.21		0.823	"	"	"	"	"	
Sodium	11.9		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.77			pH Units	1	B3A0405	01/04/2023	01/05/2023	
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**SAR by 20B Saturated Paste**

SAR	8.76			SAR	1	B3A0403	01/04/2023	01/05/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.60		0.00500	mmhos/cm	1	B3A0405	01/04/2023	01/05/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	7.02		0.0838	mg/kg	10	B3A1720	01/17/2023	01/18/2023	
Barium	82.1		8.38	"	"	"	"	"	

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**AST-B01@3"**

**1/3/2023 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301004-01 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.113		0.0838	mg/kg	10	B3A1720	01/17/2023	01/18/2023	
Copper	9.70		8.38	"	"	"	"	"	
Lead	ND		8.38	"	"	"	"	"	
Nickel	8.40		8.38	"	"	"	"	"	
Selenium	0.179		0.0838	"	"	"	"	"	
Silver	ND		0.0838	"	"	"	"	"	
Zinc	ND		83.8	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L659625	01/03/2023	01/20/2023	
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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 B3A0319 - EPA 5030 (soil)

**Blank (B3A0319-BLK1)**

Prepared: 01/03/2023 Analyzed: 01/03/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.5	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 B3A0319 - EPA 5030 (soil)**

**LCS (B3A0319-BS1)**

Prepared: 01/03/2023 Analyzed: 01/03/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0941	0.00200	"	0.100		94.1	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.2	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 B3A0319 - EPA 5030 (soil)

Matrix Spike (B3A0319-MS1)	Source: Y212591-01			Prepared: 01/03/2023 Analyzed: 01/04/2023						
1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500	0.00194	103	70-130			
1,3,5-Trimethylbenzene	0.0514	0.00200	"	0.0500	ND	103	70-130			
Benzene	0.0672	0.00200	"	0.0500	ND	134	70-130			QM-07
Ethylbenzene	0.0607	0.00200	"	0.0500	0.000520	120	70-130			
Naphthalene	0.0647	0.00380	"	0.0500	0.00186	126	70-130			
Toluene	0.0650	0.00200	"	0.0500	0.00142	127	70-130			
o-Xylene	0.0591	0.00200	"	0.0500	0.000900	116	70-130			
m,p-Xylene	0.120	0.00400	"	0.100	0.00288	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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 B3A0319 - EPA 5030 (soil)

Matrix Spike Dup (B3A0319-MSD1)	Source: Y212591-01		Prepared: 01/03/2023 Analyzed: 01/04/2023							
1,2,4-Trimethylbenzene	0.0785	0.00200	mg/kg	0.100	0.00194	76.6	70-130	38.0	20	QR-02
1,3,5-Trimethylbenzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	43.8	20	QR-02
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	19.7	20	
Ethylbenzene	0.0884	0.00200	"	0.100	0.000520	87.9	70-130	37.2	20	QR-02
Naphthalene	0.0904	0.00380	"	0.100	0.00186	88.6	70-130	33.1	20	QR-02
Toluene	0.0811	0.00200	"	0.100	0.00142	79.7	70-130	22.1	20	QR-02
o-Xylene	0.0796	0.00200	"	0.100	0.000900	78.7	70-130	29.6	20	QR-02
m,p-Xylene	0.162	0.00400	"	0.200	0.00288	79.7	70-130	30.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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
<b>Batch B3A0320 - EPA 3580</b>										
<b>Blank (B3A0320-BLK1)</b>										
					Prepared: 01/03/2023 Analyzed: 01/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.3	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0320 - EPA 3580**

**LCS (B3A0320-BS1)**

Prepared: 01/03/2023 Analyzed: 01/03/2023

Diesel (C10-C28)	911	50.0	mg/kg	1000		91.1	70-130			
Residual Range Organics (C28-C40)	954	200	"	1000		95.4	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.9	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0320 - EPA 3580**

<b>Matrix Spike (B3A0320-MS1)</b>	<b>Source: Y301003-01</b>			<b>Prepared: 01/03/2023 Analyzed: 01/03/2023</b>						
Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	38		"	49.8		75.6	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A0320 - EPA 3580

Matrix Spike Dup (B3A0320-MSD1)	Source: Y301003-01			Prepared: 01/03/2023 Analyzed: 01/03/2023						
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130	5.29	35	
Residual Range Organics (C28-C40)	922	200	"	1000	ND	92.2	70-130	5.87	35	
Surrogate: o-Terphenyl	45		"	49.8		91.3	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A1720 - EPA 3050B**

**Blank (B3A1720-BLK1)**

Prepared: 01/17/2023 Analyzed: 01/18/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3A1720-BS1)**

Prepared: 01/17/2023 Analyzed: 01/18/2023

Arsenic	0.0512	0.000100	mg/kg	0.0500		102	80-120			
Barium	5.18	0.0100	"	5.00		104	80-120			
Cadmium	0.0513	0.000100	"	0.0500		103	80-120			
Copper	0.522	0.0100	"	0.500		104	80-120			
Lead	0.0513	0.0100	"	0.0500		103	80-120			
Nickel	0.0525	0.0100	"	0.0500		105	80-120			
Selenium	0.0502	0.000100	"	0.0500		100	80-120			
Silver	0.0524	0.000100	"	0.0500		105	80-120			
Zinc	0.526	0.100	"	0.500		105	80-120			

**Matrix Spike (B3A1720-MS1)**

Source: Y301247-01

Prepared: 01/17/2023 Analyzed: 01/18/2023

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A1720 - EPA 3050B**

<b>Matrix Spike (B3A1720-MS1)</b>		<b>Source: Y301247-01</b>			<b>Prepared: 01/17/2023 Analyzed: 01/18/2023</b>					
Arsenic	7.49	0.0918	mg/kg	4.59	5.02	53.8	75-125			QM-07
Barium	575	9.18	"	459	ND	125	75-125			
Cadmium	4.20	0.0918	"	4.59	0.110	89.2	75-125			
Copper	51.8	9.18	"	45.9	18.9	71.8	75-125			QM-07
Lead	16.3	9.18	"	4.59	13.8	55.8	75-125			QM-07
Nickel	20.5	9.18	"	4.59	20.8	NR	75-125			QM-07
Selenium	3.33	0.0918	"	4.59	0.104	70.3	75-125			QM-07
Silver	4.12	0.0918	"	4.59	0.0464	88.8	75-125			
Zinc	88.4	91.8	"	45.9	62.8	55.7	75-125			QM-07
<b>Matrix Spike Dup (B3A1720-MSD1)</b>		<b>Source: Y301247-01</b>			<b>Prepared: 01/17/2023 Analyzed: 01/18/2023</b>					
Arsenic	8.06	0.0925	mg/kg	4.62	5.02	65.8	75-125	7.34	20	QM-07
Barium	656	9.25	"	462	ND	142	75-125	13.2	20	QM-07
Cadmium	4.89	0.0925	"	4.62	0.110	103	75-125	15.2	20	
Copper	60.3	9.25	"	46.2	18.9	89.6	75-125	15.1	20	
Lead	18.8	9.25	"	4.62	13.8	109	75-125	14.1	20	
Nickel	22.0	9.25	"	4.62	20.8	25.9	75-125	6.87	20	QM-07
Selenium	3.76	0.0925	"	4.62	0.104	79.1	75-125	12.2	20	
Silver	4.98	0.0925	"	4.62	0.0464	107	75-125	18.8	20	
Zinc	108	92.5	"	46.2	62.8	98.0	75-125	20.1	20	QR-DUP

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0403 - Saturated Paste Metals**

**Blank (B3A0403-BLK1)**

Prepared: 01/04/2023 Analyzed: 01/05/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3A0403-DUP1)**

Source: Y301004-01

Prepared: 01/04/2023 Analyzed: 01/05/2023

Calcium PPM	30.6	10.0	mg/L		29.2			4.47	50	
SAR	0.00		SAR		8.76			200	200	
Magnesium PPM	26.6	10.0	mg/L		26.8			0.857	50	
Sodium PPM	275	10.0	"		273			0.928	50	

**Batch B3A0404 - DTPA Sorbitol Preparation**

**Blank (B3A0404-BLK1)**

Prepared: 01/04/2023 Analyzed: 01/05/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3A0404-DUP1)**

Source: Y212628-01

Prepared: 01/04/2023 Analyzed: 01/05/2023

Boron	0.0754	0.100	mg/L		0.0723			4.19	50	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0405 - Saturated Paste pH/EC**

**Blank (B3A0405-BLK1)**

Prepared: 01/04/2023 Analyzed: 01/05/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3A0405-DUP1)**

**Source: Y301004-01**

Prepared: 01/04/2023 Analyzed: 01/05/2023

pH	8.72		pH Units		8.77		0.572	25		
Specific Conductance (EC)	1.53	0.00500	mmhos/cm		1.60		4.46	25		

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 L659625 -</b>										
<b>DUP (L 94535-DUP)</b>		<b>Source: Y301004-01</b>			Prepared: Analyzed: 01/20/2023					
Chromium, Hexavalent	ND	0.52	mg/Kg		<0.520		-	0	20	
<b>MS (L 94535-MS)</b>		<b>Source: Y301004-01</b>			Prepared: Analyzed: 01/20/2023					
Chromium, Hexavalent	34.3	2.53	mg/Kg	40.4	< 0.245	85	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 01/20/2023								
Chromium, Hexavalent	6.39	0.5	mg/Kg	8		80	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 01/20/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

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**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.

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.



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January 12, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. January 05, 2023. This project is associated with Origins project number Y301057-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B01@5'	Y301057-01	Soil	January 5, 2023 12:30	01/05/2023 16:44
PW-W01@2.5'	Y301057-02	Soil	January 5, 2023 12:32	01/05/2023 16:44
SEP-B01@3'	Y301057-03	Soil	January 5, 2023 12:34	01/05/2023 16:44
SEP-B02@3'	Y301057-04	Soil	January 5, 2023 12:36	01/05/2023 16:44

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y301057

Client: Eagle

Client Project ID: Ditlev Simonsen GU 2 OSA

Checklist Completed by: DE

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

Date/time completed: 1/5/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / .2 °C / °C / °C (Describe) °C

Thermometer ID: TDM

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			
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	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		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.

DE  
 Reviewed by (Project Manager)

1/5/23  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B01@5'**  
**1/5/2023 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0992	mg/L	1	B3A0608	01/06/2023	01/09/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	424		25.0	mg/kg	1	B3A0529	01/05/2023	01/05/2023	
Residual Range Organics (C28-C40)	389		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	92.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00306		0.00200	mg/kg	1	B3A0528	01/05/2023	01/05/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.0171		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.631		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	131 %		70-130			"	"	"	S-GC
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B01@5'**  
**1/5/2023 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.1 %		70-130			B3A05 28	01/05/2023	01/05/2023	
Surrogate: 4-Bromofluorobenzene	121 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.06		0.499	meq/L	10	[CALC]	01/06/2023	01/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.03		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0349	0.0109	0.0201	mg/Kg	10	L657642	01/10/2023	01/10/2023	
2-Methylnaphthalene	0.0737	0.0194	0.0201	"	"	"	"	"	
Acenaphthene	0.0226	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.0069	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	0.0153	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0131	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	0.111	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00907	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	0.00629	0.00394	0.0067	"	"	"	"	"	J
Fluorene	0.0807	0.00286	0.0067	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B01@5'**  
**1/5/2023 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y301057-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	mg/Kg	10	L657642	01/10/2023	01/10/2023	
Pyrene	<b>0.0406</b>	<b>0.00643</b>	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	32.3 %		33-122			"	"	"	*
Surrogate: Nitrobenzene-d5	42.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>7.95</b>			pH Units	1	B3A0610	01/06/2023	01/07/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>1.19</b>			SAR	1	B3A0604	01/06/2023	01/09/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.267</b>		0.00500	mmhos/cm	1	B3A0610	01/06/2023	01/07/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>0.803</b>		0.0920	mg/kg	10	B3A0617	01/06/2023	01/06/2023	
Barium	<b>13.9</b>		9.20	"	"	"	"	"	
Cadmium	ND		0.0920	"	"	"	"	"	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B01@5'**  
**1/5/2023 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-01 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.20	mg/kg	10	B3A0617	01/06/2023	01/06/2023	
Lead	ND		9.20	"	"	"	"	"	
Nickel	ND		9.20	"	"	"	"	"	
Selenium	ND		0.0920	"	"	"	"	"	
Silver	ND		0.0920	"	"	"	"	"	
Zinc	ND		92.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L657943	01/05/2023	01/11/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@2.5'**  
**1/5/2023 12:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B3A0608	01/06/2023	01/09/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0529	01/05/2023	01/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0528	01/05/2023	01/06/2023	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

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@2.5'**  
**1/5/2023 12:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	130 %		70-130			B3A05 28	01/05/2023	01/06/2023	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.08		0.499	meq/L	10	[CALC]	01/06/2023	01/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.16			pH Units	1	B3A0610	01/06/2023	01/07/2023	
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**SAR by 20B Saturated Paste**

SAR	0.138			SAR	1	B3A0604	01/06/2023	01/09/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.169		0.00500	mmhos/cm	1	B3A0610	01/06/2023	01/07/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**SEP-B01@3'**  
**1/5/2023 12:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.529		0.100	mg/L	1	B3A0608	01/06/2023	01/09/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0529	01/05/2023	01/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	75.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00306		0.00200	mg/kg	1	B3A0528	01/05/2023	01/06/2023	
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

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

SEP-B01@3'  
 1/5/2023 12:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y301057-03 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	132 %		70-130			B3A05 28	01/05/2023	01/06/2023	GC
Surrogate: Toluene-d8	124 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	13.5		0.499	meq/L	10	[CALC]	01/06/2023	01/09/2023	
Magnesium	7.42		0.823	"	"	"	"	"	
Sodium	5.87		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.99			pH Units	1	B3A0611	01/06/2023	01/07/2023	
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**SAR by 20B Saturated Paste**

SAR	1.81			SAR	1	B3A0605	01/06/2023	01/09/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.21		0.00500	mmhos/cm	1	B3A0611	01/06/2023	01/07/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

SEP-B02@3'  
 1/5/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301057-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.511		0.0997	mg/L	1	B3A0608	01/06/2023	01/09/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0529	01/05/2023	01/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0528	01/05/2023	01/06/2023	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

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

SEP-B02@3'  
 1/5/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y301057-04 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	134 %		70-130			B3A05 28	01/05/2023	01/06/2023	GC
Surrogate: Toluene-d8	111 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	5.49		0.499	meq/L	10	[CALC]	01/06/2023	01/09/2023	
Magnesium	3.22		0.823	"	"	"	"	"	
Sodium	3.60		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B3A0611	01/06/2023	01/07/2023	
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**SAR by 20B Saturated Paste**

SAR	1.72			SAR	1	B3A0605	01/06/2023	01/09/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.17		0.00500	mmhos/cm	1	B3A0611	01/06/2023	01/07/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0528 - EPA 5030 (soil)**

**Blank (B3A0528-BLK1)**

Prepared: 01/05/2023 Analyzed: 01/05/2023

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	0.15		"	0.125	123		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0528 - EPA 5030 (soil)**

**LCS (B3A0528-BS1)**

Prepared: 01/05/2023 Analyzed: 01/05/2023

1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Benzene	0.0951	0.00200	"	0.100		95.1	70-130			
Ethylbenzene	0.0849	0.00200	"	0.100		84.9	70-130			
Naphthalene	0.0911	0.00380	"	0.100		91.1	70-130			
Toluene	0.0923	0.00200	"	0.100		92.3	70-130			
o-Xylene	0.0868	0.00200	"	0.100		86.8	70-130			
m,p-Xylene	0.167	0.00400	"	0.200		83.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0528 - EPA 5030 (soil)

