

June 20, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - **KMG - McKinstry 28N 21N 7C 2N OSA** Project Number - **[none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. June 07, 2023. This project is associated with Origins project number Y306175-01.

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

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

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

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

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

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



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-BG01@3"	Y306175-01	Soil	June 7, 2023 12:45	06/07/2023 17:30
SEP-BG02@3"	Y306175-02	Soil	June 7, 2023 12:49	06/07/2023 17:30
SEP-BG03@3"	Y306175-03	Soil	June 7, 2023 12:51	06/07/2023 17:30
SEP-BG04@3"	Y306175-04	Soil	June 7, 2023 12:53	06/07/2023 17:30
Initial Waste Characterization@3"	Y306175-05	Soil	June 7, 2023 12:43	06/07/2023 17:30

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 - McKinstry 28N 21N 7C 2N OSA

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

ORIGINS
LABORATORY, INC

4,306,175
Impacted

www.originslaboratory.com


page 1 of 1

Client: Eagle Environmental (ovr)
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0419
 Email Address: dcoloccia@eagle-enviro.com
 Project Manager: D. Coloccia
 Project Name: McKinstry 28N 21N 7C 2N OSA
 Project Number: _____
 Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis					Sample Instructions			
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	PH/EC	SAR	Boron		Metals		
SEP-060103"	6/7/23	1245	3	X				X				X					
SEP-060203"		1249										X					
SEP-060303"		1251										X					
SEP-060403"		1253										X					
Initial Waste		1243												X			
Characterization 03"																	

Temp Received: 15 Date Results Needed

Relinquished By: Chris Tavelio
 Date: 6/7/23
 Time: 1730
 Received By: [Signature]
 Date: 6/7/23
 Time: 1730
 Turnaround Time:
 48 Hr
 Same Day
 24 Hr
 72 Hr
 Standard

Origins Laboratory, Inc.


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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4200175

Client: Eagle Environmental

Client Project ID: McKinstry 28N 21N 7C

Checklist Completed by: EHS

Shipped Via: Hand Delivered 2N OSA

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

Date/time completed: 6/7/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 15 °c 1 °c 1 °c (Describe) 1 °c

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]
 Reviewed by (Project Manager)

6/7/23
 Date/Time Reviewed

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 - McKinstry 28N 21N 7C 2N OSA

SEP-BG01@3"
 6/7/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306175-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.660		0.0982	mg/L	1	B3F0815	06/08/2023	06/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.14		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	1.32		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	0.297			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.344		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.41		0.0876	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Barium	171		8.76	"	"	"	"	"	
Cadmium	0.202		0.0876	"	"	"	"	"	
Copper	11.6		8.76	"	"	"	"	"	

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SEP-BG01@3"
6/7/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-01 (Soil)

Table 915 metals by EPA 6020B

Lead	10.6		8.76	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Nickel	13.0		8.76	"	"	"	"	"	
Selenium	0.241		0.0876	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	ND		87.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687804	06/07/2023	06/15/2023	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG02@3"
6/7/2023 12:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.702		0.102	mg/L	1	B3F0815	06/08/2023	06/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.03		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	0.194			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.344		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.30		0.0944	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Barium	157		9.44	"	"	"	"	"	
Cadmium	0.238		0.0944	"	"	"	"	"	
Copper	13.8		9.44	"	"	"	"	"	

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG02@3"
6/7/2023 12:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-02 (Soil)

Table 915 metals by EPA 6020B

Lead	12.5		9.44	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Nickel	13.6		9.44	"	"	"	"	"	
Selenium	0.285		0.0944	"	"	"	"	"	
Silver	ND		0.0944	"	"	"	"	"	
Zinc	ND		94.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687804	06/07/2023	06/15/2023	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG03@3"
6/7/2023 12:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.301		0.0987	mg/L	1	B3F0815	06/08/2023	06/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.09		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	0.935		0.823	"	"	"	"	"	
Sodium	1.97		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	1.60			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.515		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.68		0.0868	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Barium	113		8.68	"	"	"	"	"	
Cadmium	0.147		0.0868	"	"	"	"	"	
Copper	8.96		8.68	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG03@3"
6/7/2023 12:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-03 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.68	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Nickel	10.6		8.68	"	"	"	"	"	
Selenium	0.212		0.0868	"	"	"	"	"	
Silver	ND		0.0868	"	"	"	"	"	
Zinc	ND		86.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687804	06/07/2023	06/15/2023	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG04@3"
6/7/2023 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.380		0.101	mg/L	1	B3F0815	06/08/2023	06/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.47		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.492		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	0.486			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.262		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.13		0.0886	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Barium	84.7		8.86	"	"	"	"	"	
Cadmium	0.0921		0.0886	"	"	"	"	"	
Copper	ND		8.86	"	"	"	"	"	

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 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-BG04@3"
6/7/2023 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.86	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Nickel	ND		8.86	"	"	"	"	"	
Selenium	0.115		0.0886	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	ND		88.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687804	06/07/2023	06/15/2023	
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Initial Waste Characterization@3
6/7/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-05 (Soil)

Boron (DTPA Sorbitol)

Boron	3.44		0.0994	mg/L	1	B3F0815	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	494		25.0	mg/kg	1	B3F0728	06/07/2023	06/07/2023	
Residual Range Organics (C28-C40)	181		100	"	"	"	"	"	

Surrogate: o-Terphenyl	84.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.205		0.00200	mg/kg	1	B3F0730	06/07/2023	06/08/2023	
1,3,5-Trimethylbenzene	0.156		0.00200	"	"	"	"	"	
Benzene	0.192		0.00200	"	"	"	"	"	
Ethylbenzene	0.116		0.00200	"	"	"	"	"	
Toluene	2.74		0.0500	"	25	"	"	06/08/2023	
Xylenes, total	0.681		0.00200	"	1	"	"	06/08/2023	
Gasoline Range Hydrocarbons	287		5.00	"	25	"	"	06/08/2023	

Surrogate: 1,2-Dichloroethane-d4	99.0 %		70-130			"	"	06/08/2023	
Surrogate: Toluene-d8	150 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Initial Waste Characterization@3
6/7/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.48		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	84.0		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.436	0.00109	0.00201	mg/Kg	1	L688138	06/16/2023	06/17/2023	
2-Methylnaphthalene	0.219	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0553	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00947	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0197	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	0.0317	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00138	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000954	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.122	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00109	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.0191	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0147	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59 %		33-122			"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Final Waste Characterization@3
6/7/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306175-05 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	56.3 %		29-110			L6881 38	06/16/2023	06/17/2023	
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pH in Soil by 9045D

pH	8.06			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	58.8			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.96		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.07		0.0982	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
Barium	65.8		9.82	"	"	"	"	"	
Cadmium	ND		0.0982	"	"	"	"	"	
Copper	ND		9.82	"	"	"	"	"	
Lead	ND		9.82	"	"	"	"	"	
Nickel	ND		9.82	"	"	"	"	"	
Selenium	0.153		0.0982	"	"	"	"	"	
Silver	ND		0.0982	"	"	"	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

Initial Waste Characterization@3
6/7/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306175-05 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND		98.2	mg/kg	10	B3F0732	06/07/2023	06/08/2023	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687804	06/07/2023	06/15/2023	
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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3F0728 - EPA 3550B										
Blank (B3F0728-BLK1)										
					Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0728 - EPA 3550B

LCS (B3F0728-BS1)

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

Diesel (C10-C28)	941	50.0	mg/kg	1000		94.1	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0728 - EPA 3550B

Matrix Spike (B3F0728-MS1)	Source: Y306151-02			Prepared: 06/07/2023 Analyzed: 06/07/2023						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	50.2	96.5	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.2	50-150			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3F0728 - EPA 3550B										
Matrix Spike Dup (B3F0728-MSD1)		Source: Y306151-02			Prepared: 06/07/2023 Analyzed: 06/07/2023					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	50.2	96.1	70-130	0.344	35	
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130	3.28	35	
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0730 - EPA 5030 (soil)

Blank (B3F0730-BLK1)

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

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	94.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0730 - EPA 5030 (soil)

LCS (B3F0730-BS1)