LCS Dup (B3A0528-BSD1)

Prepared: 01/05/2023 Analyzed: 01/05/2023

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100		88.7	70-130	0.906	20	
1,3,5-Trimethylbenzene	0.0893	0.00200	"	0.100		89.3	70-130	0.157	20	
Benzene	0.0932	0.00200	"	0.100		93.2	70-130	2.10	20	
Ethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130	5.65	20	
Naphthalene	0.0968	0.00380	"	0.100		96.8	70-130	6.05	20	
Toluene	0.0913	0.00200	"	0.100		91.3	70-130	1.07	20	
o-Xylene	0.0909	0.00200	"	0.100		90.9	70-130	4.59	20	
m,p-Xylene	0.176	0.00400	"	0.200		88.1	70-130	5.59	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0529 - EPA 3580</b>										
<b>Blank (B3A0529-BLK1)</b>										
					Prepared: 01/05/2023 Analyzed: 01/05/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.1	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0529 - EPA 3580**

**LCS (B3A0529-BS1)**

Prepared: 01/05/2023 Analyzed: 01/05/2023

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0529 - EPA 3580**

<b>Matrix Spike (B3A0529-MS1)</b>	<b>Source: Y301054-01</b>			Prepared: 01/05/2023 Analyzed: 01/05/2023						
Diesel (C10-C28)	958	50.0	mg/kg	1000	ND	95.8	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			QM-07
Surrogate: o-Terphenyl	38		"	49.8		75.8	50-150			

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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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
<b>Batch B3A0529 - EPA 3580</b>										
<b>Matrix Spike Dup (B3A0529-MSD1)</b>					<b>Source: Y301054-01</b>					Prepared: 01/05/2023 Analyzed: 01/05/2023
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	8.90	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	9.54	35	QM-07
Surrogate: o-Terphenyl	42		"	49.8		84.5	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0617 - EPA 3050B**

**Blank (B3A0617-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/06/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3A0617-BS1)**

Prepared: 01/06/2023 Analyzed: 01/06/2023

Arsenic	0.0494	0.000100	mg/kg	0.0500		98.8	80-120			
Barium	5.04	0.0100	"	5.00		101	80-120			
Cadmium	0.0509	0.000100	"	0.0500		102	80-120			
Copper	0.526	0.0100	"	0.500		105	80-120			
Lead	0.0508	0.0100	"	0.0500		102	80-120			
Nickel	0.0522	0.0100	"	0.0500		104	80-120			
Selenium	0.0489	0.000100	"	0.0500		97.7	80-120			
Silver	0.0507	0.000100	"	0.0500		101	80-120			
Zinc	0.510	0.100	"	0.500		102	80-120			

**Matrix Spike (B3A0617-MS1)**

Source: Y301060-01

Prepared: 01/06/2023 Analyzed: 01/06/2023

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0617 - EPA 3050B**

<b>Matrix Spike (B3A0617-MS1)</b>		<b>Source: Y301060-01</b>			Prepared: 01/06/2023 Analyzed: 01/06/2023					
Arsenic	9.37	0.0906	mg/kg	4.53	4.20	114	75-125			
Barium	675	9.06	"	453	127	121	75-125			
Cadmium	5.38	0.0906	"	4.53	0.213	114	75-125			
Copper	63.7	9.06	"	45.3	13.4	111	75-125			
Lead	19.3	9.06	"	4.53	11.9	163	75-125			QM-07
Nickel	21.7	9.06	"	4.53	14.6	155	75-125			QM-07
Selenium	5.07	0.0906	"	4.53	0.287	105	75-125			
Silver	5.19	0.0906	"	4.53	0.0824	113	75-125			
Zinc	108	90.6	"	45.3	54.4	119	75-125			

<b>Matrix Spike Dup (B3A0617-MSD1)</b>		<b>Source: Y301060-01</b>			Prepared: 01/06/2023 Analyzed: 01/06/2023					
Arsenic	9.72	0.0887	mg/kg	4.43	4.20	125	75-125	3.63	20	
Barium	693	8.87	"	443	127	128	75-125	2.60	20	QM-07
Cadmium	5.54	0.0887	"	4.43	0.213	120	75-125	3.02	20	
Copper	64.3	8.87	"	44.3	13.4	115	75-125	0.869	20	
Lead	21.3	8.87	"	4.43	11.9	211	75-125	9.72	20	QM-07
Nickel	20.9	8.87	"	4.43	14.6	141	75-125	3.52	20	QM-07
Selenium	5.10	0.0887	"	4.43	0.287	108	75-125	0.636	20	
Silver	5.30	0.0887	"	4.43	0.0824	118	75-125	2.12	20	
Zinc	110	88.7	"	44.3	54.4	125	75-125	1.18	20	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0604 - Saturated Paste Metals**

**Blank (B3A0604-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/09/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3A0604-DUP1)**

Source: Y301041-01

Prepared: 01/06/2023 Analyzed: 01/09/2023

SAR	0.00		SAR		6.97			200	200	
Calcium PPM	341	10.0	mg/L		429			22.8	50	
Magnesium PPM	86.2	10.0	"		110			24.4	50	
Sodium PPM	509	10.0	"		625			20.5	50	

**Batch B3A0605 - Saturated Paste Metals**

**Blank (B3A0605-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/09/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3A0605-DUP1)**

Source: Y301057-03

Prepared: 01/06/2023 Analyzed: 01/09/2023

Calcium PPM	267	10.0	mg/L		271			1.43	50	
SAR	0.00		SAR		1.81			200	200	
Magnesium PPM	90.6	10.0	mg/L		90.2			0.507	50	
Sodium PPM	143	10.0	"		135			5.59	50	

**Batch B3A0608 - DTPA Sorbitol Preparation**

**Blank (B3A0608-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/09/2023

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0608 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3A0608-BLK1)</b>					Prepared: 01/06/2023 Analyzed: 01/09/2023					
Boron	ND	0.100	mg/L							
<b>Duplicate (B3A0608-DUP1)</b>					<b>Source: Y301054-05</b> Prepared: 01/06/2023 Analyzed: 01/09/2023					
Boron	0.0936	0.0996	mg/L		0.104			10.3	50	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0610 - Saturated Paste pH/EC**

**Blank (B3A0610-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/07/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3A0610-DUP1)**

**Source: Y301041-01**

Prepared: 01/06/2023 Analyzed: 01/07/2023

Specific Conductance (EC)	4.05	0.00500	mmhos/cm	4.91	19.3	25
pH	7.56		pH Units	7.69	1.70	25

**Batch B3A0611 - Saturated Paste pH/EC**

**Blank (B3A0611-BLK1)**

Prepared: 01/06/2023 Analyzed: 01/07/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3A0611-DUP1)**

**Source: Y301057-03**

Prepared: 01/06/2023 Analyzed: 01/07/2023

pH	8.00		pH Units	7.99	0.125	25
Specific Conductance (EC)	2.22	0.00500	mmhos/cm	2.21	0.334	25

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L657642 - 3550B**

<b>MSD (L 90780-MSD-L657642)</b>		<b>Source: 90780</b>			Prepared: 01/10/2023 Analyzed: 01/10/2023					
Chrysene	0.126	0.00067	mg/Kg	0.163	<0.000624	77.3	30-130	3.2	30	
1-Methylnaphthalene	0.0989	0.00201	"	0.163	<0.00109	60.6	30-130	0.5	30	
2-Methylnaphthalene	0.1	0.00201	"	0.163	<0.00194	61.3	30-130	0	30	
Anthracene	0.122	0.00067	"	0.163	<0.000334	74.8	30-130	2.4	30	
Acenaphthene	0.107	0.00067	"	0.163	<0.000304	65.6	30-130	0	30	
Benzo(a)anthracene	0.119	0.00067	"	0.163	<0.000493	73	30-130	1.6	30	
Benzo(a)pyrene	0.127	0.00067	"	0.163	<0.000468	77.9	30-130	4	30	
Benzo(k)fluoranthene	0.0914	0.00067	"	0.163	<0.000437	56	30-130	9.6	30	
Dibenz(a,h)anthracene	0.168	0.00067	"	0.163	<0.000614	103	30-130	10.6	30	
Fluoranthene	0.117	0.00067	"	0.163	<0.000394	71.7	30-130	2.5	30	
Fluorene	0.118	0.00067	"	0.163	<0.000286	72.3	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.175	0.00067	"	0.163	<0.000627	107	30-130	14.7	30	
Pyrene	0.112	0.00067	"	0.163	<0.000643	68.7	30-130	0.8	30	
Benzo(b)fluoranthene	0.113	0.00067	"	0.163	<0.000585	69.3	30-130	7.3	30	
Surrogate: 2-Fluorobiphenyl	50.9		"	0.326	169	50.9	33-115			
Surrogate: 4-Terphenyl-d14	55.5		"	0.326	173	55.5	33-122			
Surrogate: Nitrobenzene-d5	53.6		"	0.326	183	53.6	29-110			

<b>MS (L 90780-MS-L657642)</b>		<b>Source: 90780</b>			Prepared: 01/10/2023 Analyzed: 01/10/2023					
Pyrene	0.111	0.00067	mg/Kg	0.165	<0.000643	67.2	30-130			
Fluorene	0.118	0.00067	"	0.165	<0.000286	71.5	30-130			
Benzo(b)fluoranthene	0.105	0.00067	"	0.165	<0.000585	63.6	30-130			
Chrysene	0.122	0.00067	"	0.165	<0.000624	73.9	30-130			
Indeno(1,2,3-cd)pyrene	0.151	0.00067	"	0.165	<0.000627	91.5	30-130			
Dibenz(a,h)anthracene	0.151	0.00067	"	0.165	<0.000614	91.5	30-130			
Benzo(k)fluoranthene	0.083	0.00067	"	0.165	<0.000437	50.3	30-130			
Acenaphthene	0.107	0.00067	"	0.165	<0.000304	64.8	30-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L657642 - 3550B**

<b>MS (L 90780-MS-L657642)</b>		<b>Source: 90780</b>			Prepared: 01/10/2023 Analyzed: 01/10/2023					
Benzo(a)pyrene	0.122	0.00067	mg/Kg	0.165	<0.000468	73.9	30-130			
Anthracene	0.119	0.00067	"	0.165	<0.000334	72.1	30-130			
Benzo(a)anthracene	0.117	0.00067	"	0.165	<0.000493	70.9	30-130			
2-Methylnaphthalene	0.1	0.00201	"	0.165	<0.00194	60.6	30-130			
1-Methylnaphthalene	0.0984	0.00201	"	0.165	<0.00109	59.6	30-130			
Fluoranthene	0.114	0.00067	"	0.165	<0.000394	69	30-130			
Surrogate: Nitrobenzene-d5	53		"	0.33	183	53	29-110			
Surrogate: 4-Terphenyl-d14	54.2		"	0.33	173	54.2	33-122			
Surrogate: 2-Fluorobiphenyl	49.3		"	0.33	169	49.3	33-115			

<b>LCS (LCS-L657642)</b>					Prepared: 01/10/2023 Analyzed: 01/10/2023					
Pyrene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Fluorene	0.123	0.00067	"	0.167		73.6	30-130			
Benzo(b)fluoranthene	0.124	0.00067	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.18	0.00067	"	0.167		108	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
Dibenz(a,h)anthracene	0.18	0.00067	"	0.167		108	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(k)fluoranthene	0.0903	0.00067	"	0.167		54	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.167		74.2	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
2-Methylnaphthalene	0.104	0.00201	"	0.167		62.2	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(a)pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Surrogate: 4-Terphenyl-d14	58.8		"	0.333		58.8	33-122			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333		53.4	33-115			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L657642 - 3550B</b>										
<b>LCS (LCS-L657642)</b>					Prepared: 01/10/2023 Analyzed: 01/10/2023					
Surrogate: Nitrobenzene-d5	57.6		mg/Kg	0.333		57.6	29-110			
<b>LRB (LRB-L657642)</b>					Prepared: 01/10/2023 Analyzed: 01/10/2023					
Pyrene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	55.5		"	0.333		55.5	33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 L657943 -</b>										
<b>DUP (L 90776-DUP)</b>		<b>Source: Y301057-01</b>			Prepared: Analyzed: 01/11/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 90776-MS)</b>		<b>Source: Y301057-01</b>			Prepared: Analyzed: 01/11/2023					
Chromium, Hexavalent	38	2.6	mg/Kg	41.6	< 0.244	91	75-125			
<b>MSD (L 90776-MSD)</b>		<b>Source: Y301057-01</b>			Prepared: Analyzed: 01/11/2023					
Chromium, Hexavalent	515	50	mg/Kg	628	<24.4	82	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/11/2023					
Chromium, Hexavalent	7.45	0.5	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/11/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

**Notes and Definitions**

- U Sample is Non-Detect.
  
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
  
- 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.



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January 16, 2023

**Eagle Environmental Consulting, Inc.**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. January 06, 2023. This project is associated with Origins project number Y301092-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-BG01@3'	Y301092-01	Soil	January 6, 2023 15:18	01/06/2023 17:19
PW-BG01@6'	Y301092-02	Soil	January 6, 2023 15:20	01/06/2023 17:19

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4301092

Client: Eagle

Client Project ID: Ditlev-Simonsen GU 1 OS

Checklist Completed by: EHS

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

Date/time completed: 11/6/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 6.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °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"/>		SD
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

[Signature]  
 Reviewed by (Project Manager)

11/6/23  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-BG01@3'**

**1/6/2023 3:18:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301092-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.202		0.0999	mg/L	1	B3A0707	01/07/2023	01/10/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.32		0.499	meq/L	10	[CALC]	01/07/2023	01/10/2023	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	0.588		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B3A0710	01/07/2023	01/10/2023	
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**SAR by 20B Saturated Paste**

SAR	0.452			SAR	1	B3A0704	01/07/2023	01/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.337		0.00500	mmhos/cm	1	B3A0710	01/07/2023	01/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.33		0.0951	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Barium	152		9.51	"	"	"	"	"	
Cadmium	0.191		0.0951	"	"	"	"	"	
Copper	12.7		9.51	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-BG01@3'**

**1/6/2023 3:18:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301092-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	10.3		9.51	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Nickel	15.0		9.51	"	"	"	"	"	
Selenium	0.138		0.0951	"	"	"	"	"	
Silver	ND		0.0951	"	"	"	"	"	
Zinc	ND		95.1	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L658168	01/06/2023	01/12/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-BG01@6'**

**1/6/2023 3:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301092-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.241		0.101	mg/L	1	B3A0707	01/07/2023	01/10/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.00		0.499	meq/L	10	[CALC]	01/07/2023	01/10/2023	
Magnesium	1.73		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B3A0710	01/07/2023	01/10/2023	
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**SAR by 20B Saturated Paste**

SAR	0.262			SAR	1	B3A0704	01/07/2023	01/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369		0.00500	mmhos/cm	1	B3A0710	01/07/2023	01/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.29		0.0924	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Barium	205		9.24	"	"	"	"	"	
Cadmium	0.201		0.0924	"	"	"	"	"	
Copper	14.2		9.24	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-BG01@6'**

**1/6/2023 3:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301092-02 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.7		9.24	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Nickel	15.8		9.24	"	"	"	"	"	
Selenium	ND		0.0924	"	"	"	"	"	
Silver	ND		0.0924	"	"	"	"	"	
Zinc	ND		92.4	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L658168	01/06/2023	01/12/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0909 - EPA 3050B**

**Blank (B3A0909-BLK1)**

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3A0909-BS1)**

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	0.0538	0.000100	mg/kg	0.0500		108	80-120			
Barium	5.05	0.0100	"	5.00		101	80-120			
Cadmium	0.0514	0.000100	"	0.0500		103	80-120			
Copper	0.573	0.0100	"	0.500		115	80-120			
Lead	0.0512	0.0100	"	0.0500		102	80-120			
Nickel	0.0548	0.0100	"	0.0500		110	80-120			
Selenium	0.0487	0.000100	"	0.0500		97.4	80-120			
Silver	0.0511	0.000100	"	0.0500		102	80-120			
Zinc	0.549	0.100	"	0.500		110	80-120			

**Matrix Spike (B3A0909-MS1)**

Source: Y301082-02

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	6.30	0.0902	mg/kg	4.51	1.77	100	75-125			
Barium	496	9.02	"	451	47.1	99.5	75-125			
Cadmium	4.72	0.0902	"	4.51	0.0674	103	75-125			
Copper	57.4	9.02	"	45.1	7.21	111	75-125			
Lead	19.2	9.02	"	4.51	16.8	52.1	75-125			QM-07

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0909 - EPA 3050B**

<b>Matrix Spike (B3A0909-MS1)</b>		<b>Source: Y301082-02</b>			<b>Prepared: 01/09/2023 Analyzed: 01/09/2023</b>					
Nickel	12.1	9.02	mg/kg	4.51	7.25	107	75-125			
Selenium	4.55	0.0902	"	4.51	ND	101	75-125			
Silver	4.60	0.0902	"	4.51	0.0328	101	75-125			
Zinc	71.4	90.2	"	45.1	24.8	103	75-125			
<b>Matrix Spike Dup (B3A0909-MSD1)</b>		<b>Source: Y301082-02</b>			<b>Prepared: 01/09/2023 Analyzed: 01/09/2023</b>					
Arsenic	6.87	0.0931	mg/kg	4.66	1.77	110	75-125	8.66	20	
Barium	517	9.31	"	466	47.1	101	75-125	4.07	20	
Cadmium	4.82	0.0931	"	4.66	0.0674	102	75-125	2.11	20	
Copper	57.9	9.31	"	46.6	7.21	109	75-125	0.765	20	
Lead	32.4	9.31	"	4.66	16.8	335	75-125	51.3	20	QM-07, QR-DUP
Nickel	12.1	9.31	"	4.66	7.25	103	75-125	0.164	20	
Selenium	4.64	0.0931	"	4.66	ND	99.6	75-125	1.87	20	
Silver	4.64	0.0931	"	4.66	0.0328	99.0	75-125	0.985	20	
Zinc	72.1	93.1	"	46.6	24.8	102	75-125	0.915	20	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0704 - Saturated Paste Metals**

**Blank (B3A0704-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3A0704-DUP1)**

Source: Y301080-01

Prepared: 01/07/2023 Analyzed: 01/10/2023

Calcium PPM	49.9	10.0	mg/L		50.8			1.74	50	
SAR	0.00		SAR		0.137			200	200	
Magnesium PPM	4.48	10.0	mg/L		4.54			1.15	50	
Sodium PPM	4.48	10.0	"		3.80			16.5	50	

**Batch B3A0707 - DTPA Sorbitol Preparation**

**Blank (B3A0707-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3A0707-DUP1)**

Source: Y301080-01

Prepared: 01/07/2023 Analyzed: 01/10/2023

Boron	ND	0.0998	mg/L		ND				50	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3A0710 - Saturated Paste pH/EC**

**Blank (B3A0710-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3A0710-DUP1)**

**Source: Y301080-01**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Specific Conductance (EC)	0.364	0.00500	mmhos/cm		0.360		1.11	25	
pH	7.80		pH Units		8.15		4.39	25	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 L658168 -</b>										
<b>DUP (L 91438-DUP)</b>		<b>Source: 91438</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 91438-MS)</b>		<b>Source: 91438</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	38.4	2.55	mg/Kg	40.8	< 0.244	94	75-125			
<b>MSD (L 91438-MSD)</b>		<b>Source: 91438</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	586	51.8	mg/Kg	740	<25.3	79	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	6.51	0.5	mg/Kg	8		81	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

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**Notes and Definitions**

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.*



March 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. March 08, 2023. This project is associated with Origins project number Y303208-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B02@15'	Y303208-01	Soil	March 8, 2023 13:30	03/08/2023 15:12
PW-B03@15'	Y303208-02	Soil	March 8, 2023 13:35	03/08/2023 15:12
PW-B04@15'	Y303208-03	Soil	March 8, 2023 13:40	03/08/2023 15:12
PW-B05@15'	Y303208-04	Soil	March 8, 2023 13:45	03/08/2023 15:12
PW-B06@15'	Y303208-05	Soil	March 8, 2023 13:50	03/08/2023 15:12

Origins Laboratory, Inc.



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

Dan Colocchia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

www.originslaboratory.com

4303208 page | of |

Project Manager: D. Colocchia  
 Project Name: Ditlev-Simonsen GU 2 OSA  
 Project Number: \_\_\_\_\_

Client: Eagle Environmental (UW)  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0719  
 Email Address: dcolocchia@eagle-env.com

Impacted

Samples Collected By: H.A.C.G.

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Turnaround Time
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
PN-802015	3/18/23	1330	2	X								Remaining 915 01/21/23, 18 2 ethylbenzene, xylenes, 1,3,5- TMB, Cd, Cu, Ni Sample instructions per HHS email
PN-802015		1335	1									
PN-804015		1340	1									
PN-805015		1345	1									
PN-806015		1350	1									
Relinquished By: <i>H.A.C.G.</i>	Date: 3/18/23	Time: 1512	Received By: EHS	Date: 3/18/23	Time: 1512	Received By:	Date:	Time:	Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>			

Temp Received: 3, 2 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.

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4303208

Client: Eagle

Client Project ID: Ditlev-Simonsen GU 2 OSA

Checklist Completed by: EHS/DE

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

Date/time completed: 3/8/23

Airbill #: NA

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

Water

Other:

Cooler Number/Temperature: ( 3,2 ) °C / 1 °C / 1 °C (Describe)

Thermometer ID: T05A

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

DE  
 Reviewed by (Project Manager)

3/8/2023  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B02@15'**  
**3/8/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C0825	03/08/2023	03/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C0830	03/08/2023	03/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B02@15'**

**3/8/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	5.90		0.499	meq/L	10	[CALC]	03/09/2023	03/10/2023	
Magnesium	5.52		0.823	"	"	"	"	"	
Sodium	11.8		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669651	03/14/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B02@15'**

**3/8/2023 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303208-01 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			51	03/1 /2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	54.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.85			pH Units	1	B3C0911	03/09/2023	03/10/2023	
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**SAR by 20B Saturated Paste**

SAR	4.96			SAR	1	B3C0906	03/09/2023	03/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.94		0.00500	mmhos/cm	1	B3C0911	03/09/2023	03/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	9.54		0.0930	mg/kg	10	B3C0826	03/08/2023	03/09/2023	
Barium	1160		9.30	"	"	"	"	"	
Cadmium	0.336		0.0930	"	"	"	"	"	
Copper	16.7		9.30	"	"	"	"	"	
Nickel	18.6		9.30	"	"	"	"	"	
Selenium	0.565		0.0930	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B03@15'**

**3/8/2023 1:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C0825	03/08/2023	03/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C0830	03/08/2023	03/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-B03@15'  
 3/8/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303208-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	24.0		0.499	meq/L	10	[CALC]	03/09/2023	03/10/2023	
Magnesium	16.6		0.823	"	"	"	"	"	
Sodium	19.2		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669651	03/14/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000359	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B03@15'**

**3/8/2023 1:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303208-02 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	49.4 %		33-115				03/1 /2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	54.2 %		33-122			51	"	"	"
Surrogate: Nitrobenzene-d5	51.5 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.59			pH Units	1	B3C0911	03/09/2023	03/10/2023	
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**SAR by 20B Saturated Paste**

SAR	4.27			SAR	1	B3C0906	03/09/2023	03/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.19		0.00500	mmhos/cm	1	B3C0911	03/09/2023	03/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.86		0.0905	mg/kg	10	B3C0826	03/08/2023	03/09/2023	
Barium	89.5		9.05	"	"	"	"	"	
Cadmium	ND		0.0905	"	"	"	"	"	
Copper	11.9		9.05	"	"	"	"	"	
Nickel	ND		9.05	"	"	"	"	"	
Selenium	0.243		0.0905	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B04@15'**

**3/8/2023 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C0825	03/08/2023	03/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.00206</b>		0.00200	mg/kg	1	B3C0830	03/08/2023	03/08/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B04@15'**

**3/8/2023 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	8.17		0.499	meq/L	10	[CALC]	03/09/2023	03/10/2023	
Magnesium	6.52		0.823	"	"	"	"	"	
Sodium	14.7		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669651	03/14/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B04@15'**

**3/8/2023 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303208-03 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	54.5 %		33-115				03/1 /2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			51	"	"	"
Surrogate: Nitrobenzene-d5	54.5 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.81			pH Units	1	B3C0911	03/09/2023	03/10/2023	
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**SAR by 20B Saturated Paste**

SAR	5.41			SAR	1	B3C0906	03/09/2023	03/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.47		0.00500	mmhos/cm	1	B3C0911	03/09/2023	03/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	8.60		0.0838	mg/kg	10	B3C0826	03/08/2023	03/09/2023	
Barium	141		8.38	"	"	"	"	"	
Cadmium	0.173		0.0838	"	"	"	"	"	
Copper	16.4		8.38	"	"	"	"	"	
Nickel	15.2		8.38	"	"	"	"	"	
Selenium	0.374		0.0838	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B05@15'**

**3/8/2023 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C0825	03/08/2023	03/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C0830	03/08/2023	03/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B05@15'**

**3/8/2023 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	5.78		0.499	meq/L	10	[CALC]	03/09/2023	03/10/2023	
Magnesium	5.33		0.823	"	"	"	"	"	
Sodium	12.7		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669651	03/14/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B05@15'**

**3/8/2023 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303208-04 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	50.2 %		33-115			51	03/1 /2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	55.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.84			pH Units	1	B3C0911	03/09/2023	03/10/2023	
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**SAR by 20B Saturated Paste**

SAR	5.38			SAR	1	B3C0906	03/09/2023	03/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.08		0.00500	mmhos/cm	1	B3C0911	03/09/2023	03/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	6.02		0.0875	mg/kg	10	B3C0826	03/08/2023	03/09/2023	
Barium	158		8.75	"	"	"	"	"	
Cadmium	0.213		0.0875	"	"	"	"	"	
Copper	13.3		8.75	"	"	"	"	"	
Nickel	16.5		8.75	"	"	"	"	"	
Selenium	0.443		0.0875	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B06@15'**

**3/8/2023 1:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C0825	03/08/2023	03/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.00832</b>		0.00200	mg/kg	1	B3C0830	03/08/2023	03/08/2023	
1,3,5-Trimethylbenzene	<b>0.00264</b>		0.00200	"	"	"	"	"	
Benzene	<b>0.00460</b>		0.00200	"	"	"	"	"	
Ethylbenzene	<b>0.00212</b>		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	<b>0.0215</b>		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B06@15'**

**3/8/2023 1:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303208-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	6.02		0.499	meq/L	10	[CALC]	03/09/2023	03/10/2023	
Magnesium	9.19		0.823	"	"	"	"	"	
Sodium	19.5		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669651	03/14/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000615	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-B06@15'**

**3/8/2023 1:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303208-05 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	49.2 %		33-115			51	03/1 /2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	54.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.88			pH Units	1	B3C0911	03/09/2023	03/10/2023	
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**SAR by 20B Saturated Paste**

SAR	7.06			SAR	1	B3C0906	03/09/2023	03/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.72		0.00500	mmhos/cm	1	B3C0911	03/09/2023	03/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.58		0.0943	mg/kg	10	B3C0826	03/08/2023	03/09/2023	
Barium	67.4		9.43	"	"	"	"	"	
Cadmium	0.127		0.0943	"	"	"	"	"	
Copper	17.5		9.43	"	"	"	"	"	
Nickel	16.1		9.43	"	"	"	"	"	
Selenium	0.249		0.0943	"	"	"	"	"	

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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
<b>Batch B3C0825 - EPA 3580</b>										
<b>Blank (B3C0825-BLK1)</b>										
					Prepared: 03/08/2023 Analyzed: 03/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.0	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0825 - EPA 3580**

**LCS (B3C0825-BS1)**

Prepared: 03/08/2023 Analyzed: 03/08/2023

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	967	200	"	1000		96.7	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0825 - EPA 3580**

<b>Matrix Spike (B3C0825-MS1)</b>	<b>Source: Y303202-01</b>			<b>Prepared: 03/08/2023 Analyzed: 03/08/2023</b>						
Diesel (C10-C28)	1620	50.0	mg/kg	1000	405	121	70-130			
Residual Range Organics (C28-C40)	878	200	"	1000	ND	87.8	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.7	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0825 - EPA 3580**

<b>Matrix Spike Dup (B3C0825-MSD1)</b>	<b>Source: Y303202-01</b>			<b>Prepared: 03/08/2023 Analyzed: 03/08/2023</b>						
Diesel (C10-C28)	1490	50.0	mg/kg	1000	405	108	70-130	8.34	35	
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130	4.94	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>49.8</i>		<i>102</i>	<i>50-150</i>			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0830 - EPA 5030 (soil)**

**Blank (B3C0830-BLK1)**

Prepared: 03/08/2023 Analyzed: 03/08/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0830 - EPA 5030 (soil)**

**LCS (B3C0830-BS1)**

Prepared: 03/08/2023 Analyzed: 03/08/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0830 - EPA 5030 (soil)

Matrix Spike (B3C0830-MS1)	Source: Y303202-01			Prepared: 03/08/2023 Analyzed: 03/08/2023						
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	0.00990	105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	0.00546	101	70-130			
Benzene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0658	0.00380	"	0.100	0.00864	57.2	70-130			QM-07
Toluene	0.0985	0.00200	"	0.100	0.000960	97.5	70-130			
o-Xylene	0.103	0.00200	"	0.100	0.00258	101	70-130			
m,p-Xylene	0.214	0.00400	"	0.200	0.00718	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0830 - EPA 5030 (soil)

Matrix Spike Dup (B3C0830-MSD1)	Source: Y303202-01			Prepared: 03/08/2023 Analyzed: 03/08/2023						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	0.00990	90.6	70-130	13.4	20	
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100	0.00546	86.7	70-130	14.6	20	
Benzene	0.0945	0.00200	"	0.100	ND	94.5	70-130	4.99	20	
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	8.16	20	
Naphthalene	0.0664	0.00380	"	0.100	0.00864	57.7	70-130	0.787	20	QM-07
Toluene	0.0936	0.00200	"	0.100	0.000960	92.6	70-130	5.08	20	
o-Xylene	0.0957	0.00200	"	0.100	0.00258	93.1	70-130	7.83	20	
m,p-Xylene	0.194	0.00400	"	0.200	0.00718	93.2	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C0826 - EPA 3050B**

**Blank (B3C0826-BLK1)**

Prepared: 03/08/2023 Analyzed: 03/09/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3C0826-BS1)**

Prepared: 03/08/2023 Analyzed: 03/09/2023

Arsenic	0.0516	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.20	0.0100	"	5.00		104	80-120			
Cadmium	0.0528	0.000100	"	0.0500		106	80-120			
Copper	0.544	0.0100	"	0.500		109	80-120			
Lead	0.0517	0.0100	"	0.0500		103	80-120			
Nickel	0.0543	0.0100	"	0.0500		109	80-120			
Selenium	0.0502	0.000100	"	0.0500		100	80-120			
Silver	0.0554	0.000100	"	0.0500		111	80-120			
Zinc	0.541	0.100	"	0.500		108	80-120			