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

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0895	0.00200	"	0.100		89.5	70-130			
Ethylbenzene	0.0996	0.00200	"	0.100		99.6	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 - McKinstry 28N 21N 7C 2N 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 B3F0730 - EPA 5030 (soil)

Matrix Spike (B3F0730-MS1)	Source: Y306151-01			Prepared: 06/07/2023 Analyzed: 06/07/2023						
1,2,4-Trimethylbenzene	0.0847	0.00200	mg/kg	0.100	ND	84.7	70-130			
1,3,5-Trimethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Benzene	0.0762	0.00200	"	0.100	ND	76.2	70-130			
Ethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
o-Xylene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0730 - EPA 5030 (soil)

Matrix Spike Dup (B3F0730-MSD1)	Source: Y306151-01		Prepared: 06/07/2023 Analyzed: 06/07/2023							
1,2,4-Trimethylbenzene	0.0882	0.00200	mg/kg	0.100	ND	88.2	70-130	4.05	20	
1,3,5-Trimethylbenzene	0.0899	0.00200	"	0.100	ND	89.9	70-130	2.66	20	
Benzene	0.0751	0.00200	"	0.100	ND	75.1	70-130	1.51	20	
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	2.43	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	4.90	20	
Toluene	0.0847	0.00200	"	0.100	ND	84.7	70-130	1.29	20	
o-Xylene	0.0879	0.00200	"	0.100	ND	87.9	70-130	1.21	20	
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.2	70-130	1.82	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0732 - EPA 3050B

Blank (B3F0732-BLK1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

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 (B3F0732-BS1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

Arsenic	0.0483	0.000100	mg/kg	0.0500		96.7	80-120			
Barium	5.09	0.0100	"	5.00		102	80-120			
Cadmium	0.0520	0.000100	"	0.0500		104	80-120			
Copper	0.536	0.0100	"	0.500		107	80-120			
Lead	0.0524	0.0100	"	0.0500		105	80-120			
Nickel	0.0512	0.0100	"	0.0500		102	80-120			
Selenium	0.0485	0.000100	"	0.0500		97.0	80-120			
Silver	0.0504	0.000100	"	0.0500		101	80-120			
Zinc	0.495	0.100	"	0.500		99.1	80-120			

Matrix Spike (B3F0732-MS1)

Source: Y306155-01

Prepared: 06/07/2023 Analyzed: 06/08/2023

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 - McKinstry 28N 21N 7C 2N 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 B3F0732 - EPA 3050B

Matrix Spike (B3F0732-MS1)		Source: Y306155-01			Prepared: 06/07/2023 Analyzed: 06/08/2023					
Arsenic	8.39	0.0857	mg/kg	4.28	3.79	107	75-125			
Barium	559	8.57	"	428	134	99.2	75-125			
Cadmium	4.75	0.0857	"	4.28	0.212	106	75-125			
Copper	54.6	8.57	"	42.8	9.55	105	75-125			
Lead	16.5	8.57	"	4.28	9.95	153	75-125			QM-07
Nickel	15.4	8.57	"	4.28	10.1	122	75-125			
Selenium	4.41	0.0857	"	4.28	0.241	97.4	75-125			
Silver	4.32	0.0857	"	4.28	0.0446	99.7	75-125			
Zinc	83.8	85.7	"	42.8	36.6	110	75-125			

Matrix Spike Dup (B3F0732-MSD1)		Source: Y306155-01			Prepared: 06/07/2023 Analyzed: 06/08/2023					
Arsenic	137	0.0942	mg/kg	4.71	3.79	NR	75-125	177	20	QM-07, QR-DUP
Barium	609	9.42	"	471	134	101	75-125	8.55	20	
Cadmium	5.48	0.0942	"	4.71	0.212	112	75-125	14.2	20	
Copper	65.0	9.42	"	47.1	9.55	118	75-125	17.4	20	
Lead	19.0	9.42	"	4.71	9.95	192	75-125	14.0	20	QM-07
Nickel	16.7	9.42	"	4.71	10.1	140	75-125	8.46	20	QM-07
Selenium	4.93	0.0942	"	4.71	0.241	99.6	75-125	11.0	20	
Silver	4.65	0.0942	"	4.71	0.0446	97.8	75-125	7.46	20	
Zinc	92.1	94.2	"	47.1	36.6	118	75-125	9.52	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F0815 - DTPA Sorbitol Preparation

Blank (B3F0815-BLK1)

Prepared: 06/08/2023 Analyzed: 06/09/2023

Boron ND 0.100 mg/L

Duplicate (B3F0815-DUP1)

Source: Y306139-01

Prepared: 06/08/2023 Analyzed: 06/09/2023

Boron 0.967 0.0991 mg/L 0.888 8.47 50

Batch B3F0821 - Saturated Paste Metals

Blank (B3F0821-BLK1)

Prepared: 06/08/2023 Analyzed: 06/09/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3F0821-DUP1)

Source: Y306176-01

Prepared: 06/08/2023 Analyzed: 06/09/2023

SAR 0.00 SAR 0.304 200 200

Calcium PPM 23.8 10.0 mg/L 25.8 8.31 50

Magnesium PPM 3.02 10.0 " 3.15 4.21 50

Sodium PPM 4.32 10.0 " 6.15 35.0 50

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F0825 - Saturated Paste pH/EC										
Blank (B3F0825-BLK1)					Prepared: 06/08/2023 Analyzed: 06/09/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F0825-DUP1)					Source: Y306176-01 Prepared: 06/08/2023 Analyzed: 06/09/2023					
Specific Conductance (EC)	0.189	0.00500	mmhos/cm		0.200			5.56	25	
pH	8.32		pH Units		8.32			0.00	25	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 L688138 - 3550B

MSD (L 86795-MSD-L688138)		Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023					
Chrysene	0.114	0.00067	mg/Kg	0.163	0.00128	69.1	30-130	1.7	30	
Acenaphthene	0.108	0.00067	"	0.163	0.00102	65.6	30-130	0.9	30	
Pyrene	0.108	0.00067	"	0.163	0.00178	65.1	30-130	0.9	30	
Naphthalene	0.0999	0.00201	"	0.163	<0.00145	61.2	30-130	0.1	30	
Indeno(1,2,3-cd)pyrene	0.097	0.00067	"	0.163	<0.000627	59.5	30-130	0.2	30	
Fluorene	0.122	0.00067	"	0.163	0.00582	71.2	30-130	0.8	30	
Fluoranthene	0.126	0.00067	"	0.163	0.000892	76.7	30-130	0.7	30	
Dibenz(a,h)anthracene	0.135	0.00067	"	0.163	<0.000614	82.8	30-130	2.2	30	
2-Methylnaphthalene	0.111	0.00201	"	0.163	0.00336	66	30-130	0.8	30	
1-Methylnaphthalene	0.113	0.00201	"	0.163	0.00676	65.1	30-130	0.8	30	
Benzo(a)anthracene	0.112	0.00067	"	0.163	0.000512	68.3	30-130	0.8	30	
Benzo(k)fluoranthene	0.0854	0.00067	"	0.163	<0.000437	52.3	30-130	6	30	
Anthracene	0.118	0.00067	"	0.163	0.000341	72.1	30-130	2.5	30	
Benzo(a)pyrene	0.122	0.00067	"	0.163	<0.000468	74.8	30-130	1.6	30	
Benzo(b)fluoranthene	0.0779	0.00067	"	0.163	0.00065	47.3	30-130	8.4	30	
Surrogate: Nitrobenzene-d5	54.1		"	0.327	200	54.1	29-110			
Surrogate: 2-Fluorobiphenyl	68.8		"	0.327	237	68.8	33-115			
Surrogate: 4-Terphenyl-d14	68.8		"	0.327	231	68.8	33-122			

MS (L 86795-MS-L688138)		Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023					
Dibenz(a,h)anthracene	0.132	0.00067	mg/Kg	0.162	<0.000614	81.4	30-130			
Benzo(k)fluoranthene	0.0907	0.00067	"	0.162	<0.000437	55.9	30-130			
Naphthalene	0.1	0.00201	"	0.162	<0.00145	61.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0972	0.00067	"	0.162	<0.000627	60	30-130			
Fluoranthene	0.125	0.00067	"	0.162	0.000892	76.6	30-130			
Pyrene	0.107	0.00067	"	0.162	0.00178	64.9	30-130			
Chrysene	0.112	0.00067	"	0.162	0.00128	68.3	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 - McKinstry 28N 21N 7C 2N 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 L688138 - 3550B

MS (L 86795-MS-L688138)	Source: 86795			Prepared: 06/16/2023 Analyzed: 06/17/2023						
Benzo(a)pyrene	0.12	0.00067	mg/Kg	0.162	<0.000468	74	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.162	0.000512	69.4	30-130			
Anthracene	0.115	0.00067	"	0.162	0.000341	70.7	30-130			
Acenaphthene	0.107	0.00067	"	0.162	0.00102	65.4	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.162	0.00336	67	30-130			
1-Methylnaphthalene	0.114	0.00201	"	0.162	0.00676	66.1	30-130			
Benzo(b)fluoranthene	0.0716	0.00067	"	0.162	0.00065	43.7	30-130			
Fluorene	0.121	0.00067	"	0.162	0.00582	71	30-130			
Surrogate: Nitrobenzene-d5	57.5		"	0.325	200	57.5	29-110			
Surrogate: 4-Terphenyl-d14	67		"	0.325	231	67	33-122			
Surrogate: 2-Fluorobiphenyl	68		"	0.325	237	68	33-115			

LCS (LCS-L688138)	Prepared: 06/16/2023 Analyzed: 06/17/2023									
Pyrene	0.103	0.00067	mg/Kg	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0793	0.00067	"	0.167		47.4	30-130			
Benzo(k)fluoranthene	0.0893	0.00067	"	0.167		53.4	30-130			
Chrysene	0.108	0.00067	"	0.167		64.6	30-130			
Fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0903	0.00067	"	0.167		54	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.13	0.00067	"	0.167		77.8	30-130			
Naphthalene	0.0942	0.00201	"	0.167		56.4	30-130			
Anthracene	0.112	0.00067	"	0.167		67	30-130			
Acenaphthene	0.0994	0.00067	"	0.167		59.5	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.099	0.00201	"	0.167		59.2	30-130			
Fluorene	0.112	0.00067	"	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 - McKinstry 28N 21N 7C 2N 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 L688138 - 3550B

LCS (LCS-L688138)

Prepared: 06/16/2023 Analyzed: 06/17/2023

Benzo(a)anthracene	0.108	0.00067	mg/Kg	0.167		64.6	30-130			
Surrogate: Nitrobenzene-d5	56.7		"	0.333		56.7	29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			

LRB (LRB-L688138)

Prepared: 06/16/2023 Analyzed: 06/17/2023

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	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 - McKinstry 28N 21N 7C 2N 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
Batch L687804 -										
DUP (L 86806-DUP)		Source: Y306175-04			Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 86806-MS)		Source: Y306175-04			Prepared: Analyzed: 06/15/2023					
Chromium, Hexavalent	33.5	2.5	mg/Kg	38.8	<1.22	86	75-125			
LCS (LCS)		Prepared: Analyzed: 06/15/2023								
Chromium, Hexavalent	7.09	0.5	mg/Kg	8		89	75-125			
LRB (LRB)		Prepared: Analyzed: 06/15/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - McKinstry 28N 21N 7C 2N 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.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager



July 06, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. June 27, 2023. This project is associated with Origins project number Y306756-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B01@6'	Y306756-01	Soil	June 27, 2023 9:10	06/27/2023 16:16
SEP-N01@3'	Y306756-02	Soil	June 27, 2023 9:12	06/27/2023 16:16
SEP-S01@3'	Y306756-03	Soil	June 27, 2023 9:14	06/27/2023 16:16
SEP-E01@3'	Y306756-04	Soil	June 27, 2023 9:16	06/27/2023 16:16
SEP-W01@3'	Y306756-05	Soil	June 27, 2023 9:18	06/27/2023 16:16
SEP-B02@3'	Y306756-06	Soil	June 27, 2023 9:28	06/27/2023 16:16
SEP-B02@6'	Y306756-07	Soil	June 27, 2023 9:30	06/27/2023 16:16
SEP-B03@3'	Y306756-08	Soil	June 27, 2023 9:32	06/27/2023 16:16
SEP-B03@6'	Y306756-09	Soil	June 27, 2023 9:36	06/27/2023 16:16
SEP-B04@3'	Y306756-10	Soil	June 27, 2023 9:38	06/27/2023 16:16
SEP-B04@6'	Y306756-11	Soil	June 27, 2023 9:40	06/27/2023 16:16
SEP-B05@3'	Y306756-12	Soil	June 27, 2023 9:45	06/27/2023 16:16
SEP-B05@6'	Y306756-13	Soil	June 27, 2023 9:50	06/27/2023 16:16

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 - McKinstry 28N 21N 7C 2N OSA

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



4300756
 Impound

page 1 of 2

www.originslaboratory.com

Client: Eagle Environmental (env)
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: dcoloccia@eagle-enviro.com
 Project Manager: D. Colocc
 Project Name: McKinstry 28N 21N 7C 2N OSA
 Project Number: —
 Samples Collected By: CG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater		
SEP-B0106'	6/27/23	0910	3	X				X		*All PAHs except
SEP-N0103'		0912								benz(a)per.
SEP-S0103'		0914								benz(a)fluor.
SEP-E0103'		0916								benz(a)fluor.
SEP-W0103'		0918								
SEP-B0203'		0928								
SEP-B0206'		0930								
SEP-B0303'		0932								
SEP-B0306'		0936								
SEP-B0403'		0938								

Temp Received: 2 Date Results Needed

Relinquished By: Chris Radin Date: 6/27/23 Time: 1010
 Received By: [Signature] Date: 6/27/23 Time: 1010
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

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 - McKinstry 28N 21N 7C 2N OSA

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			Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX		TMGs	TPH		
SEP-60496	6/27/23	0940	3	X					X								
SEP-60523		0945															
SEP-60526		0950															

Client: Eagle Environmental (ex)
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0471
 Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia
 Project Name: McKinstry 28N 21N 7C 2N OSA
 Project Number: 1
 Samples Collected By: CS

Relinquished By: Chris Rodin
 Date: 6/27/23
 Time: 1100

Received By: CS
 Date: 6/27/23
 Time: 1100

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

Temp Received - 2 Date Results Needed

ORIGINS
LABORATORY, INC

4304754
Impound

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 page 2 of 2

Origins Laboratory, Inc.
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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB06754

Client: Eagle Environmental

Client Project ID: McKinstry 28N, 21N, 7C 2N O

Checklist Completed by: JSH/MS

Shipped Via: Hand Delivered

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

Date/time completed: 6/27/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2 °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 ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ O ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/27/23

Origins Laboratory, Inc.

[Signature]

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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B01@6'
 6/27/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.987	0.0991	mg/L	1	B3F2816	CIH	06/28/2023	06/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	100 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	0.0200	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	0.00326	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.0152	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	1.74	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	80.9 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B01@6'
 6/27/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	11.9	0.499	meq/L	10	[CALC]	CIH	06/28/2023	06/29/2023	
Magnesium	8.04	0.823	"	"	"	CIH	"	"	
Sodium	18.2	0.435	"	"	"	CIH	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.012	0.002	mg/kg	1	B3F2728	agile	06/27/2023	06/30/2023	
2-Methylnaphthalene	0.017	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.004	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	106 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	96.5 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	90.2 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B01@6'
 6/27/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-01 (Soil)

SAR by 20B Saturated Paste

SAR	5.76		SAR	1	B3F2812	CIH	06/28/2023	06/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.37	0.00500	mmhos/cm	1	B3F2820	HJD	06/28/2023	06/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.73	0.0952	mg/kg	10	B3F2726	CIH	06/27/2023	06/28/2023	
Barium	110	9.52	"	"	"	CIH	"	"	
Selenium	0.167	0.0952	"	"	"	CIH	"	06/29/2023	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N01@3'
 6/27/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.85	0.0984	mg/L	1	B3F2816	CIH	06/28/2023	06/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	98.7 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	79.6 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N01@3'
 6/27/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	11.2	0.499	meq/L	10	[CALC]	CIH	06/28/2023	06/29/2023	
Magnesium	7.40	0.823	"	"	"	CIH	"	"	
Sodium	27.0	0.435	"	"	"	CIH	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2728	agile	06/27/2023	06/30/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	101 %	60-130			"	"		"	
Surrogate: 2-Fluorobiphenyl	95.7 %	60-130			"	"		"	
Surrogate: Terphenyl-d14	95.2 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N01@3'
 6/27/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-02 (Soil)