**Matrix Spike (B3C0826-MS1)**

Source: Y303182-01

Prepared: 03/08/2023 Analyzed: 03/09/2023

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C0826 - EPA 3050B**

<b>Matrix Spike (B3C0826-MS1)</b>		<b>Source: Y303182-01</b>			Prepared: 03/08/2023 Analyzed: 03/09/2023					
Arsenic	5.83	0.0964	mg/kg	4.82	0.923	102	75-125			
Barium	623	9.64	"	482	125	103	75-125			
Cadmium	5.01	0.0964	"	4.82	0.0599	103	75-125			
Copper	54.1	9.64	"	48.2	1.05	110	75-125			
Lead	7.01	9.64	"	4.82	2.44	94.7	75-125			
Nickel	7.05	9.64	"	4.82	1.75	110	75-125			
Selenium	4.69	0.0964	"	4.82	ND	97.3	75-125			
Silver	5.34	0.0964	"	4.82	0.0112	111	75-125			
Zinc	61.5	96.4	"	48.2	10.6	106	75-125			

<b>Matrix Spike Dup (B3C0826-MSD1)</b>		<b>Source: Y303182-01</b>			Prepared: 03/08/2023 Analyzed: 03/09/2023					
Arsenic	4.96	0.0838	mg/kg	4.19	0.923	96.3	75-125	16.1	20	
Barium	466	8.38	"	419	125	81.5	75-125	28.7	20	QR-02
Cadmium	3.94	0.0838	"	4.19	0.0599	92.7	75-125	23.8	20	QR-02
Copper	43.7	8.38	"	41.9	1.05	102	75-125	21.3	20	QR-02
Lead	8.54	8.38	"	4.19	2.44	146	75-125	19.7	20	QM-07
Nickel	5.74	8.38	"	4.19	1.75	95.2	75-125	20.4	20	QR-02
Selenium	3.83	0.0838	"	4.19	0.0337	90.6	75-125	20.3	20	QR-02
Silver	4.15	0.0838	"	4.19	0.0112	98.9	75-125	25.1	20	QR-02
Zinc	61.6	83.8	"	41.9	10.6	122	75-125	0.146	20	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0906 - Saturated Paste Metals**

**Blank (B3C0906-BLK1)**

Prepared: 03/09/2023 Analyzed: 03/10/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C0906-DUP1)**

**Source: Y303208-01**

Prepared: 03/09/2023 Analyzed: 03/10/2023

Calcium PPM	126	10.0	mg/L		118			6.06	50	
SAR	0.00		SAR		4.96			200	200	
Magnesium PPM	73.1	10.0	mg/L		67.1			8.62	50	
Sodium PPM	292	10.0	"		272			6.88	50	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0911 - Saturated Paste pH/EC</b>										
<b>Blank (B3C0911-BLK1)</b>					Prepared: 03/09/2023 Analyzed: 03/10/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C0911-DUP1)</b>					<b>Source: Y303208-01</b> Prepared: 03/09/2023 Analyzed: 03/10/2023					
pH	7.76		pH Units		7.85			1.15	25	
Specific Conductance (EC)	2.12	0.00500	mmhos/cm		1.94			8.94	25	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669651 - 3550B**

MSD (L 97855-MSD-L669651)	Source: 97855			Prepared: 03/14/2023 Analyzed: 03/15/2023						
Indeno(1,2,3-cd)pyrene	0.0987	0.00067	mg/Kg	0.163	<0.000627	60.5	30-130	25.8	30	
Benzo(k)fluoranthene	0.11	0.00067	"	0.163	<0.000437	67.4	30-130	0.9	30	
Fluorene	0.105	0.00067	"	0.163	<0.000286	64.4	30-130	14.1	30	
Fluoranthene	0.0978	0.00067	"	0.163	<0.000394	60	30-130	16.1	30	
Naphthalene	0.089	0.00201	"	0.163	<0.00145	54.6	30-130	12.6	30	
Dibenz(a,h)anthracene	0.142	0.00067	"	0.163	<0.000614	87.1	30-130	17.9	30	
Chrysene	0.095	0.00067	"	0.163	<0.000624	58.2	30-130	19	30	
Benzo(b)fluoranthene	0.0774	0.00067	"	0.163	<0.000585	47.4	30-130	20.6	30	
Benzo(a)pyrene	0.103	0.00067	"	0.163	<0.000468	63.1	30-130	15.2	30	
Benzo(a)anthracene	0.0979	0.00067	"	0.163	<0.000493	60	30-130	18.6	30	
Anthracene	0.109	0.00067	"	0.163	<0.000334	66.8	30-130	16.8	30	
Acenaphthene	0.0928	0.00067	"	0.163	<0.000304	56.9	30-130	14.2	30	
2-Methylnaphthalene	0.0935	0.00201	"	0.163	<0.00194	57.3	30-130	12.5	30	
1-Methylnaphthalene	0.0939	0.00201	"	0.163	<0.00109	57.6	30-130	13	30	
Pyrene	0.0964	0.00067	"	0.163	<0.000643	59.1	30-130	14.9	30	
Surrogate: 2-Fluorobiphenyl	46.6		"	0.326	19	46.6	33-115			
Surrogate: Nitrobenzene-d5	44.7		"	0.326	1	44.7	29-110			
Surrogate: 4-Terphenyl-d14	51.8		"	0.326	171	51.8	33-122			

MS (L 97855-MS-L669651)	Source: 97855			Prepared: 03/14/2023 Analyzed: 03/15/2023						
Indeno(1,2,3-cd)pyrene	0.128	0.00067	mg/Kg	0.164	<0.000627	78	30-130			
Benzo(b)fluoranthene	0.0952	0.00067	"	0.164	<0.000585	58	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.164	<0.00109	65.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.164	<0.00194	64.6	30-130			
Acenaphthene	0.107	0.00067	"	0.164	<0.000304	65.2	30-130			
Anthracene	0.129	0.00067	"	0.164	<0.000334	78.6	30-130			
Benzo(a)pyrene	0.12	0.00067	"	0.164	<0.000468	73.1	30-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669651 - 3550B**

MS (L 97855-MS-L669651)	Source: 97855		Prepared: 03/14/2023 Analyzed: 03/15/2023							
Pyrene	0.112	0.00067	mg/Kg	0.164	<0.000643	68.2	30-130			
Benzo(k)fluoranthene	0.109	0.00067	"	0.164	<0.000437	66.4	30-130			
Chrysene	0.115	0.00067	"	0.164	<0.000624	70.1	30-130			
Dibenz(a,h)anthracene	0.17	0.00067	"	0.164	<0.000614	104	30-130			
Fluoranthene	0.115	0.00067	"	0.164	<0.000394	70.1	30-130			
Fluorene	0.121	0.00067	"	0.164	<0.000286	73.7	30-130			
Naphthalene	0.101	0.00201	"	0.164	<0.00145	61.5	30-130			
Benzo(a)anthracene	0.118	0.00067	"	0.164	<0.000493	71.9	30-130			
Surrogate: 2-Fluorobiphenyl	55		"	0.329	19	55	33-115			
Surrogate: 4-Terphenyl-d14	60.1		"	0.329	171	60.1	33-122			
Surrogate: Nitrobenzene-d5	51.9		"	0.329	1	51.9	29-110			

LCS (LCS-L669651)	Prepared: 03/14/2023 Analyzed: 03/15/2023									
Indeno(1,2,3-cd)pyrene	0.133	0.00067	mg/Kg	0.167		79.6	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130			
Anthracene	0.137	0.00067	"	0.167		82	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.0936	0.00067	"	0.167		56	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Dibenz(a,h)anthracene	0.181	0.00067	"	0.167		108	30-130			
Fluoranthene	0.114	0.00067	"	0.167		68.2	30-130			
Fluorene	0.129	0.00067	"	0.167		77.2	30-130			
Naphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Pyrene	0.112	0.00067	"	0.167		67	30-130			
2-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669651 - 3550B**

**LCS (LCS-L669651)**

Prepared: 03/14/2023 Analyzed: 03/15/2023

Chrysene	0.124	0.00067	mg/Kg	0.167		74.2	30-130			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333	60.3		33-115			
Surrogate: Nitrobenzene-d5	58.2		"	0.333	58.2		29-110			
Surrogate: 4-Terphenyl-d14	60		"	0.333	60		33-122			

**LRB (LRB-L669651)**

Prepared: 03/14/2023 Analyzed: 03/15/2023

Fluorene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	62.4		"	0.333	62.4		33-122			
Surrogate: Nitrobenzene-d5	55.8		"	0.333	55.8		29-110			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333	58.2		33-115			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

**Notes and Definitions**

U Sample is Non-Detect.

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.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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



March 09, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. March 08, 2023. This project is associated with Origins project number Y303209-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01@10'	Y303209-01	Water	March 8, 2023 13:15	03/08/2023 15:13

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4303209

Client: Eagle

Client Project ID: Ditlev-Simonsen GU

Checklist Completed by: EMS

Shipped Via: HD 2 OSA

Date/time completed: 3/8/23

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

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.7 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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"/>			NC
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.

DE  
 Reviewed by (Project Manager)

03/08/2023  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**GW-01@10'**

**3/8/2023 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303209-01 (Water)**

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

1,2,4-Trimethylbenzene	140	20.0	ug/L	10	B3C0724	SM	03/08/2023	03/09/2023	
1,3,5-Trimethylbenzene	103	2.00	"	1	"	SM	"	03/08/2023	
Benzene	182	10.0	"	10	"	SM	"	03/09/2023	
Ethylbenzene	21.9	1.00	"	1	"	SM	"	03/08/2023	
Naphthalene	16.7	2.00	"	"	"	SM	"	"	
Toluene	ND	1.00	"	"	"	SM	"	"	U
Xylenes, total	315	10.0	"	10	"	SM	"	03/09/2023	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	03/08/2023	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0724 - EPA 5030B (Water)**

**Blank (B3C0724-BLK1)**

Prepared: 03/07/2023 Analyzed: 03/08/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.8		70-130			
Surrogate: Toluene-d8	66		"	62.5	105		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0724 - EPA 5030B (Water)

**LCS (B3C0724-BS1)**

Prepared: 03/07/2023 Analyzed: 03/08/2023

1,2,4-Trimethylbenzene	47.0	2.00	ug/L	50.0		94.1	70-130			
1,3,5-Trimethylbenzene	45.4	2.00	"	50.0		90.9	70-130			
Benzene	40.8	1.00	"	50.0		81.6	70-130			
Ethylbenzene	42.6	1.00	"	50.0		85.2	70-130			
m,p-Xylene	80.6	2.00	"	100		80.6	70-130			
Naphthalene	46.2	2.00	"	50.0		92.5	70-130			
o-Xylene	40.7	1.00	"	50.0		81.4	70-130			
Toluene	44.4	1.00	"	50.0		88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0724 - EPA 5030B (Water)

Matrix Spike (B3C0724-MS1)	Source: Y303139-01			Prepared: 03/07/2023 Analyzed: 03/08/2023						
1,2,4-Trimethylbenzene	40.7	2.00	ug/L	50.0	0.520	80.3	70-130			
1,3,5-Trimethylbenzene	38.8	2.00	"	50.0	0.380	76.9	70-130			
Benzene	28.1	1.00	"	50.0	ND	56.2	70-130			QM-07
Ethylbenzene	34.4	1.00	"	50.0	ND	68.7	70-130			QM-07
m,p-Xylene	68.6	2.00	"	100	1.04	67.6	70-130			QM-07
Naphthalene	34.1	2.00	"	50.0	0.460	67.2	70-130			QM-07
o-Xylene	36.3	1.00	"	50.0	ND	72.6	70-130			
Toluene	35.5	1.00	"	50.0	ND	70.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.3	70-130			
Surrogate: Toluene-d8	77		"	62.5		123	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C0724 - EPA 5030B (Water)**

Matrix Spike Dup (B3C0724-MSD1)	Source: Y303139-01			Prepared: 03/07/2023 Analyzed: 03/08/2023						
1,2,4-Trimethylbenzene	56.6	2.00	ug/L	50.0	0.520	112	70-130	32.7	20	QR-02
1,3,5-Trimethylbenzene	53.4	2.00	"	50.0	0.380	106	70-130	31.6	20	QR-02
Benzene	48.0	1.00	"	50.0	ND	95.9	70-130	52.2	20	QR-02
Ethylbenzene	52.4	1.00	"	50.0	ND	105	70-130	41.5	20	QR-02
m,p-Xylene	105	2.00	"	100	1.04	104	70-130	42.0	20	QR-02
Naphthalene	50.6	2.00	"	50.0	0.460	100	70-130	39.1	20	QR-02
o-Xylene	55.2	1.00	"	50.0	ND	110	70-130	41.2	20	QR-02
Toluene	53.6	1.00	"	50.0	ND	107	70-130	40.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.4	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

### Notes and Definitions

U Sample is Non-Detect.

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.*



April 12, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Ditlev-Simonsen GU 2 OSA Project Number - [none]**

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 OSA received by Origins Laboratory, Inc. March 10, 2023. This project is associated with Origins project number Y303268-01.

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.

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

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



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-W01@7'	Y303268-01	Soil	March 10, 2023 11:30	03/10/2023 13:40
PW-W01@14'	Y303268-02	Soil	March 10, 2023 11:31	03/10/2023 13:40
PW-W02@7'	Y303268-03	Soil	March 10, 2023 11:32	03/10/2023 13:40
PW-W02@14'	Y303268-04	Soil	March 10, 2023 11:33	03/10/2023 13:40
PW-S01@7'	Y303268-05	Soil	March 10, 2023 11:34	03/10/2023 13:40
PW-S01@14'	Y303268-06	Soil	March 10, 2023 11:35	03/10/2023 13:40
PW-S02@7'	Y303268-07	Soil	March 10, 2023 11:36	03/10/2023 13:40
PW-S02@14'	Y303268-08	Soil	March 10, 2023 11:37	03/10/2023 13:40
PW-S03@7'	Y303268-09	Soil	March 10, 2023 11:38	03/10/2023 13:40
PW-S03@14'	Y303268-10	Soil	March 10, 2023 11:39	03/10/2023 13:40
PW-E01@7'	Y303268-11	Soil	March 10, 2023 11:40	03/10/2023 13:40
PW-E01@14'	Y303268-12	Soil	March 10, 2023 11:41	03/10/2023 13:40
PW-E02@7'	Y303268-13	Soil	March 10, 2023 11:42	03/10/2023 13:40
PW-E02@14'	Y303268-14	Soil	March 10, 2023 11:43	03/10/2023 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.*

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-E03@7'	Y303268-15	Soil	March 10, 2023 11:44	03/10/2023 13:40
PW-E03@14'	Y303268-16	Soil	March 10, 2023 11:45	03/10/2023 13:40
PW-N01@7'	Y303268-17	Soil	March 10, 2023 11:46	03/10/2023 13:40
PW-N01@14'	Y303268-18	Soil	March 10, 2023 11:47	03/10/2023 13:40
PW-N02@7'	Y303268-19	Soil	March 10, 2023 11:48	03/10/2023 13:40
PW-N02@14'	Y303268-20	Soil	March 10, 2023 11:49	03/10/2023 13:40
PW-N03@7'	Y303268-21	Soil	March 10, 2023 11:50	03/10/2023 13:40
PW-N03@14'	Y303268-22	Soil	March 10, 2023 11:51	03/10/2023 13:40
PW-N04@7'	Y303268-23	Soil	March 10, 2023 11:52	03/10/2023 13:40
PW-N04@14'	Y303268-24	Soil	March 10, 2023 11:53	03/10/2023 13:40

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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~~Unfiled~~ 4303208

Project Manager: D. COLOCCIA  
 Project Name: Ditlev-Simonsen GU 2 OSA  
 Project Number: HA  
 Samples Collected By: HA

Client: Eagle Environmental (Ouy)  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-453-0414  
 Email Address: dcoloccia@eagle-env.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
PN-N01007	3/10/23	1130	1	X			X		HA	Full PAH, TEX, 1
PN-N01011		1131							HA	135 Traps, Cd, Cu, Ni, 2
PN-N01007		1132							HA	added to all samples
PN-N01014		1133							HA	per the email
PN-S01007		1134							HA	Storm Allie on
PN-S01014		1135							HA	3/21/23 sp
PN-S01007		1136							HA	
PN-S02004		1137							HA	
PN-S03007		1138							HA	
PN-S03014		1139							HA	
Relinquished By: <i>HA</i>	Date: 3/10/23	Time: 1240	Received By: <i>WJ</i>	Date: 3/10/23	Time: 1240	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"/>				
Relinquished By:	Date:	Time:	Received By:	Date:	Time:					

Temp Received: 0 Date Results Needed

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

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

# ORIGINS

LABORATORY, INC Impacted 4832708

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page 2 of 3

Client: Eagle Environmental (only)  
 Address: 8000 W 44th Ave.  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0494  
 Email Address: dan.coloccia@origins-lab.com

Project Manager: D. Coloccia  
 Project Name: DITLEV-SIMONSEN GU 2 OSA  
 Project Number: -  
 Samples Collected By: HA

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis (any)	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summer #			Other
PN-ED107	3/10/23	1140	2	X				X					
PN-ED1014		1141											
PN-ED2007		1142											
PN-ED7014		1143											
PN-ED807		1144											
PN-ED9014		1145											
PN-N0107		1146											
PN-N01014		1147											
PN-N02007		1148											
PN-N02014		1149											
Relinquished By: <i>Handwritten</i>	Date: 3/10/23	Time: 1340	Received By: <i>Handwritten</i>	Date: 3/10/23	Time: 1340	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"/>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Temp Received: *Handwritten* Date Results Needed

Origins Laboratory, Inc.