SAR by 20B Saturated Paste

SAR	8.85		SAR	1	B3F2813	CIH	06/28/2023	06/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.53	0.00500	mmhos/cm	1	B3F2821	HJD	06/28/2023	06/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.20	0.0833	mg/kg	10	B3F2726	CIH	06/27/2023	06/29/2023	
Barium	130	8.33	"	"	"	CIH	"	"	
Selenium	0.168	0.0833	"	"	"	CIH	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S01@3'
 6/27/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-03 (Soil)

Boron (DTPA Sorbitol)

Boron	4.47	0.100	mg/L	1	B3F2816	CIH	06/28/2023	06/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	103 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	79.3 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-S01@3'
 6/27/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	7.43	0.499	meq/L	10	[CALC]	CIH	06/28/2023	06/29/2023	
Magnesium	4.42	0.823	"	"	"	CIH	"	"	
Sodium	57.4	0.435	"	"	"	CIH	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2728	agile	06/27/2023	06/30/2023	U
2-Methylnaphthalene	0.002	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	98.4 %	60-130			"	"			
Surrogate: 2-Fluorobiphenyl	101 %	60-130			"	"			
Surrogate: Terphenyl-d14	93.4 %	60-130			"	"			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S01@3'
 6/27/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-03 (Soil)

SAR by 20B Saturated Paste

SAR	23.6		SAR	1	B3F2813	CIH	06/28/2023	06/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.31	0.00500	mmhos/cm	1	B3F2821	HJD	06/28/2023	06/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.29	0.0941	mg/kg	10	B3F2726	CIH	06/27/2023	06/29/2023	
Barium	152	9.41	"	"	"	CIH	"	"	
Selenium	0.244	0.0941	"	"	"	CIH	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-E01@3'
 6/27/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.93	0.101	mg/L	1	B3F2816	CIH	06/28/2023	06/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	100 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	0.00428	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	79.0 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-E01@3'
 6/27/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	9.29	0.499	meq/L	10	[CALC]	CIH	06/28/2023	06/29/2023	
Magnesium	6.26	0.823	"	"	"	CIH	"	"	
Sodium	19.8	0.435	"	"	"	CIH	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2728	agile	06/27/2023	06/30/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	97.6 %	60-130			"	"	"	
Surrogate: 2-Fluorobiphenyl	99.1 %	60-130			"	"	"	
Surrogate: Terphenyl-d14	98.6 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-E01@3'
 6/27/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-04 (Soil)

SAR by 20B Saturated Paste

SAR	7.11		SAR	1	B3F2813	CIH	06/28/2023	06/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.49	0.00500	mmhos/cm	1	B3F2821	HJD	06/28/2023	06/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.57	0.0857	mg/kg	10	B3F2726	CIH	06/27/2023	06/29/2023	
Barium	141	8.57	"	"	"	CIH	"	"	
Selenium	0.159	0.0857	"	"	"	CIH	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-W01@3'
 6/27/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-05 (Soil)

Boron (DTPA Sorbitol)

Boron	3.89	0.0994	mg/L	1	B3F2817	CIH	06/28/2023	06/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	93.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	78.5 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-W01@3'
 6/27/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	7.37	0.499	meq/L	10	[CALC]	CIH	06/28/2023	06/29/2023	
Magnesium	4.94	0.823	"	"	"	CIH	"	"	
Sodium	40.6	0.435	"	"	"	CIH	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B3F2728	agile	06/27/2023	07/04/2023	
2-Methylnaphthalene	0.011	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.007	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	76.6 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	107 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	98.7 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-W01@3'
 6/27/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-05 (Soil)

SAR by 20B Saturated Paste

SAR	16.4		SAR	1	B3F2813	CIH	06/28/2023	06/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.66	0.00500	mmhos/cm	1	B3F2821	HJD	06/28/2023	06/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.75	0.0878	mg/kg	10	B3F2726	CIH	06/27/2023	06/29/2023	
Barium	137	8.78	"	"	"	CIH	"	"	
Selenium	0.178	0.0878	"	"	"	CIH	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B02@3'
 6/27/2023 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 103 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 87.2 % 70-130 " " "
 Surrogate: Toluene-d8 93.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 79.3 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B02@6'
6/27/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 105 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00390	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	0.0300	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.00470	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.8 % 70-130 " " "
 Surrogate: Toluene-d8 91.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 78.1 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B03@3'
 6/27/2023 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 92.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 89.5 % 70-130 " " "
 Surrogate: Toluene-d8 92.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 79.2 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B03@6'
 6/27/2023 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 99.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.2 % 70-130 " " "
 Surrogate: Toluene-d8 92.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 78.0 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B04@3'
 6/27/2023 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 97.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.2 % 70-130 " " "
 Surrogate: Toluene-d8 92.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 78.1 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B04@6'
 6/27/2023 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.3 % 70-130 " " "
 Surrogate: Toluene-d8 92.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 78.9 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B05@3'
6/27/2023 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306756-12 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 95.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.9 % 70-130 " " "
 Surrogate: Toluene-d8 91.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 79.0 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B05@6'
 6/27/2023 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306756-13 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2727	ZZZ	06/27/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 96.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2729	JSM	06/27/2023	06/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	0.00408	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	0.00256	0.00200	"	"	"	JSM	"	"	
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.00222	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.1 % 70-130 " " "
 Surrogate: Toluene-d8 91.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 79.2 % 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 - McKinstry 28N 21N 7C 2N 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
Batch B3F2727 - EPA 3550B										
Blank (B3F2727-BLK1)										
					Prepared: 06/27/2023 Analyzed: 06/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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 - McKinstry 28N 21N 7C 2N 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 B3F2727 - EPA 3550B

LCS (B3F2727-BS1)

Prepared: 06/27/2023 Analyzed: 06/27/2023

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F2727 - EPA 3550B

Matrix Spike (B3F2727-MS1)	Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/27/2023						
Diesel (C10-C28)	956	50.0	mg/kg	1000	ND	95.6	70-130			
Residual Range Organics (C28-C40)	911	200	"	1000	ND	91.1	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3F2727 - EPA 3550B										
Matrix Spike Dup (B3F2727-MSD1)					Source: Y306756-01					Prepared: 06/27/2023 Analyzed: 06/27/2023
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130	2.87	35	
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130	2.32	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F2729 - EPA 5030 (soil)

Blank (B3F2729-BLK1)

Prepared: 06/27/2023 Analyzed: 06/28/2023

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	95.5		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	110		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		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 - McKinstry 28N 21N 7C 2N 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 B3F2729 - EPA 5030 (soil)

LCS (B3F2729-BS1)

Prepared: 06/27/2023 Analyzed: 06/28/2023

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.0875	0.00200	"	0.100		87.5	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Naphthalene	0.0940	0.00380	"	0.100		94.0	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.119	0.00200	"	0.100		119	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	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 - McKinstry 28N 21N 7C 2N 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 B3F2729 - EPA 5030 (soil)

Matrix Spike (B3F2729-MS1)	Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/28/2023						
1,2,4-Trimethylbenzene	0.138	0.00200	mg/kg	0.100	0.00188	137	70-130			QM-07
1,3,5-Trimethylbenzene	0.129	0.00200	"	0.100	0.0200	109	70-130			
Benzene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	0.00326	103	70-130			
Naphthalene	0.120	0.00380	"	0.100	ND	120	70-130			
Toluene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
o-Xylene	0.129	0.00200	"	0.100	0.0122	117	70-130			
m,p-Xylene	0.236	0.00400	"	0.200	0.00306	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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 - McKinstry 28N 21N 7C 2N 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 B3F2729 - EPA 5030 (soil)