*Handwritten Signature*

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4303208

Client: Eagle

Client Project ID: Ditlev-Simonsen GU 2 O

Checklist Completed by: EHS/TSM

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

Date/time completed: 3/10/23

Airbill #: NA

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

Water

Other:

Cooler Number/Temperature: C / 10 °C / °C / °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> ?	/			
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 Na <sub>2</sub> O <sub>2</sub> +NaOH, ZnAc+NaOH)			/	

<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 3/10/23

Origins Laboratory, Inc.

*[Signature]*

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@7'**

**3/10/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	295		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	11.3		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	03/10/2023	
Surrogate: Toluene-d8	94.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	131 %		70-130			"	"	"	S-GC

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-W01@7'

3/10/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	<b>0.894</b>		0.823	"	"	"	"	"	
Sodium	<b>19.7</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>1.59</b>	<b>0.0218</b>	0.0402	mg/Kg	20	L669818	03/15/2023	03/15/2023	
2-Methylnaphthalene	<b>3.24</b>	<b>0.0387</b>	0.0402	"	"	"	"	"	
Acenaphthene	<b>0.145</b>	<b>0.00608</b>	0.0134	"	"	"	"	"	
Anthracene	<b>0.0295</b>	<b>0.00668</b>	0.0134	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"	
Chrysene	<b>0.0239</b>	<b>0.0125</b>	0.0134	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"	
Fluoranthene	<b>0.0394</b>	<b>0.00788</b>	0.0134	"	"	"	"	"	
Fluorene	<b>0.241</b>	<b>0.00572</b>	0.0134	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"	
Naphthalene	<b>0.82</b>	<b>0.029</b>	0.0402	"	"	"	"	"	
Pyrene	<b>0.0373</b>	<b>0.0129</b>	0.0134	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	54.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@7'**

**3/10/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-01 (Soil)**

**PAH by 8270D SIM**

Surrogate: Nitrobenzene-d5	55.8 %		29-110			8 18	03/15/2023	03/15/2023	
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**pH in Soil by 9045D**

pH	8.54			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	26.9			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.48		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.22		0.0930	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	201		9.30	"	"	"	"	"	
Cadmium	0.164		0.0930	"	"	"	"	"	
Copper	10.4		9.30	"	"	"	"	"	
Nickel	12.6		9.30	"	"	"	"	"	
Selenium	0.178		0.0930	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@14'**

**3/10/2023 11:31:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	35.0		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	18.0		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "  
 Surrogate: Toluene-d8 93.0 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 137 % 70-130 " " " S-GC

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-W01@14'

3/10/2023 11:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0111	0.00109	0.00201	mg/Kg	1	L669818	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.00989	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00325	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00189	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00198	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000957	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000888	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00369	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00247	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0299	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00855	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00627	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	47 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.4 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W01@14'**

**3/10/2023 11:31:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-02 (Soil)**

**PAH by 8270D SIM**

Surrogate: Nitrobenzene-d5	53.9 %		29-110			8 18	03/15/2023	03/15/2023	
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**pH in Soil by 9045D**

pH	8.53			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	16.8			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.942		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.91		0.0891	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	207		8.91	"	"	"	"	"	
Cadmium	0.203		0.0891	"	"	"	"	"	
Copper	10.7		8.91	"	"	"	"	"	
Nickel	13.4		8.91	"	"	"	"	"	
Selenium	0.441		0.0891	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@7'**

**3/10/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@7'**

**3/10/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.31		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.12		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669818	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000907	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000951	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000712	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000996	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000797	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	48.5 %		33-115			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@7'**

**3/10/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-03 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	54.9 %		33-122			8 18	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	48.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	4.18			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.514		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.10		0.0859	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	127		8.59	"	"	"	"	"	
Cadmium	0.214		0.0859	"	"	"	"	"	
Copper	9.22		8.59	"	"	"	"	"	
Nickel	11.0		8.59	"	"	"	"	"	
Selenium	0.168		0.0859	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@14'**

**3/10/2023 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	221		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 87.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	2.92		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "

Surrogate: Toluene-d8 96.3 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@14'**

**3/10/2023 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.01		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	1.67		0.823	"	"	"	"	"	
Sodium	11.7		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669818	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.00199	0.00194	0.00201	"	"	"	"	"	J
Acenaphthene	0.000362	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00797	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	40.2 %		33-115			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-W02@14'**

**3/10/2023 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-04 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	56.8 %		33-122			8 18	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	45.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	10.1			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.187		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.59		0.0950	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	215		9.50	"	"	"	"	"	
Cadmium	0.226		0.0950	"	"	"	"	"	
Copper	10.8		9.50	"	"	"	"	"	
Nickel	14.8		9.50	"	"	"	"	"	
Selenium	0.524		0.0950	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@7'**

**3/10/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@7'**

**3/10/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.52		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	4.34		0.823	"	"	"	"	"	
Sodium	15.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L669818	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@7'**

**3/10/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-05 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	43.4 %		33-115			8	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	60.2 %		33-122			18	"	"	"
Surrogate: Nitrobenzene-d5	48.5 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	7.78			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.33		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.34		0.0896	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	174		8.96	"	"	"	"	"	"
Cadmium	0.170		0.0896	"	"	"	"	"	"
Copper	10.4		8.96	"	"	"	"	"	"
Nickel	12.7		8.96	"	"	"	"	"	"
Selenium	0.465		0.0896	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@14'**

**3/10/2023 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	137		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 93.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	2.55		0.0500	mg/kg	25	B3C1037	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	0.167		0.00200	"	1	"	"	03/10/2023	
Benzene	0.00250		0.00200	"	"	"	"	"	
Ethylbenzene	0.0747		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.307		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.78		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "

Surrogate: Toluene-d8 95.1 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@14'**

**3/10/2023 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Magnesium	ND		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	12.2		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.383	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.753	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0339	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00396	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00374	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00365	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00315	0.00293	0.00335	"	"	"	"	"	J
Benzo(k)fluoranthene	0.00235	0.00219	0.00335	"	"	"	"	"	J
Chrysene	0.00653	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.024	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.0567	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.229	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0348	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 62.3 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S01@14'**

**3/10/2023 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-06 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	77.8 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	25.1			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.33		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.11		0.0895	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	271		8.95	"	"	"	"	"	
Cadmium	0.288		0.0895	"	"	"	"	"	
Copper	10.1		8.95	"	"	"	"	"	
Nickel	11.8		8.95	"	"	"	"	"	
Selenium	0.235		0.0895	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@7'**

**3/10/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-07 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@7'**

**3/10/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-07 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.09		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	1.80		0.823	"	"	"	"	"	
Sodium	1.48		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00122	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00108	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000988	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000494	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00528	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0228	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0024	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	46.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	60.3 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@7'**

**3/10/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-07 (Soil)**

**PAH by 8270D SIM**

Surrogate: Nitrobenzene-d5	50.9 %	29-110				00 08	03/15/2023	03/15/2023	
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**pH in Soil by 9045D**

pH	8.21			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	1.06			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.608	0.00500		mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.93	0.0893		mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	169	8.93		"	"	"	"	"	
Cadmium	0.103	0.0893		"	"	"	"	"	
Copper	ND	8.93		"	"	"	"	"	
Nickel	ND	8.93		"	"	"	"	"	
Selenium	0.172	0.0893		"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@14'**

**3/10/2023 11:37:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@14'**

**3/10/2023 11:37:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-08 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.50		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	4.81		0.823	"	"	"	"	"	
Sodium	6.24		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S02@14'**

**3/10/2023 11:37:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-08 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	46.1 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	60.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.13			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	3.06			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.49		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	7.49		0.0861	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	221		8.61	"	"	"	"	"	
Cadmium	0.290		0.0861	"	"	"	"	"	
Copper	15.5		8.61	"	"	"	"	"	
Nickel	16.6		8.61	"	"	"	"	"	
Selenium	0.623		0.0861	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S03@7'**

**3/10/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S03@7'**

**3/10/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-09 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.07		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	2.64		0.823	"	"	"	"	"	
Sodium	1.70		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S03@7'**

**3/10/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-09 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	51.4 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	59.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	1.00			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.816		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.96		0.0950	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	287		9.50	"	"	"	"	"	
Cadmium	0.177		0.0950	"	"	"	"	"	
Copper	9.95		9.50	"	"	"	"	"	
Nickel	11.8		9.50	"	"	"	"	"	
Selenium	0.109		0.0950	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S03@14'**

**3/10/2023 11:39:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	67.0		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0256		0.00200	mg/kg	1	B3C1037	03/10/2023	03/10/2023	
1,3,5-Trimethylbenzene	0.0110		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	2.00		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "  
 Surrogate: Toluene-d8 94.2 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-S03@14'

3/10/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-10 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	3.34		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	6.37		0.823	"	"	"	"	"	
Sodium	3.43		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00347	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.00504	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00178	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00121	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00844	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	34.7 %		33-115			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-S03@14'**

**3/10/2023 11:39:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-10 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	53.1 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	39.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	1.56			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.30		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.33		0.0988	mg/kg	10	B3C1030	03/10/2023	03/10/2023	
Barium	258		9.88	"	"	"	"	"	
Cadmium	0.230		0.0988	"	"	"	"	"	
Copper	11.2		9.88	"	"	"	"	"	
Nickel	13.7		9.88	"	"	"	"	"	
Selenium	0.791		0.0988	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E01@7'**

**3/10/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1870		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	669		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	94.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	2.17		0.0500	mg/kg	25	B3C1037	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	03/11/2023	U
Benzene	0.00534		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	17.5		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	03/11/2023	
Surrogate: Toluene-d8	92.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	139 %		70-130			"	"	"	S-GC

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E01@7'**

**3/10/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.09		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	4.59		0.823	"	"	"	"	"	
Sodium	2.76		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.842	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.689	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0693	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00731	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0104	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0442	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.213	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.248	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0244	0.00322	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	55 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.4 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E01@7'**

**3/10/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-11 (Soil)**

**PAH by 8270D SIM**

Surrogate: Nitrobenzene-d5	60.2 %		29-110			00 08	03/15/2023	03/15/2023	
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**pH in Soil by 9045D**

pH	7.88			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	1.51			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.778		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.09		0.0944	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	221		9.44	"	"	"	"	"	
Cadmium	0.191		0.0944	"	"	"	"	"	
Copper	11.1		9.44	"	"	"	"	"	
Selenium	0.234		0.0944	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	15.4		9.06	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E01@14'**

**3/10/2023 11:41:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	947		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	352		100	"	"	"	"	"	

Surrogate: o-Terphenyl	85.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.330		0.00200	mg/kg	1	B3C1037	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	0.00316		0.00200	"	"	"	"	"	
Benzene	0.00992		0.00200	"	"	"	"	"	
Ethylbenzene	0.00334		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0279		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	50.8		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	03/11/2023	
Surrogate: Toluene-d8	90.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	208 %		70-130			"	"	"	S-GC

**Metals by Saturated Paste by EPA 6010**

Calcium	0.967		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-E01@14'

3/10/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-12 (Soil)

**Metals by Saturated Paste by EPA 6010**

Magnesium	2.77		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	12.7		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	1.54	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	2.07	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0952	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.0112	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0186	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00376	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.06	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00236	0.00197	0.00335	"	"	"	"	"	J
Fluorene	0.304	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.671	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0343	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 55.8 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E01@14'**

**3/10/2023 11:41:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-12 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	62.2 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	64.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.88			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	9.32			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.32		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.00		0.0858	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	205		8.58	"	"	"	"	"	
Cadmium	0.190		0.0858	"	"	"	"	"	
Copper	10.9		8.58	"	"	"	"	"	
Selenium	0.877		0.0858	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	15.2		8.80	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@7'**

**3/10/2023 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-13 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1810		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	552		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 87.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	15.9		0.500	mg/kg	250	B3C1037	03/10/2023	03/12/2023	
1,3,5-Trimethylbenzene	4.44		0.0500	"	25	"	"	03/11/2023	
Benzene	0.920		0.0500	"	"	"	"	"	
Ethylbenzene	1.65		0.0500	"	"	"	"	"	
Toluene	0.00212		0.00200	"	1	"	"	03/11/2023	
Xylenes, total	12.8		0.00200	"	"	"	"	03/11/2023	
Gasoline Range Hydrocarbons	51.7		5.00	"	25	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "

Surrogate: Toluene-d8 98.2 % 70-130 " " 03/12/2023

Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " 03/11/2023

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@7'**

**3/10/2023 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-13 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Magnesium	4.61		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	22.0		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	5.58	0.0218	0.0402	mg/Kg	20	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	9.78	0.0387	0.0402	"	"	"	"	"	
Acenaphthene	0.379	0.00608	0.0134	"	"	"	"	"	
Anthracene	0.0522	0.00668	0.0134	"	"	"	"	"	
Benzo(a)anthracene	0.0673	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	0.0138	0.00936	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"	
Chrysene	0.189	0.0125	0.0134	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"	
Fluoranthene	ND	0.00788	0.0134	"	"	"	"	"	
Fluorene	0.974	0.00572	0.0134	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"	
Naphthalene	2.82	0.029	0.0402	"	"	"	"	"	
Pyrene	0.106	0.0129	0.0134	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@7'**

**3/10/2023 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-13 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	49.5 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	51.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	108 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.83			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	13.8			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.11		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.66		0.0954	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	223		9.54	"	"	"	"	"	
Cadmium	0.185		0.0954	"	"	"	"	"	
Copper	11.8		9.54	"	"	"	"	"	
Selenium	0.346		0.0954	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@7'**

**3/10/2023 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-13 (Soil)**

**Total Metals by EPA 6020B**

Nickel	16.3		9.15	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@14'**

**3/10/2023 11:43:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-14 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	905		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	226		100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	23.9		0.500	mg/kg	250	B3C1037	03/10/2023	03/12/2023	
1,3,5-Trimethylbenzene	3.97		0.0500	"	25	"	"	03/11/2023	
Benzene	0.381		0.00200	"	1	"	"	03/11/2023	
Ethylbenzene	2.31		0.0500	"	25	"	"	03/11/2023	
Toluene	ND		0.00200	"	1	"	"	03/11/2023	U
Xylenes, total	18.3		0.00200	"	"	"	"	03/11/2023	
Gasoline Range Hydrocarbons	65.1		5.00	"	25	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.1 %		70-130			"	"	03/12/2023	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	03/11/2023	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.736		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@14'**