Matrix Spike Dup (B3F2729-MSD1)	Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/28/2023						
1,2,4-Trimethylbenzene	0.153	0.00200	mg/kg	0.100	0.00188	151	70-130	10.1	20	QM-07
1,3,5-Trimethylbenzene	0.145	0.00200	"	0.100	0.0200	125	70-130	11.8	20	
Benzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	9.41	20	
Ethylbenzene	0.121	0.00200	"	0.100	0.00326	118	70-130	13.2	20	
Naphthalene	0.131	0.00380	"	0.100	ND	131	70-130	8.93	20	QM-07
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	10.8	20	
o-Xylene	0.144	0.00200	"	0.100	0.0122	132	70-130	10.9	20	QM-07
m,p-Xylene	0.266	0.00400	"	0.200	0.00306	132	70-130	12.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	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 - McKinstry 28N 21N 7C 2N 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 B3F2726 - EPA 3050B

Blank (B3F2726-BLK1)

Prepared: 06/27/2023 Analyzed: 06/28/2023

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 (B3F2726-BS1)

Prepared: 06/27/2023 Analyzed: 06/28/2023

Arsenic	0.0517	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.28	0.0100	"	5.00		106	80-120			
Cadmium	0.0537	0.000100	"	0.0500		107	80-120			
Copper	0.532	0.0100	"	0.500		106	80-120			
Lead	0.0521	0.0100	"	0.0500		104	80-120			
Nickel	0.0525	0.0100	"	0.0500		105	80-120			
Selenium	0.0487	0.000100	"	0.0500		97.4	80-120			
Silver	0.0518	0.000100	"	0.0500		104	80-120			
Zinc	0.505	0.100	"	0.500		101	80-120			

Matrix Spike (B3F2726-MS1)

Source: Y306756-01

Prepared: 06/27/2023 Analyzed: 06/28/2023

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 - McKinstry 28N 21N 7C 2N 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 B3F2726 - EPA 3050B

Matrix Spike (B3F2726-MS1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/28/2023					
Arsenic	7.22	0.0837	mg/kg	4.19	3.73	83.3	75-125			
Barium	532	8.37	"	419	110	101	75-125			
Cadmium	4.57	0.0837	"	4.19	0.143	106	75-125			
Copper	47.2	8.37	"	41.9	7.01	96.0	75-125			
Lead	10.5	8.37	"	4.19	7.35	74.3	75-125			QM-07
Nickel	11.8	8.37	"	4.19	8.81	72.2	75-125			QM-07
Selenium	3.86	0.0837	"	4.19	0.167	88.3	75-125			
Silver	4.30	0.0837	"	4.19	0.0371	102	75-125			
Zinc	68.8	83.7	"	41.9	33.7	83.8	75-125			

Matrix Spike Dup (B3F2726-MSD1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/28/2023					
Arsenic	7.89	0.0864	mg/kg	4.32	3.73	96.2	75-125	8.83	20	
Barium	564	8.64	"	432	110	105	75-125	5.89	20	
Cadmium	4.65	0.0864	"	4.32	0.143	104	75-125	1.73	20	
Copper	49.4	8.64	"	43.2	7.01	98.2	75-125	4.53	20	
Lead	11.8	8.64	"	4.32	7.35	104	75-125	12.4	20	
Nickel	13.7	8.64	"	4.32	8.81	113	75-125	14.6	20	
Selenium	4.08	0.0864	"	4.32	0.167	90.7	75-125	5.54	20	
Silver	4.36	0.0864	"	4.32	0.0371	100	75-125	1.47	20	
Zinc	75.0	86.4	"	43.2	33.7	95.5	75-125	8.57	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2728 - EPA 3580

Blank (B3F2728-BLK1)

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Nitrobenzene-d5	200		ug/kg	200	97.9	60-130
Surrogate: 2-Fluorobiphenyl	200		"	200	101	60-130
Surrogate: Terphenyl-d14	180		"	200	91.6	60-130

LCS (B3F2728-BS1)

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	107	70-130
2-Methylnaphthalene	0.229	0.002	"	0.200	114	70-130
Acenaphthene	0.204	0.020	"	0.200	102	70-130
Anthracene	0.220	0.020	"	0.200	110	70-130
Benzo (a) anthracene	0.208	0.005	"	0.200	104	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2728 - EPA 3580

LCS (B3F2728-BS1)

Prepared: 06/27/2023 Analyzed: 06/29/2023

Benzo (a) pyrene	0.203	0.020	mg/kg	0.200		102	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.6	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.208	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200		103	70-130			
Fluoranthene	0.238	0.020	"	0.200		119	70-130			
Fluorene	0.220	0.020	"	0.200		110	70-130			
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200		101	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.213	0.020	"	0.200		106	70-130			
Pyrene	0.178	0.020	"	0.200		89.2	70-130			
Surrogate: Nitrobenzene-d5	190		ug/kg	200		94.1	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		101	60-130			
Surrogate: Terphenyl-dl4	170		"	200		86.7	60-130			

Matrix Spike (B3F2728-MS1)

Source: Y306756-01

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	0.262	0.002	mg/kg	0.200	0.012	125	70-130			
2-Methylnaphthalene	0.266	0.002	"	0.200	0.017	125	70-130			
Acenaphthene	0.240	0.020	"	0.200	ND	120	70-130			
Anthracene	0.259	0.020	"	0.200	ND	129	70-130			
Benzo (a) anthracene	0.259	0.005	"	0.200	ND	129	70-130			
Benzo (a) pyrene	0.229	0.020	"	0.200	0.004	112	70-130			
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.004	106	70-130			
Benzo (g,h,i) perylene	0.225	0.020	"	0.200	ND	113	70-130			
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	106	70-130			
Chrysene	0.256	0.020	"	0.200	ND	128	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2728 - EPA 3580

Matrix Spike (B3F2728-MS1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023					
Dibenz (a,h) anthracene	0.218	0.020	mg/kg	0.200	ND	109	70-130			
Fluoranthene	0.260	0.020	"	0.200	ND	130	70-130			
Fluorene	0.261	0.020	"	0.200	0.002	129	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.240	0.002	"	0.200	0.004	118	70-130			
Phenanthrene	0.266	0.020	"	0.200	0.002	132	70-130			QM-07
Pyrene	0.254	0.020	"	0.200	ND	127	70-130			
Surrogate: Nitrobenzene-d5	180		ug/kg	200		91.5	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		99.7	60-130			
Surrogate: Terphenyl-dl4	200		"	200		98.8	60-130			

Matrix Spike Dup (B3F2728-MSD1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023					
1-Methylnaphthalene	0.233	0.002	mg/kg	0.200	0.012	111	70-130	11.7	20	
2-Methylnaphthalene	0.237	0.002	"	0.200	0.017	110	70-130	11.6	20	
Acenaphthene	0.230	0.020	"	0.200	ND	115	70-130	4.07	20	
Anthracene	0.234	0.020	"	0.200	ND	117	70-130	10.3	20	
Benzo (a) anthracene	0.230	0.005	"	0.200	ND	115	70-130	11.9	20	
Benzo (a) pyrene	0.216	0.020	"	0.200	0.004	106	70-130	5.68	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.004	101	70-130	4.75	20	
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	ND	112	70-130	0.878	20	
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130	0.311	20	
Chrysene	0.233	0.020	"	0.200	ND	116	70-130	9.65	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	0.913	20	
Fluoranthene	0.233	0.020	"	0.200	ND	116	70-130	10.8	20	
Fluorene	0.230	0.020	"	0.200	0.002	114	70-130	12.7	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130	6.43	20	
Naphthalene	0.217	0.002	"	0.200	0.004	107	70-130	9.99	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2728 - EPA 3580

Matrix Spike Dup (B3F2728-MSD1)	Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023						
Phenanthrene	0.221	0.020	mg/kg	0.200	0.002	110	70-130	18.7	20	
Pyrene	0.221	0.020	"	0.200	ND	110	70-130	13.9	20	
Surrogate: Nitrobenzene-d5	170		ug/kg	200		84.2	60-130			
Surrogate: 2-Fluorobiphenyl	220		"	200		112	60-130			
Surrogate: Terphenyl-d14	200		"	200		98.3	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F2812 - Saturated Paste Metals

Blank (B3F2812-BLK1)

Prepared: 06/28/2023 Analyzed: 06/29/2023

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

Duplicate (B3F2812-DUP1)