**3/10/2023 11:43:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-14 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Magnesium	1.79		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	12.9		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	1.7	0.0218	0.0402	mg/Kg	20	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	3.13	0.0387	0.0402	"	"	"	"	"	
Acenaphthene	160	6.08	13.4	"	"	"	"	"	
Anthracene	22.7	6.68	13.4	"	"	"	"	"	
Benzo(a)anthracene	0.0249	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	11.5	9.36	13.4	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	11.7	13.4	"	"	"	"	"	
Benzo(k)fluoranthene	ND	8.74	13.4	"	"	"	"	"	
Chrysene	79.8	12.5	13.4	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	12.3	13.4	"	"	"	"	"	
Fluoranthene	24.2	7.88	13.4	"	"	"	"	"	
Fluorene	324	5.72	13.4	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	12.5	13.4	"	"	"	"	"	
Naphthalene	665	29	40.2	"	"	"	"	"	
Pyrene	63.1	12.9	13.4	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 68.1 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E02@14'**

**3/10/2023 11:43:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-14 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	75.1 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	66 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.69			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	11.5			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.15		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.52		0.0931	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	223		9.31	"	"	"	"	"	
Cadmium	0.180		0.0931	"	"	"	"	"	
Copper	ND		9.31	"	"	"	"	"	
Selenium	0.311		0.0931	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	14.8		9.18	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E03@7'**

**3/10/2023 11:44:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-15 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	120		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	120		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	91.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0613		0.00200	mg/kg	1	B3C1037	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	0.0226		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0363		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.19		0.200	"	"	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	03/11/2023	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-E03@7'

3/10/2023 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-15 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	1.83		0.823	"	"	"	"	"	
Sodium	14.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0331	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.0408	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00264	0.00234	0.00335	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.00978	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	62.4 %		33-115			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E03@7'**

**3/10/2023 11:44:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-15 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	67.9 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	54.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.47			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	13.5			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.42		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.68		0.0933	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	224		9.33	"	"	"	"	"	
Cadmium	0.205		0.0933	"	"	"	"	"	
Copper	11.4		9.33	"	"	"	"	"	
Selenium	0.238		0.0933	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	14.8		8.44	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E03@14'**

**3/10/2023 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-16 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1380		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	371		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 90.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	22.9		0.500	mg/kg	250	B3C1037	03/10/2023	03/12/2023	
1,3,5-Trimethylbenzene	6.53		0.0500	"	25	"	"	03/11/2023	
Benzene	0.209		0.00200	"	1	"	"	03/11/2023	
Ethylbenzene	2.18		0.0500	"	25	"	"	03/11/2023	
Toluene	0.188		0.0500	"	"	"	"	"	
Xylenes, total	24.1		0.500	"	250	"	"	03/12/2023	
Gasoline Range Hydrocarbons	85.5		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 96.8 % 70-130 " " 03/12/2023

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " 03/11/2023

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E03@14'**

**3/10/2023 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-16 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Magnesium	0.896		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	12.8		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	1.34	0.0218	0.0402	mg/Kg	20	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	2.48	0.0387	0.0402	"	"	"	"	"	
Acenaphthene	0.134	0.00608	0.0134	"	"	"	"	"	
Anthracene	0.0298	0.00668	0.0134	"	"	"	"	"	
Benzo(a)anthracene	0.0318	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	0.0157	0.00936	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"	
Chrysene	0.0775	0.0125	0.0134	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"	
Fluoranthene	0.0533	0.00788	0.0134	"	"	"	"	"	
Fluorene	0.274	0.00572	0.0134	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"	
Naphthalene	0.608	0.029	0.0402	"	"	"	"	"	
Pyrene	0.0827	0.0129	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 59.5 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-E03@14'**

**3/10/2023 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-16 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	64 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.91			pH Units	1	B3C1311	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	15.8			SAR	1	B3C1302	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.16		0.00500	mmhos/cm	1	B3C1311	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	8.60		0.0930	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	217		9.30	"	"	"	"	"	
Cadmium	0.321		0.0930	"	"	"	"	"	
Copper	16.1		9.30	"	"	"	"	"	
Selenium	0.519		0.0930	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	18.1		8.66	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N01@7'**

**3/10/2023 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-17 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1029	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1037	03/10/2023	03/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	03/11/2023	
Surrogate: Toluene-d8	94.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-N01@7'

3/10/2023 11:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-17 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	4.19		0.823	"	"	"	"	"	
Sodium	16.9		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0036	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.00326	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00084	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00109	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	42.4 %		33-115			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N01@7'**

**3/10/2023 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-17 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	48.8 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	44.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.57			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	11.1			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.67		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.79		0.0960	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	208		9.60	"	"	"	"	"	
Cadmium	0.193		0.0960	"	"	"	"	"	
Copper	11.7		9.60	"	"	"	"	"	
Selenium	0.211		0.0960	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	15.5		8.73	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N01@14'**

**3/10/2023 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-18 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>2230</b>		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	<b>1010</b>		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl      105 %      50-150      "      "      "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>39.6</b>		0.500	mg/kg	250	B3C1039	03/10/2023	03/12/2023	
1,3,5-Trimethylbenzene	<b>8.97</b>		0.0500	"	25	"	"	03/11/2023	
Benzene	<b>0.750</b>		0.0500	"	"	"	"	"	
Ethylbenzene	<b>6.83</b>		0.0500	"	"	"	"	"	
Toluene	<b>0.0400</b>		0.00200	"	1	"	"	03/10/2023	
Xylenes, total	<b>71.3</b>		0.500	"	250	"	"	03/12/2023	
Gasoline Range Hydrocarbons	<b>246</b>		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4      104 %      70-130      "      "      "

Surrogate: Toluene-d8      93.9 %      70-130      "      "      03/12/2023

Surrogate: 4-Bromofluorobenzene      115 %      70-130      "      "      03/11/2023

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.598</b>		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-N01@14'

3/10/2023 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-18 (Soil)

**Metals by Saturated Paste by EPA 6010**

Magnesium	1.83		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	16.5		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	3.09	0.0218	0.0402	mg/Kg	20	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	5.52	0.0387	0.0402	"	"	"	"	"	
Acenaphthene	0.254	0.00608	0.0134	"	"	"	"	"	
Anthracene	0.0413	0.00668	0.0134	"	"	"	"	"	
Benzo(a)anthracene	0.067	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	0.0327	0.00936	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	0.019	0.0117	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	0.0111	0.00874	0.0134	"	"	"	"	"	J
Chrysene	0.146	0.0125	0.0134	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"	
Fluoranthene	0.0618	0.00788	0.0134	"	"	"	"	"	
Fluorene	0.558	0.00572	0.0134	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"	
Naphthalene	1.47	0.029	0.0402	"	"	"	"	"	
Pyrene	0.166	0.0129	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 63.7 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N01@14'**

**3/10/2023 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-18 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	69.2 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	75.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.53			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	15.0			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.57		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.32		0.0914	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	243		9.14	"	"	"	"	"	
Cadmium	0.201		0.0914	"	"	"	"	"	
Copper	ND		9.14	"	"	"	"	"	
Selenium	0.367		0.0914	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	10.6		9.14	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@7'**

**3/10/2023 11:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-19 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0176		0.00200	mg/kg	1	B3C1039	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	0.00714		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0135		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@7'**

**3/10/2023 11:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-19 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.740		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	3.33		0.823	"	"	"	"	"	
Sodium	18.2		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0047	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.00764	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000443	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000568	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00071	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00232	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00094	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	47 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.8 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@7'**

**3/10/2023 11:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-19 (Soil)**

**PAH by 8270D SIM**

Surrogate: Nitrobenzene-d5	43 %		29-110			00 08	03/15/2023	03/15/2023	
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**pH in Soil by 9045D**

pH	7.71			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	12.8			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.76		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.51		0.0944	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	181		9.44	"	"	"	"	"	
Cadmium	0.175		0.0944	"	"	"	"	"	
Copper	10.3		9.44	"	"	"	"	"	
Selenium	0.202		0.0944	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	14.7		8.98	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@14'**

**3/10/2023 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-20 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	717		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	333		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 83.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	9.35		0.0500	mg/kg	25	B3C1039	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	3.57		0.0500	"	"	"	"	"	
Benzene	0.307		0.00200	"	1	"	"	03/10/2023	
Ethylbenzene	1.68		0.0500	"	25	"	"	03/11/2023	
Toluene	0.0119		0.00200	"	1	"	"	03/10/2023	
Xylenes, total	10.5		0.0500	"	25	"	"	03/11/2023	
Gasoline Range Hydrocarbons	51.7		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 142 % 70-130 " " " S-04

Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@14'**

**3/10/2023 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-20 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Magnesium	1.24		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	12.6		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.491	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	0.904	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0564	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.0158	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0179	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.0121	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00645	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.00445	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0423	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.0195	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.121	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00334	0.00314	0.00335	"	"	"	"	"	J
Naphthalene	0.154	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.061	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 50.6 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N02@14'**

**3/10/2023 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-20 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	64.2 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	56.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.00			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	14.2			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.17		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.42		0.0946	mg/kg	10	B3C1031	03/10/2023	03/10/2023	
Barium	195		9.46	"	"	"	"	"	
Cadmium	0.171		0.0946	"	"	"	"	"	
Copper	10.7		9.46	"	"	"	"	"	
Selenium	0.303		0.0946	"	"	"	"	"	

**Total Metals by EPA 6020B**

Nickel	15.1		9.55	mg/kg	10	B3D0429	04/04/2023	04/07/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N03@7'**

**3/10/2023 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-21 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1039	03/10/2023	03/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	03/10/2023	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N03@7'**

**3/10/2023 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-21 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	10.4		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	8.95		0.823	"	"	"	"	"	
Sodium	12.2		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N03@7'**

**3/10/2023 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-21 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	49.5 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	59.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.79			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	3.91			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.23		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.86		0.0845	mg/kg	10	B3C1032	03/10/2023	03/10/2023	
Barium	194		8.45	"	"	"	"	"	
Cadmium	0.178		0.0845	"	"	"	"	"	
Copper	9.44		8.45	"	"	"	"	"	
Nickel	11.7		8.45	"	"	"	"	"	
Selenium	0.262		0.0845	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N03@14'**

**3/10/2023 11:51:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-22 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	108		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	8.46		0.0500	mg/kg	25	B3C1039	03/10/2023	03/11/2023	
1,3,5-Trimethylbenzene	0.313		0.00200	"	1	"	"	03/10/2023	
Benzene	0.0404		0.00200	"	"	"	"	"	
Ethylbenzene	0.191		0.00200	"	"	"	"	"	
Toluene	0.0132		0.00200	"	"	"	"	"	
Xylenes, total	0.633		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	43.3		5.00	"	25	"	"	03/11/2023	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 162 % 70-130 " " " S-04

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	0.518		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-N03@14'

3/10/2023 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-22 (Soil)

**Metals by Saturated Paste by EPA 6010**

Magnesium	1.09		0.823	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Sodium	8.68		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.794	0.00549	0.0101	mg/Kg	5	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	1.31	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0786	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.0228	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0297	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.0158	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.0107	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.00718	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0515	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.0406	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.19	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00449	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.278	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0918	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 63.9 % 33-115 " " "

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N03@14'**

**3/10/2023 11:51:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-22 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	72.3 %		33-122			00 08	03/15/2023	03/15/2023	
Surrogate: Nitrobenzene-d5	70.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.11			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	9.68			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.823		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.42		0.0918	mg/kg	10	B3C1032	03/10/2023	03/10/2023	
Barium	218		9.18	"	"	"	"	"	
Cadmium	0.165		0.0918	"	"	"	"	"	
Copper	11.2		9.18	"	"	"	"	"	
Nickel	13.7		9.18	"	"	"	"	"	
Selenium	0.339		0.0918	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N04@7'**

**3/10/2023 11:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-23 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1039	03/10/2023	03/12/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	03/10/2023	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-N04@7'

3/10/2023 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-23 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	19.5		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	43.7		0.823	"	"	"	"	"	
Sodium	46.7		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N04@7'**

**3/10/2023 11:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-23 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	52.4 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	62.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.72			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	8.30			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.642		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.97		0.0850	mg/kg	10	B3C1032	03/10/2023	03/10/2023	
Barium	185		8.50	"	"	"	"	"	
Cadmium	0.168		0.0850	"	"	"	"	"	
Copper	9.10		8.50	"	"	"	"	"	
Nickel	11.9		8.50	"	"	"	"	"	
Selenium	0.188		0.0850	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N04@14'**

**3/10/2023 11:53:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303268-24 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C1036	03/10/2023	03/11/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	88.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1039	03/10/2023	03/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

PW-N04@14'

3/10/2023 11:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303268-24 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.30		0.499	meq/L	10	[CALC]	03/13/2023	03/14/2023	
Magnesium	4.64		0.823	"	"	"	"	"	
Sodium	21.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L670008	03/15/2023	03/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00117	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00143	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00553	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00511	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00449	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00244	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00752	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00139	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00588	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000633	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00205	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0235	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PW-N04@14'**

**3/10/2023 11:53:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303268-24 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	43.3 %		33-115			00 08	03/15/2023	03/15/2023	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.39			pH Units	1	B3C1312	03/13/2023	03/14/2023	
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**SAR by 20B Saturated Paste**

SAR	12.4			SAR	1	B3C1303	03/13/2023	03/14/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B3C1312	03/13/2023	03/14/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.76		0.0959	mg/kg	10	B3C1032	03/10/2023	03/10/2023	
Barium	237		9.59	"	"	"	"	"	
Cadmium	0.169		0.0959	"	"	"	"	"	
Copper	10.8		9.59	"	"	"	"	"	
Nickel	12.1		9.59	"	"	"	"	"	
Selenium	0.167		0.0959	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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
<b>Batch B3C1029 - EPA 3580</b>										
<b>Blank (B3C1029-BLK1)</b>										
					Prepared: 03/10/2023 Analyzed: 03/10/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.2	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1029 - EPA 3580**

**LCS (B3C1029-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1029 - EPA 3580**

<b>Matrix Spike (B3C1029-MS1)</b>	<b>Source: Y303265-01</b>			<b>Prepared: 03/10/2023 Analyzed: 03/10/2023</b>						
Diesel (C10-C28)	967	50.0	mg/kg	1000	85.7	88.2	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
<i>Surrogate: o-Terphenyl</i>	43		"	49.8		85.8	50-150			

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 Project Number: [none]  
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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C1029 - EPA 3580**

<b>Matrix Spike Dup (B3C1029-MSD1)</b>	<b>Source: Y303265-01</b>		<b>Prepared: 03/10/2023 Analyzed: 03/10/2023</b>							
Diesel (C10-C28)	960	50.0	mg/kg	1000	85.7	87.4	70-130	0.763	35	
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130	4.33	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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
<b>Batch B3C1036 - EPA 3580</b>										
<b>Blank (B3C1036-BLK1)</b>										
					Prepared: 03/10/2023 Analyzed: 03/11/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.7	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C1036 - EPA 3580**

**LCS (B3C1036-BS1)**

Prepared: 03/10/2023 Analyzed: 03/11/2023

Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	864	200	"	1000		86.4	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1036 - EPA 3580**