Source: Y306736-04

Prepared: 06/28/2023 Analyzed: 06/29/2023

Calcium PPM	45.9	10.0	mg/L		42.9			6.76	50	
SAR	0.00		SAR		0.537			200	200	
Magnesium PPM	10.1	10.0	mg/L		9.70			4.04	50	
Sodium PPM	16.5	10.0	"		15.0			9.66	50	

Batch B3F2813 - Saturated Paste Metals

Blank (B3F2813-BLK1)

Prepared: 06/28/2023 Analyzed: 06/29/2023

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

Duplicate (B3F2813-DUP1)

Source: Y306713-01

Prepared: 06/28/2023 Analyzed: 06/29/2023

Calcium PPM	88.0	10.0	mg/L		103			15.2	50	
SAR	0.00		SAR		3.87			200	200	
Magnesium PPM	35.0	10.0	mg/L		37.9			7.76	50	
Sodium PPM	202	10.0	"		180			11.3	50	

Batch B3F2816 - DTPA Sorbitol Preparation

Blank (B3F2816-BLK1)

Prepared: 06/28/2023 Analyzed: 06/29/2023

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 - McKinstry 28N 21N 7C 2N 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
Batch B3F2816 - DTPA Sorbitol Preparation										
Blank (B3F2816-BLK1)					Prepared: 06/28/2023 Analyzed: 06/29/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3F2816-DUP1)		Source: Y306736-07			Prepared: 06/28/2023 Analyzed: 06/29/2023					
Boron	0.0958	0.101	mg/L		0.0846			12.5	50	
Batch B3F2817 - DTPA Sorbitol Preparation										
Blank (B3F2817-BLK1)					Prepared: 06/28/2023 Analyzed: 06/29/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3F2817-DUP1)		Source: Y306662-01			Prepared: 06/28/2023 Analyzed: 06/29/2023					
Boron	0.487	0.0986	mg/L		0.509			4.54	50	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3F2820 - Saturated Paste pH/EC

Blank (B3F2820-BLK1)

Prepared: 06/28/2023 Analyzed: 06/29/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3F2820-DUP1)

Source: Y306736-04

Prepared: 06/28/2023 Analyzed: 06/29/2023

Specific Conductance (EC) 0.351 0.00500 mmhos/cm 0.337 4.13 25

Batch B3F2821 - Saturated Paste pH/EC

Blank (B3F2821-BLK1)

Prepared: 06/28/2023 Analyzed: 06/29/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3F2821-DUP1)

Source: Y306713-01

Prepared: 06/28/2023 Analyzed: 06/29/2023

Specific Conductance (EC) 1.49 0.00500 mmhos/cm 1.44 3.29 25

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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.



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Jordan A. Bynon, Project Manager



July 13, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. July 06, 2023. This project is associated with Origins project number Y307053-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B06@9'	Y307053-01	Soil	July 6, 2023 9:30	07/06/2023 14:10
SEP-N02@8'	Y307053-02	Soil	July 6, 2023 9:35	07/06/2023 14:10
SEP-E02@8'	Y307053-03	Soil	July 6, 2023 9:37	07/06/2023 14:10

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4307053

Client: Eagle

Client Project ID: McKinstry 28N 21N 7C 2N OSA

Checklist Completed by: ACN/ETH

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

Date/time completed: 7/16/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 7/16/23

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B06@9'

7/6/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-01 (Soil)

Boron (DTPA Sorbitol)

Boron	4.09	0.100	mg/L	1	B3G0710		07/07/2023	07/10/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G0621	DM	07/06/2023	07/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: o-Terphenyl	98.4 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0252	0.00200	mg/kg	1	B3G0623	H S	07/06/2023	07/06/2023	
1,3,5-Trimethylbenzene	0.0127	0.00200	"	"	"	H S	"	"	
Benzene	0.385	0.00200	"	"	"	H S	"	"	
Ethylbenzene	0.00722	0.00200	"	"	"	H S	"	"	
Toluene	0.0162	0.00200	"	"	"	H S	"	"	
Xylenes, total	0.109	0.00200	"	"	"	H S	"	"	
Gasoline Range Hydrocarbons	0.893	0.200	"	"	"	H S	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.2	4.99	meq/L	100	[CALC]		07/07/2023	07/10/2023	
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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 - McKinstry 28N 21N 7C 2N OSA

SEP-B06@9'

7/6/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307053-01 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	11.7	8.23	meq/L	100	[CALC]		07/07/2023	07/10/2023	
Sodium	87.6	4.35	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B3G0622	e	07/06/2023	07/07/2023	
2-Methylnaphthalene	0.006	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Anthracene	ND	0.020	"	"	"	e	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	0.004	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: Nitrobenzene-d5	90.1 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	97.2 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	115 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B06@9'

7/6/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-01 (Soil)

SAR by 20B Saturated Paste

SAR	25.9		SAR	1	B3G0712		07/07/2023	07/10/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	11.8	0.00500	mmhos/cm	1	B3G0715	C	07/07/2023	07/08/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.97	0.0852	mg/kg	10	B3G0626	C G	07/06/2023	07/06/2023	
Barium	151	8.52	"	"	"	C G	"	"	
Selenium	0.330	0.0852	"	"	"	C G	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N02@8'

7/6/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-02 (Soil)

Boron (DTPA Sorbitol)

Boron	5.64	0.100	mg/L	1	B3G0710		07/07/2023	07/10/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G0621	DM	07/06/2023	07/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: <i>o</i> -Terphenyl	95.6 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0273	0.00200	mg/kg	1	B3G0623	H S	07/06/2023	07/06/2023	
1,3,5-Trimethylbenzene	0.00726	0.00200	"	"	"	H S	"	"	
Benzene	0.0890	0.0500	"	25	"	H	"	07/07/2023	
Ethylbenzene	0.0212	0.00200	"	1	"	H S	"	07/06/2023	
Toluene	0.00512	0.00200	"	"	"	H S	"	"	
Xylenes, total	0.169	0.00200	"	"	"	H S	"	"	
Gasoline Range Hydrocarbons	0.379	0.200	"	"	"	H S	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.61	4.99	meq/L	100	[CALC]		07/07/2023	07/10/2023	
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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 - McKinstry 28N 21N 7C 2N OSA

SEP-N02@8'

7/6/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307053-02 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	ND	8.23	meq/L	100	[CALC]		07/07/2023	07/10/2023	
Sodium	91.7	4.35	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G0622	e	07/06/2023	07/07/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	e	"	"	U
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Anthracene	ND	0.020	"	"	"	e	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	0.003	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: Nitrobenzene-d5	93.1 %	60-130			"	"	"	
Surrogate: 2-Fluorobiphenyl	101 %	60-130			"	"	"	
Surrogate: Terphenyl-d14	115 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N02@8'

7/6/2023 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-02 (Soil)

SAR by 20B Saturated Paste

SAR	38.4		SAR	1	B3G0712		07/07/2023	07/10/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	10.8	0.00500	mmhos/cm	1	B3G0715	C	07/07/2023	07/08/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.24	0.0997	mg/kg	10	B3G0626	C G	07/06/2023	07/06/2023	
Barium	157	9.97	"	"	"	C G	"	"	
Selenium	0.166	0.0997	"	"	"	C G	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-E02@8'

7/6/2023 9:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-03 (Soil)

Boron (DTPA Sorbitol)

Boron	5.48	0.100	mg/L	1	B3G0710		07/07/2023	07/10/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G0621	DM	07/06/2023	07/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: o-Terphenyl	82.8 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00268	0.00200	mg/kg	1	B3G0623	H S	07/06/2023	07/06/2023	
1,3,5-Trimethylbenzene	0.00304	0.00200	"	"	"	H S	"	"	
Benzene	0.0575	0.00200	"	"	"	H S	"	"	
Ethylbenzene	0.00256	0.00200	"	"	"	H S	"	"	
Toluene	ND	0.00200	"	"	"	H S	"	"	U
Xylenes, total	0.0279	0.00200	"	"	"	H S	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H S	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-E02@8'

7/6/2023 9:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.97	0.499	meq/L	10	[CALC]		07/07/2023	07/10/2023	
Magnesium	3.98	0.823	"	"	"		"	"	
Sodium	67.9	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G0622	e	07/06/2023	07/07/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	e	"	"	U
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Anthracene	ND	0.020	"	"	"	e	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	ND	0.002	"	"	"	e	"	"	U
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: Nitrobenzene-d5	93.3 %	60-130			"		"	"	
Surrogate: 2-Fluorobiphenyl	103 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	100 %	60-130			"		"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-E02@8'