<b>Matrix Spike (B3C1036-MS1)</b>	<b>Source: Y303268-18</b>			Prepared: 03/10/2023 Analyzed: 03/11/2023						
Diesel (C10-C28)	3000	50.0	mg/kg	1000	2230	76.9	70-130			
Residual Range Organics (C28-C40)	1840	200	"	1000	1010	83.4	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.4	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C1036 - EPA 3580</b>										
<b>Matrix Spike Dup (B3C1036-MSD1)</b>		<b>Source: Y303268-18</b>			Prepared: 03/10/2023 Analyzed: 03/11/2023					
Diesel (C10-C28)	2780	50.0	mg/kg	1000	2230	55.2	70-130	7.51	35	QM-07
Residual Range Organics (C28-C40)	1770	200	"	1000	1010	75.8	70-130	4.21	35	
Surrogate: o-Terphenyl	47		"	49.8		94.3	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1037 - EPA 5030 (soil)**

**Blank (B3C1037-BLK1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

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	0.14		"	0.125	113		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.1		70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1037 - EPA 5030 (soil)**

**LCS (B3C1037-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0956	0.00200	"	0.100		95.6	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100		97.0	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0960	0.00200	"	0.100		96.0	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1037 - EPA 5030 (soil)

Matrix Spike (B3C1037-MS1)	Source: Y303265-01			Prepared: 03/10/2023 Analyzed: 03/10/2023						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	0.000520	108	70-130			
Benzene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.117	0.00380	"	0.100	0.000540	117	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1037 - EPA 5030 (soil)

Matrix Spike Dup (B3C1037-MSD1)	Source: Y303265-01			Prepared: 03/10/2023 Analyzed: 03/10/2023						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	4.06	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.000520	105	70-130	3.36	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.59	20	
Ethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	1.84	20	
Naphthalene	0.111	0.00380	"	0.100	0.000540	111	70-130	5.12	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	3.54	20	
o-Xylene	0.0903	0.00200	"	0.100	ND	90.3	70-130	1.54	20	
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.2	70-130	2.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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 B3C1039 - EPA 5030 (soil)**

**Blank (B3C1039-BLK1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

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	105		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	108		70-130			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1039 - EPA 5030 (soil)

**LCS (B3C1039-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100		97.1	70-130			
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100		99.9	70-130			
Benzene	0.0865	0.00200	"	0.100		86.5	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0817	0.00200	"	0.100		81.7	70-130			
o-Xylene	0.0840	0.00200	"	0.100		84.0	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1039 - EPA 5030 (soil)

Matrix Spike (B3C1039-MS1)	Source: Y303268-18			Prepared: 03/10/2023 Analyzed: 03/10/2023						
1,2,4-Trimethylbenzene	4.30	0.00200	mg/kg	0.100	39.6	NR	70-130			QM-07
1,3,5-Trimethylbenzene	2.43	0.00200	"	0.100	8.97	NR	70-130			QM-07
Benzene	1.40	0.00200	"	0.100	0.750	652	70-130			QM-07
Ethylbenzene	3.00	0.00200	"	0.100	6.83	NR	70-130			QM-07
Naphthalene	0.162	0.00380	"	0.100	0.0584	104	70-130			
Toluene	0.139	0.00200	"	0.100	0.0400	98.7	70-130			
o-Xylene	ND	0.00200	"	0.100	0.597	NR	70-130			QM-07, U
m,p-Xylene	6.40	0.00400	"	0.200	70.7	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.28		"	0.125		222	70-130			M 7
Surrogate: Toluene-d8	2.8		"	0.125		N	70-130			M 7
Surrogate: 4-Bromofluorobenzene	0.80		"	0.125		639	70-130			M 7

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1039 - EPA 5030 (soil)

Matrix Spike Dup (B3C1039-MSD1)	Source: Y303268-18			Prepared: 03/10/2023 Analyzed: 03/10/2023						
1,2,4-Trimethylbenzene	2.62	0.00200	mg/kg	0.100	39.6	NR	70-130	48.8	20	QM-07
1,3,5-Trimethylbenzene	1.68	0.00200	"	0.100	8.97	NR	70-130	36.5	20	QM-07
Benzene	0.832	0.00200	"	0.100	0.750	82.4	70-130	51.0	20	QR-02
Ethylbenzene	2.07	0.00200	"	0.100	6.83	NR	70-130	36.9	20	QM-07
Naphthalene	0.0784	0.00380	"	0.100	0.0584	20.0	70-130	69.6	20	QM-07
Toluene	0.0949	0.00200	"	0.100	0.0400	54.9	70-130	37.5	20	QM-07
o-Xylene	ND	0.00200	"	0.100	0.597	NR	70-130		20	QM-07, U
m,p-Xylene	2.58	0.00400	"	0.200	70.7	NR	70-130	85.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.32		"	0.125		254	70-130			M 7
Surrogate: Toluene-d8	1.7		"	0.125		N	70-130			M 7
Surrogate: 4-Bromofluorobenzene	0.67		"	0.125		538	70-130			M 7

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C1030 - EPA 3050B**

**Blank (B3C1030-BLK1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							

**LCS (B3C1030-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	0.0542	0.000100	mg/kg	0.0500		108	80-120			
Barium	5.38	0.0100	"	5.00		108	80-120			
Cadmium	0.0507	0.000100	"	0.0500		101	80-120			
Copper	0.523	0.0100	"	0.500		105	80-120			
Nickel	0.0584	0.0100	"	0.0500		117	80-120			
Selenium	0.0524	0.000100	"	0.0500		105	80-120			

**Matrix Spike (B3C1030-MS1)**

Source: Y303268-01

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	8.28	0.0895	mg/kg	4.47	4.22	90.8	75-125			
Barium	708	8.95	"	447	201	113	75-125			
Cadmium	4.61	0.0895	"	4.47	0.164	99.4	75-125			
Copper	45.7	8.95	"	44.7	10.4	78.8	75-125			
Nickel	16.9	8.95	"	4.47	12.6	96.8	75-125			
Selenium	4.11	0.0895	"	4.47	0.178	88.0	75-125			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C1030 - EPA 3050B**

**Matrix Spike Dup (B3C1030-MSD1)**

**Source: Y303268-01**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	8.01	0.0949	mg/kg	4.75	4.22	79.9	75-125	3.32	20	
Barium	710	9.49	"	475	201	107	75-125	0.266	20	
Cadmium	4.71	0.0949	"	4.75	0.164	95.7	75-125	2.04	20	
Copper	46.6	9.49	"	47.5	10.4	76.2	75-125	2.02	20	
Nickel	16.8	9.49	"	4.75	12.6	89.6	75-125	0.454	20	
Selenium	4.27	0.0949	"	4.75	0.178	86.3	75-125	3.82	20	

**Batch B3C1031 - EPA 3050B**

**Blank (B3C1031-BLK1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Copper	ND	0.0100	"							
Selenium	ND	0.000100	"							

**LCS (B3C1031-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	0.0536	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.39	0.0100	"	5.00		108	80-120			
Copper	0.539	0.0100	"	0.500		108	80-120			
Selenium	0.0508	0.000100	"	0.0500		102	80-120			

**Matrix Spike (B3C1031-MS1)**

**Source: Y303268-11**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	7.78	0.0927	mg/kg	4.63	4.09	79.6	75-125			
Barium	733	9.27	"	463	221	111	75-125			
Copper	46.7	9.27	"	46.3	11.1	76.7	75-125			
Selenium	4.51	0.0927	"	4.63	0.234	92.3	75-125			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3C1031 - EPA 3050B**

**Matrix Spike Dup (B3C1031-MSD1)**

Source: Y303268-11

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	7.49	0.0962	mg/kg	4.81	4.09	70.7	75-125	3.81	20	QM-07
Barium	696	9.62	"	481	221	98.9	75-125	5.18	20	
Copper	46.0	9.62	"	48.1	11.1	72.6	75-125	1.43	20	QM-07
Selenium	4.21	0.0962	"	4.81	0.234	82.7	75-125	6.93	20	

**Batch B3C1032 - EPA 3050B**

**Blank (B3C1032-BLK1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Selenium	ND	0.000100	"							

**LCS (B3C1032-BS1)**

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	0.0549	0.000100	mg/kg	0.0500		110	80-120			
Barium	5.41	0.0100	"	5.00		108	80-120			
Selenium	0.0553	0.000100	"	0.0500		111	80-120			

**Matrix Spike (B3C1032-MS1)**

Source: Y303268-21

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	9.74	0.0955	mg/kg	4.77	3.86	123	75-125			
Barium	733	9.55	"	477	194	113	75-125			
Selenium	4.83	0.0955	"	4.77	0.262	95.7	75-125			

**Matrix Spike Dup (B3C1032-MSD1)**

Source: Y303268-21

Prepared: 03/10/2023 Analyzed: 03/10/2023

Arsenic	7.65	0.0987	mg/kg	4.93	3.86	76.8	75-125	24.1	20	QR-02
Barium	718	9.87	"	493	194	106	75-125	2.06	20	
Selenium	4.61	0.0987	"	4.93	0.262	88.1	75-125	4.68	20	

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**Metals by SM 3500 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D0429 - EPA 3050B</b>										
<b>Blank (B3D0429-BLK1)</b>					Prepared: 04/04/2023 Analyzed: 04/06/2023					
Nickel	ND	0.0100	mg/kg							
<b>LCS (B3D0429-BS1)</b>					Prepared: 04/04/2023 Analyzed: 04/06/2023					
Nickel	0.0533	0.0100	mg/kg	0.0500		107	80-120			
<b>Matrix Spike (B3D0429-MS1)</b>					Source: Y303268-11 Prepared: 04/04/2023 Analyzed: 04/06/2023					
Nickel	19.1	8.82	mg/kg	4.41	15.4	82.5	75-125			
<b>Matrix Spike Dup (B3D0429-MSD1)</b>					Source: Y303268-11 Prepared: 04/04/2023 Analyzed: 04/07/2023					
Nickel	20.6	9.27	mg/kg	4.63	15.4	113	75-125	7.96	20	

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1302 - Saturated Paste Metals**

**Blank (B3C1302-BLK1)**

Prepared: 03/13/2023 Analyzed: 03/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C1302-DUP1)**

Source: Y303233-05

Prepared: 03/13/2023 Analyzed: 03/14/2023

Calcium PPM	12.5	10.0	mg/L		10.3			19.1	50	
SAR	0.00		SAR		0.198			200	200	
Magnesium PPM	4.23	10.0	mg/L		3.38			22.6	50	
Sodium PPM	3.12	10.0	"		2.86			8.86	50	

**Batch B3C1303 - Saturated Paste Metals**

**Blank (B3C1303-BLK1)**

Prepared: 03/13/2023 Analyzed: 03/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C1303-DUP1)**

Source: Y303268-17

Prepared: 03/13/2023 Analyzed: 03/14/2023

Calcium PPM	8.89	10.0	mg/L		9.96			11.3	50	
SAR	0.00		SAR		11.1			200	200	
Magnesium PPM	52.0	10.0	mg/L		50.9			2.28	50	
Sodium PPM	418	10.0	"		389			7.29	50	

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**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 B3C1311 - Saturated Paste pH/EC**

**Blank (B3C1311-BLK1)**

Prepared: 03/13/2023 Analyzed: 03/14/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3C1311-DUP1)**

**Source: Y303233-05**

Prepared: 03/13/2023 Analyzed: 03/14/2023

Specific Conductance (EC)	0.00170	0.00500	mmhos/cm	0.00230	30.0	25	QR-DUP
pH	7.03		pH Units	6.80	3.33	25	

**Batch B3C1312 - Saturated Paste pH/EC**

**Blank (B3C1312-BLK1)**

Prepared: 03/13/2023 Analyzed: 03/14/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3C1312-DUP1)**

**Source: Y303268-17**

Prepared: 03/13/2023 Analyzed: 03/14/2023

pH	8.51		pH Units	8.57	0.703	25	
Specific Conductance (EC)	1.93	0.00500	mmhos/cm	1.67	14.8	25	

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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L670008 - 3550B**

<b>MSD (L 98456-MSD-L670008)</b>		<b>Source: Y303268-06</b>			<b>Prepared: 03/15/2023 Analyzed: 03/15/2023</b>					
1-Methylnaphthalene	0.758	0.0101	mg/Kg	0.166	0.383	226	30-130	31.9	30	*
Indeno(1,2,3-cd)pyrene	0.0962	0.00335	"	0.166	<0.00314	57.9	30-130	0.2	30	
Benzo(a)anthracene	0.125	0.00335	"	0.166	0.00374	73	30-130	4.9	30	
Benzo(a)pyrene	0.123	0.00335	"	0.166	0.00365	71.8	30-130	11.1	30	
Benzo(b)fluoranthene	0.1	0.00335	"	0.166	0.00315	58.3	30-130	12.2	30	
Benzo(k)fluoranthene	0.119	0.00335	"	0.166	0.00235	70.2	30-130	0.8	30	
Chrysene	0.133	0.00335	"	0.166	0.00653	76.1	30-130	10.2	30	
Dibenz(a,h)anthracene	0.108	0.00335	"	0.166	<0.00307	65	30-130	2.8	30	
Fluorene	0.214	0.00335	"	0.166	0.0567	94.7	30-130	13.4	30	
2-Methylnaphthalene	1.38	0.0101	"	0.166	0.753	378	30-130	33.3	30	*
Naphthalene	0.518	0.0101	"	0.166	0.229	174	30-130	35.1	30	*
Pyrene	0.188	0.00335	"	0.166	0.0348	92.2	30-130	13	30	
Acenaphthene	0.164	0.00335	"	0.166	0.0339	78.3	30-130	8.9	30	
Anthracene	0.123	0.00335	"	0.166	0.00396	71.7	30-130	7.5	30	
Fluoranthene	0.168	0.00335	"	0.166	0.024	86.7	30-130	26.2	30	
Surrogate: 4-Terphenyl-d14	78.6		"	0.332	6	78.6	33-122			
Surrogate: Nitrobenzene-d5	55.7		"	0.332	17	55.7	29-110			
Surrogate: 2-Fluorobiphenyl	62.3		"	0.332		62.3	33-115			

<b>MS (L 98456-MS-L670008)</b>		<b>Source: Y303268-06</b>			<b>Prepared: 03/15/2023 Analyzed: 03/15/2023</b>					
Naphthalene	0.363	0.0101	mg/Kg	0.164	0.229	81.7	30-130			
2-Methylnaphthalene	0.986	0.0101	"	0.164	0.753	142	30-130			*
Acenaphthene	0.15	0.00335	"	0.164	0.0339	70.7	30-130			
1-Methylnaphthalene	0.549	0.0101	"	0.164	0.383	101	30-130			
Pyrene	0.165	0.00335	"	0.164	0.0348	79.3	30-130			
Benzo(a)anthracene	0.119	0.00335	"	0.164	0.00374	70.2	30-130			
Benzo(a)pyrene	0.11	0.00335	"	0.164	0.00365	64.8	30-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L670008 - 3550B**

MS (L 98456-MS-L670008)	Source: Y303268-06			Prepared: 03/15/2023 Analyzed: 03/15/2023						
Indeno(1,2,3-cd)pyrene	0.0964	0.00335	mg/Kg	0.164	<0.00314	58.7	30-130			
Anthracene	0.114	0.00335	"	0.164	0.00396	67	30-130			
Benzo(b)fluoranthene	0.0885	0.00335	"	0.164	0.00315	52	30-130			
Fluorene	0.187	0.00335	"	0.164	0.0567	79.4	30-130			
Fluoranthene	0.129	0.00335	"	0.164	0.024	64	30-130			
Dibenz(a,h)anthracene	0.105	0.00335	"	0.164	<0.00307	64	30-130			
Chrysene	0.12	0.00335	"	0.164	0.00653	69.1	30-130			
Benzo(k)fluoranthene	0.12	0.00335	"	0.164	0.00235	71.7	30-130			
Surrogate: 4-Terphenyl-d14	77.5		"	0.329	6	77.5	33-122			
Surrogate: 2-Fluorobiphenyl	64.4		"	0.329		64.4	33-115			
Surrogate: Nitrobenzene-d5	53.1		"	0.329	17	53.1	29-110			

LCS (LCS-L670008)	Prepared: 03/15/2023 Analyzed: 03/15/2023									
Chrysene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Naphthalene	0.102	0.00201	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.167		64.6	30-130			
Fluorene	0.118	0.00067	"	0.167		70.6	30-130			
Fluoranthene	0.116	0.00067	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Pyrene	0.118	0.00067	"	0.167		70.6	30-130			
2-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167		67	30-130			
Benzo(k)fluoranthene	0.103	0.00067	"	0.167		61.6	30-130			
Anthracene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.167		73	30-130			
Benzo(b)fluoranthene	0.0912	0.00067	"	0.167		54.6	30-130			

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 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L670008 - 3550B**

**LCS (LCS-L670008)**

Prepared: 03/15/2023 Analyzed: 03/15/2023

1-Methylnaphthalene	0.104	0.00201	mg/Kg	0.167		62.2	30-130			
Surrogate: Nitrobenzene-d5	60		"	0.333		60	29-110			
Surrogate: 2-Fluorobiphenyl	62.4		"	0.333		62.4	33-115			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			

**LRB (LRB-L670008)**

Prepared: 03/15/2023 Analyzed: 03/15/2023

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333		58.5	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669818 - 3550B**

<b>MSD (L 98432-MSD-L669818)</b>	<b>Source: 98432</b>			<b>Prepared: 03/15/2023 Analyzed: 03/15/2023</b>						
Benzo(k)fluoranthene	0.0947	0.00067	mg/Kg	0.164	<0.000437	57.7	30-130	1.3	30	
Dibenz(a,h)anthracene	0.157	0.00067	"	0.164	<0.000614	95.7	30-130	7.9	30	
Fluoranthene	0.104	0.00067	"	0.164	<0.000394	63.4	30-130	5.6	30	
Fluorene	0.112	0.00067	"	0.164	0.00133	67.4	30-130	9.3	30	
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.164	<0.000627	68.9	30-130	4.5	30	
Benzo(a)pyrene	0.115	0.00067	"	0.164	<0.000468	70.1	30-130	3.5	30	
Benzo(b)fluoranthene	0.0814	0.00067	"	0.164	<0.000585	49.6	30-130	1.2	30	
Pyrene	0.0993	0.00067	"	0.164	<0.000643	60.5	30-130	6.6	30	
Naphthalene	0.1	0.00201	"	0.164	<0.00145	60.9	30-130	7.2	30	
Anthracene	0.118	0.00067	"	0.164	<0.000334	71.9	30-130	13.5	30	
Acenaphthene	0.109	0.00067	"	0.164	0.000433	66.1	30-130	7.6	30	
2-Methylnaphthalene	0.106	0.00201	"	0.164	<0.00194	64.6	30-130	6.5	30	
1-Methylnaphthalene	0.106	0.00201	"	0.164	<0.00109	64.6	30-130	5.8	30	
Chrysene	0.111	0.00067	"	0.164	0.00137	66.8	30-130	2.7	30	
Benzo(a)anthracene	0.113	0.00067	"	0.164	0.000759	68.4	30-130	8.2	30	
<i>Surrogate: Nitrobenzene-d5</i>	57.1		"	0.329	17	57.1	29-110			
<i>Surrogate: 4-Terphenyl-d14</i>	52.2		"	0.329	17	52.2	33-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	58.3		"	0.329	179	58.3	33-115			

<b>MS (L 98432-MS-L669818)</b>	<b>Source: 98432</b>			<b>Prepared: 03/15/2023 Analyzed: 03/15/2023</b>						
Fluorene	0.102	0.00067	mg/Kg	0.164	0.00133	61.3	30-130			
Benzo(a)pyrene	0.111	0.00067	"	0.164	<0.000468	67.6	30-130			
Benzo(b)fluoranthene	0.0804	0.00067	"	0.164	<0.000585	49	30-130			
Benzo(k)fluoranthene	0.096	0.00067	"	0.164	<0.000437	58.5	30-130			
Chrysene	0.108	0.00067	"	0.164	0.00137	65	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.164	0.000759	62.9	30-130			
Fluoranthene	0.0983	0.00067	"	0.164	<0.000394	59.9	30-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669818 - 3550B**

MS (L 98432-MS-L669818)	Source: 98432		Prepared: 03/15/2023 Analyzed: 03/15/2023							
1-Methylnaphthalene	0.1	0.00201	mg/Kg	0.164	<0.00109	60.9	30-130			
Dibenz(a,h)anthracene	0.145	0.00067	"	0.164	<0.000614	88.4	30-130			
Anthracene	0.103	0.00067	"	0.164	<0.000334	62.8	30-130			
Acenaphthene	0.101	0.00067	"	0.164	0.000433	61.3	30-130			
Pyrene	0.0929	0.00067	"	0.164	<0.000643	56.6	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.164	<0.000627	65.8	30-130			
Naphthalene	0.093	0.00201	"	0.164	<0.00145	56.7	30-130			
2-Methylnaphthalene	0.0993	0.00201	"	0.164	<0.00194	60.5	30-130			
Surrogate: 4-Terphenyl-d14	48.4		"	0.328	17	48.4	33-122			
Surrogate: 2-Fluorobiphenyl	55.1		"	0.328	179	55.1	33-115			
Surrogate: Nitrobenzene-d5	53		"	0.328	17	53	29-110			

LCS (LCS-L669818)	Prepared: 03/15/2023 Analyzed: 03/15/2023									
Indeno(1,2,3-cd)pyrene	0.103	0.00067	mg/Kg	0.167		61.6	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Naphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Fluorene	0.127	0.00067	"	0.167		76	30-130			
Fluoranthene	0.114	0.00067	"	0.167		68.2	30-130			
Dibenz(a,h)anthracene	0.156	0.00067	"	0.167		93.4	30-130			
Chrysene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(a)pyrene	0.132	0.00067	"	0.167		79	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Anthracene	0.135	0.00067	"	0.167		80.8	30-130			
Acenaphthene	0.115	0.00067	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.167		67	30-130			
1-Methylnaphthalene	0.112	0.00201	"	0.167		67	30-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2 OSA

**PAH by 8270D SIM - 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 L669818 - 3550B**

**LCS (LCS-L669818)**

Prepared: 03/15/2023 Analyzed: 03/15/2023

Benzo(b)fluoranthene	0.078	0.00067	mg/Kg	0.167		46.7	30-130			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	67.8		"	0.333		67.8	33-122			
Surrogate: 2-Fluorobiphenyl	67.2		"	0.333		67.2	33-115			

**LRB (LRB-L669818)**

Prepared: 03/15/2023 Analyzed: 03/15/2023

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	62.4		"	0.333		62.4	29-110			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.333		60.9	33-115			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333		64.8	33-122			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2 OSA

**Notes and Definitions**

- U Sample is Non-Detect.
  
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
  
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
  
- 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.
  
- 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.

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

Origins Laboratory, Inc.



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January 16, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Ditlev-Simonsen GU 2

Project Number - [none]

Attached are your analytical results for KMG - Ditlev-Simonsen GU 2 received by Origins Laboratory, Inc. January 06, 2023. This project is associated with Origins project number Y301091-01.

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

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

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

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

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

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Ditlev-Simonsen GU 2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-BG01@3'	Y301091-01	Soil	January 6, 2023 15:40	01/06/2023 17:19
WH-BG01@6'	Y301091-02	Soil	January 6, 2023 15:42	01/06/2023 17:19

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

Initial 4301091 page 1 of 1

Client: Eagle Environmental (ENV) Project Manager: D. Coloccia  
 Address: 8000 W 44th Ave Project Name: Ditlev-Simonsen GU 2  
Wheat Ridge, CO 80033 Project Number:           
 Telephone Number: 303-433-0419 Samples Collected By: CS  
 Email Address: dcoloccia@eagle-enviro.com

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	U	W	Z		Other
W14-060103	5/6/23	1540	2	X				X				X	X	X	1	Mutals added to
W14-060106	↓	1542	2	X				X				X	X	X	2	both samples per
															3	the phone call from
															4	Alexandria on 1/1/2
															5	
															6	
															7	
															8	
															9	
															10	
Relinquished By: <u>Chris Baska</u>	Date: <u>11/6/23</u>	Time: <u>1719</u>	Time: <u>1719</u>	Received By: <u>ETH</u>	Date: <u>11/6/23</u>	Time: <u>1719</u>	Received By: <u>ETH</u>	Date: <u>11/6/23</u>	Time: <u>1719</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard						

Temp Received: 6.5 Date Results Needed

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

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

**Sample Receipt Checklist**

Origins Work Order: 4301091 Client: Eagle  
 Client Project ID: Ditlev-Simonsen GU 2

Checklist Completed by: EH Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 1/6/23 Airbill #: NA

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

Cooler Number/Temperature: 1 16.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °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) 1/6/23  
Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

**WH-BG01@3'**

**1/6/2023 3:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301091-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.700		0.100	mg/L	1	B3A0707	01/07/2023	01/10/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	20.8		0.499	meq/L	10	[CALC]	01/07/2023	01/10/2023	
Magnesium	28.5		0.823	"	"	"	"	"	
Sodium	31.1		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.93			pH Units	1	B3A0710	01/07/2023	01/10/2023	
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**SAR by 20B Saturated Paste**

SAR	6.26			SAR	1	B3A0704	01/07/2023	01/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.93		0.00500	mmhos/cm	1	B3A0710	01/07/2023	01/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	6.17		0.0941	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Barium	174		9.41	"	"	"	"	"	
Cadmium	0.266		0.0941	"	"	"	"	"	
Copper	17.7		9.41	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

**WH-BG01@3'**

**1/6/2023 3:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301091-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	14.9		9.41	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Nickel	18.3		9.41	"	"	"	"	"	
Selenium	0.177		0.0941	"	"	"	"	"	
Silver	ND		0.0941	"	"	"	"	"	
Zinc	ND		94.1	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L658170	01/06/2023	01/12/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

**WH-BG01@6'**

**1/6/2023 3:42:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301091-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.43		0.0990	mg/L	1	B3A0707	01/07/2023	01/10/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	6.68		0.499	meq/L	10	[CALC]	01/07/2023	01/10/2023	
Magnesium	7.89		0.823	"	"	"	"	"	
Sodium	19.7		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.05			pH Units	1	B3A0710	01/07/2023	01/10/2023	
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**SAR by 20B Saturated Paste**

SAR	7.29			SAR	1	B3A0704	01/07/2023	01/10/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.85		0.00500	mmhos/cm	1	B3A0710	01/07/2023	01/10/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.54		0.0942	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Barium	143		9.42	"	"	"	"	"	
Cadmium	0.186		0.0942	"	"	"	"	"	
Copper	12.7		9.42	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

**WH-BG01@6'**

**1/6/2023 3:42:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y301091-02 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	10.4		9.42	mg/kg	10	B3A0909	01/09/2023	01/09/2023	
Nickel	14.9		9.42	"	"	"	"	"	
Selenium	0.342		0.0942	"	"	"	"	"	
Silver	ND		0.0942	"	"	"	"	"	
Zinc	ND		94.2	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L658170	01/06/2023	01/12/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0909 - EPA 3050B**

**Blank (B3A0909-BLK1)**

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3A0909-BS1)**

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	0.0538	0.000100	mg/kg	0.0500		108	80-120			
Barium	5.05	0.0100	"	5.00		101	80-120			
Cadmium	0.0514	0.000100	"	0.0500		103	80-120			
Copper	0.573	0.0100	"	0.500		115	80-120			
Lead	0.0512	0.0100	"	0.0500		102	80-120			
Nickel	0.0548	0.0100	"	0.0500		110	80-120			
Selenium	0.0487	0.000100	"	0.0500		97.4	80-120			
Silver	0.0511	0.000100	"	0.0500		102	80-120			
Zinc	0.549	0.100	"	0.500		110	80-120			

**Matrix Spike (B3A0909-MS1)**

Source: Y301082-02

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	6.30	0.0902	mg/kg	4.51	1.77	100	75-125			
Barium	496	9.02	"	451	47.1	99.5	75-125			
Cadmium	4.72	0.0902	"	4.51	0.0674	103	75-125			
Copper	57.4	9.02	"	45.1	7.21	111	75-125			
Lead	19.2	9.02	"	4.51	16.8	52.1	75-125			QM-07

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Jen Pellegrini, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3A0909 - EPA 3050B**

<b>Matrix Spike (B3A0909-MS1)</b>		<b>Source: Y301082-02</b>			Prepared: 01/09/2023 Analyzed: 01/09/2023					
Nickel	12.1	9.02	mg/kg	4.51	7.25	107	75-125			
Selenium	4.55	0.0902	"	4.51	ND	101	75-125			
Silver	4.60	0.0902	"	4.51	0.0328	101	75-125			
Zinc	71.4	90.2	"	45.1	24.8	103	75-125			
<b>Matrix Spike Dup (B3A0909-MSD1)</b>		<b>Source: Y301082-02</b>			Prepared: 01/09/2023 Analyzed: 01/09/2023					
Arsenic	6.87	0.0931	mg/kg	4.66	1.77	110	75-125	8.66	20	
Barium	517	9.31	"	466	47.1	101	75-125	4.07	20	
Cadmium	4.82	0.0931	"	4.66	0.0674	102	75-125	2.11	20	
Copper	57.9	9.31	"	46.6	7.21	109	75-125	0.765	20	
Lead	32.4	9.31	"	4.66	16.8	335	75-125	51.3	20	QM-07, QR-DUP
Nickel	12.1	9.31	"	4.66	7.25	103	75-125	0.164	20	
Selenium	4.64	0.0931	"	4.66	ND	99.6	75-125	1.87	20	
Silver	4.64	0.0931	"	4.66	0.0328	99.0	75-125	0.985	20	
Zinc	72.1	93.1	"	46.6	24.8	102	75-125	0.915	20	

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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 B3A0704 - Saturated Paste Metals**

**Blank (B3A0704-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3A0704-DUP1)**

Source: Y301080-01

Prepared: 01/07/2023 Analyzed: 01/10/2023

Calcium PPM	49.9	10.0	mg/L		50.8			1.74	50	
SAR	0.00		SAR		0.137			200	200	
Magnesium PPM	4.48	10.0	mg/L		4.54			1.15	50	
Sodium PPM	4.48	10.0	"		3.80			16.5	50	

**Batch B3A0707 - DTPA Sorbitol Preparation**

**Blank (B3A0707-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3A0707-DUP1)**

Source: Y301080-01

Prepared: 01/07/2023 Analyzed: 01/10/2023

Boron	ND	0.0998	mg/L		ND				50	
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 Project Number: [none]  
 Project: KMG - Ditlev-Simonsen GU 2

**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 B3A0710 - Saturated Paste pH/EC**

**Blank (B3A0710-BLK1)**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3A0710-DUP1)**

**Source: Y301080-01**

Prepared: 01/07/2023 Analyzed: 01/10/2023

Specific Conductance (EC)	0.364	0.00500	mmhos/cm	0.360	1.11	25
pH	7.80		pH Units	8.15	4.39	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 L658170 -</b>										
<b>DUP (L 91807-DUP)</b>		<b>Source: 91807</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 91807-MS)</b>		<b>Source: 91807</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	39.3	2.57	mg/Kg	41.1	< 0.244	96	75-125			
<b>MSD (L 91807-MSD)</b>		<b>Source: 91807</b>			Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	512	50	mg/Kg	570	<24.4	90	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	6.78	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project: KMG - Ditlev-Simonsen GU 2

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**Notes and Definitions**

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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