7/6/2023 9:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307053-03 (Soil)

SAR by 20B Saturated Paste

SAR	34.1		SAR	1	B3G0712		07/07/2023	07/10/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.48	0.00500	mmhos/cm	1	B3G0715	C	07/07/2023	07/08/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.92	0.0924	mg/kg	10	B3G0626	C G	07/06/2023	07/06/2023	
Barium	207	9.24	"	"	"	C G	"	"	
Selenium	0.272	0.0924	"	"	"	C G	"	"	

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 - McKinstry 28N 21N 7C 2N 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
Batch B3G0621 - EPA 3550B										
Blank (B3G0621-BLK1)										
					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		90.3	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3G0621 - EPA 3550B										
LCS (B3G0621-BS1)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Diesel (C10-C28)	975	50.0	mg/kg	1000		97.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0621 - EPA 3550B

Matrix Spike (B3G0621-MS1)	Source: Y307052-01			Prepared: 07/06/2023 Analyzed: 07/06/2023						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0621 - EPA 3550B

Matrix Spike Dup (B3G0621-MSD1)	Source: Y307052-01		Prepared: 07/06/2023 Analyzed: 07/06/2023							
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	2.51	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	3.20	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0623 - EPA 5030 (soil)

Blank (B3G0623-BLK1)

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

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	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.0		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 - McKinstry 28N 21N 7C 2N 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 B3G0623 - EPA 5030 (soil)

LCS (B3G0623-BS1)

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

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.0965	0.00200	"	0.100		96.5	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0623 - EPA 5030 (soil)

Matrix Spike (B3G0623-MS1)	Source: Y307052-01			Prepared: 07/06/2023 Analyzed: 07/06/2023						
1,2,4-Trimethylbenzene	0.0791	0.00200	mg/kg	0.100	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
Benzene	0.0746	0.00200	"	0.100	ND	74.6	70-130			
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Naphthalene	0.0835	0.00380	"	0.100	ND	83.5	70-130			
Toluene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
o-Xylene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0623 - EPA 5030 (soil)

Matrix Spike Dup (B3G0623-MSD1)	Source: Y307052-01			Prepared: 07/06/2023 Analyzed: 07/06/2023						
1,2,4-Trimethylbenzene	0.0733	0.00200	mg/kg	0.100	ND	73.3	70-130	7.66	20	
1,3,5-Trimethylbenzene	0.0749	0.00200	"	0.100	ND	74.9	70-130	7.51	20	
Benzene	0.0741	0.00200	"	0.100	ND	74.1	70-130	0.699	20	
Ethylbenzene	0.0815	0.00200	"	0.100	ND	81.5	70-130	4.65	20	
Naphthalene	0.0776	0.00380	"	0.100	ND	77.6	70-130	7.40	20	
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130	4.98	20	
o-Xylene	0.0799	0.00200	"	0.100	ND	79.9	70-130	5.50	20	
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.1	70-130	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G0626 - EPA 3050B

Blank (B3G0626-BLK1)

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

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Selenium	ND	0.000100	"							

LCS (B3G0626-BS1)

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

Arsenic	0.0461	0.000100	mg/kg	0.0500		92.3	80-120			
Barium	4.85	0.0100	"	5.00		97.1	80-120			
Selenium	0.0437	0.000100	"	0.0500		87.4	80-120			

Matrix Spike (B3G0626-MS1)

Source: Y307053-01

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

Arsenic	8.18	0.0874	mg/kg	4.37	4.97	73.5	75-125			QM-07
Barium	553	8.74	"	437	151	92.1	75-125			
Selenium	4.01	0.0874	"	4.37	0.330	84.3	75-125			

Matrix Spike Dup (B3G0626-MSD1)

Source: Y307053-01

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

Arsenic	8.83	0.0907	mg/kg	4.53	4.97	85.2	75-125	7.63	20	
Barium	594	9.07	"	453	151	97.9	75-125	7.18	20	
Selenium	4.55	0.0907	"	4.53	0.330	93.0	75-125	12.5	20	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0622 - EPA 3580

Blank (B3G0622-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Nitrobenzene-d5	180		ug/ g	200		89.7	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		101	60-130			
Surrogate: Terphenyl-d14	190		"	200		93.5	60-130			

LCS (B3G0622-BS1)

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

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.215	0.002	"	0.200		108	70-130			
Acenaphthene	0.203	0.020	"	0.200		102	70-130			
Anthracene	0.216	0.020	"	0.200		108	70-130			
Benzo (a) anthracene	0.173	0.005	"	0.200		86.4	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0622 - EPA 3580

LCS (B3G0622-BS1)

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

Benzo (a) pyrene	0.202	0.020	mg/kg	0.200		101	70-130			
Benzo (b) fluoranthene	0.216	0.020	"	0.200		108	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.210	0.020	"	0.200		105	70-130			
Chrysene	0.217	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.242	0.020	"	0.200		121	70-130			
Fluorene	0.215	0.020	"	0.200		107	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		101	70-130			
Naphthalene	0.205	0.002	"	0.200		102	70-130			
Phenanthrene	0.213	0.020	"	0.200		106	70-130			
Pyrene	0.181	0.020	"	0.200		90.4	70-130			
Surrogate: Nitrobenzene-d5	170		ug/ g	200		87.4	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		103	60-130			
Surrogate: Terphenyl-dl4	180		"	200		91.5	60-130			

Matrix Spike (B3G0622-MS1)

Source: Y307053-01

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

1-Methylnaphthalene	0.246	0.002	mg/kg	0.200	0.004	121	70-130			
2-Methylnaphthalene	0.259	0.002	"	0.200	0.006	126	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	106	70-130			
Anthracene	0.236	0.020	"	0.200	ND	118	70-130			
Benzo (a) anthracene	0.198	0.005	"	0.200	ND	99.1	70-130			
Benzo (a) pyrene	0.224	0.020	"	0.200	0.004	110	70-130			
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.004	108	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (k) fluoranthene	0.239	0.020	"	0.200	ND	120	70-130			
Chrysene	0.233	0.020	"	0.200	ND	117	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0622 - EPA 3580

Matrix Spike (B3G0622-MS1)		Source: Y307053-01			Prepared: 07/06/2023 Analyzed: 07/07/2023					
Dibenz (a,h) anthracene	0.237	0.020	mg/kg	0.200	0.004	116	70-130			
Fluoranthene	0.241	0.020	"	0.200	ND	120	70-130			
Fluorene	0.245	0.020	"	0.200	ND	122	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	ND	118	70-130			
Naphthalene	0.231	0.002	"	0.200	0.004	113	70-130			
Phenanthrene	0.239	0.020	"	0.200	ND	120	70-130			
Pyrene	0.237	0.020	"	0.200	ND	118	70-130			
Surrogate: Nitrobenzene-d5	190		ug/ g	200		93.7	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		101	60-130			
Surrogate: Terphenyl-dl4	200		"	200		100	60-130			

Matrix Spike Dup (B3G0622-MSD1)		Source: Y307053-01			Prepared: 07/06/2023 Analyzed: 07/07/2023					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	0.004	104	70-130	15.1	20	
2-Methylnaphthalene	0.230	0.002	"	0.200	0.006	112	70-130	12.0	20	
Acenaphthene	0.192	0.020	"	0.200	ND	96.2	70-130	10.0	20	
Anthracene	0.199	0.020	"	0.200	ND	99.4	70-130	17.1	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	ND	85.7	70-130	14.5	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	0.004	96.6	70-130	12.9	20	
Benzo (b) fluoranthene	0.212	0.020	"	0.200	0.004	104	70-130	4.06	20	
Benzo (g,h,i) perylene	0.231	0.020	"	0.200	ND	116	70-130	7.89	20	
Benzo (k) fluoranthene	0.198	0.020	"	0.200	ND	98.9	70-130	19.0	20	
Chrysene	0.200	0.020	"	0.200	ND	100	70-130	15.3	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	0.004	97.7	70-130	16.9	20	
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130	10.5	20	
Fluorene	0.203	0.020	"	0.200	ND	101	70-130	18.8	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.1	70-130	17.4	20	
Naphthalene	0.196	0.002	"	0.200	0.004	96.1	70-130	16.3	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0622 - EPA 3580

Matrix Spike Dup (B3G0622-MSD1)	Source: Y307053-01			Prepared: 07/06/2023 Analyzed: 07/07/2023						
Phenanthrene	0.212	0.020	mg/kg	0.200	ND	106	70-130	12.0	20	
Pyrene	0.204	0.020	"	0.200	ND	102	70-130	14.8	20	
<i>Surrogate: Nitrobenzene-d5</i>	<i>180</i>		<i>ug/ g</i>	<i>200</i>		<i>89.9</i>	<i>60-130</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>210</i>		<i>"</i>	<i>200</i>		<i>105</i>	<i>60-130</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>200</i>		<i>"</i>	<i>200</i>		<i>102</i>	<i>60-130</i>			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3G0710 - DTPA Sorbitol Preparation										
Blank (B3G0710-BLK1)					Prepared: 07/07/2023 Analyzed: 07/10/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3G0710-DUP1)		Source: Y307052-01			Prepared: 07/07/2023 Analyzed: 07/10/2023					
Boron	0.210	0.100	mg/L		0.186			11.8	50	
Batch B3G0712 - Saturated Paste Metals										
Blank (B3G0712-BLK1)					Prepared: 07/07/2023 Analyzed: 07/10/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3G0712-DUP1)		Source: Y307052-01			Prepared: 07/07/2023 Analyzed: 07/10/2023					
Calcium PPM	20.4	10.0	mg/L		21.5			5.15	50	
SAR	0.00		SAR		0.282			200	200	
Magnesium PPM	17.1	10.0	mg/L		17.1			0.293	50	
Sodium PPM	3.68	10.0	"		7.21			64.8	50	QR-05

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0715 - Saturated Paste pH/EC										
Blank (B3G0715-BLK1)					Prepared: 07/07/2023 Analyzed: 07/08/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3G0715-DUP1)		Source: Y307052-01			Prepared: 07/07/2023 Analyzed: 07/08/2023					
Specific Conductance (EC)	0.254	0.00500	mmhos/cm		0.262			3.02	25	

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Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

QR-05 Sample results fall below the RL. RPD results are insignificant for batch and are thus acceptable.

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.

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Jordan A. Bynon, Project Manager



August 07, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. July 31, 2023. This project is associated with Origins project number Y307675-01.

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

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

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

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

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

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

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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B07@3"	Y307675-01	Soil	July 31, 2023 8:02	07/31/2023 10:56
SEP-B08@3"	Y307675-02	Soil	July 31, 2023 8:04	07/31/2023 10:56
SEP-B09@3"	Y307675-03	Soil	July 31, 2023 8:06	07/31/2023 10:56
SEP-B10@3"	Y307675-04	Soil	July 31, 2023 8:08	07/31/2023 10:56
SEP-B11@3"	Y307675-05	Soil	July 31, 2023 8:10	07/31/2023 10:56
SEP-B12@3"	Y307675-06	Soil	July 31, 2023 8:12	07/31/2023 10:56

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB07075

Client: Eagle

Client Project ID: McKinstry 28N, 21N 7C, 2N OSA

Checklist Completed by: JM

Shipped Via: HD

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

Date/time completed: 7/31/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6 °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 ⁽¹⁾ ?	<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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ CO ₃ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: JM
 (Project Manager)

7/31/23
 Date/Time Reviewed

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B07@3"
 7/31/2023 8:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	84.1 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	91.3 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B07@3"
 7/31/2023 8:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307675-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.14	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G3117	do	07/31/2023	08/01/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: nthalene-d10	94.6 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	103 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B07@3"

7/31/2023 8:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-01 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	93.6 %	60-130			3 31 1	0 /31/2023	08/01/2023
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SAR by 20B Saturated Paste

SAR	1.38		SAR	1	B3H0108		08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.93	0.0935	mg/kg	10	B3G3112	C H	07/31/2023	08/01/2023
Barium	32.3	9.35	"	"	"	C H	"	"
Selenium	ND	0.0935	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B08@3"
 7/31/2023 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307675-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	85.3 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	90.3 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B08@3"

7/31/2023 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G3117	do	07/31/2023	08/01/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	100 %	60-130		"	"	"	"	"	
Surrogate: nthracene-d10	93.9 %	60-130		"	"	"	"	"	
Surrogate: Benzo a pyrene-d12	104 %	60-130		"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B08@3"

7/31/2023 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-02 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	103 %	60-130			3 31 1	0 /31/2023	08/01/2023
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SAR by 20B Saturated Paste

SAR	1.38		SAR	1	B3H0108		08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.234	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	3.92	0.0954	mg/kg	10	B3G3112	C H	07/31/2023	08/01/2023
Barium	44.5	9.54	"	"	"	C H	"	"
Selenium	0.121	0.0954	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B09@3"
 7/31/2023 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307675-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.516	0.100	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	86.0 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	90.9 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B09@3"

7/31/2023 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.996	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	0.453	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G3117	do	07/31/2023	08/01/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: nthracene-d10	93.7 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	103 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B09@3"

7/31/2023 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y307675-03 (Soil)**

PAH by EPA 8270E

Surrogate: yrene-d10	97.1 %	60-130			3 31 1	0 /31/2023	08/01/2023	
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SAR by 20B Saturated Paste

SAR	1.74		SAR	1	B3H0108		08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.212	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	15.0	0.0917	mg/kg	10	B3G3112	C H	07/31/2023	08/01/2023
Barium	145	9.17	"	"	"	C H	"	"
Selenium	0.219	0.0917	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B10@3"
 7/31/2023 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307675-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	88.9 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	89.5 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B10@3"
7/31/2023 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3G3117	do	07/31/2023	08/01/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	99.8 %	60-130			"	"	"	"	
Surrogate: nthalene-d10	93.9 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	102 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B10@3"

7/31/2023 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-04 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	104 %	60-130			3 31 1	0 /31/2023	08/01/2023
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SAR by 20B Saturated Paste

SAR	0.763		SAR	1	B3H0108		08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.212	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	3.72	0.0906	mg/kg	10	B3G3112	C H	07/31/2023	08/01/2023
Barium	46.4	9.06	"	"	"	C H	"	"
Selenium	0.175	0.0906	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B11@3"
7/31/2023 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.140	0.0993	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	98.3 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Naphthalene	ND	0.00380	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130			"		"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B11@3"
7/31/2023 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.68	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	1.74	0.435	"	"	"		"	"	

pH in Soil by 9045D

pH	8.12		pH Units	1	B3H0112	H D	08/01/2023	08/02/2023	
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SAR by 20B Saturated Paste

SAR	5.39		SAR	1	B3H0108		08/01/2023	08/02/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.497	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023	
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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 - McKinstry 28N 21N 7C 2N OSA

SEP-B12@3"
 7/31/2023 8:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y307675-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3H0105		08/01/2023	08/02/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G3113		07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: *o*-Terphenyl 87.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G3116	H	07/31/2023	07/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Naphthalene	ND	0.00380	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4 128 % 70-130 " " "
 Surrogate: Toluene-d8 94.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 89.9 % 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 - McKinstry 28N 21N 7C 2N OSA

SEP-B12@3"
7/31/2023 8:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307675-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.10	0.499	meq/L	10	[CALC]		08/01/2023	08/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B3H0112	H D	08/01/2023	08/02/2023	
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SAR by 20B Saturated Paste

SAR	1.14		SAR	1	B3H0108		08/01/2023	08/02/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.209	0.00500	mmhos/cm	1	B3H0112	H D	08/01/2023	08/02/2023	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3G3113 - EPA 3550B										
Blank (B3G3113-BLK1)										
					Prepared: 07/31/2023 Analyzed: 07/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.3	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G3113 - EPA 3550B

LCS (B3G3113-BS1)

Prepared: 07/31/2023 Analyzed: 07/31/2023

Diesel (C10-C28)	977	50.0	mg/kg	1000		97.7	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G3113 - EPA 3550B

Matrix Spike (B3G3113-MS1)	Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 07/31/2023						
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3G3113 - EPA 3550B										
Matrix Spike Dup (B3G3113-MSD1)		Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 07/31/2023					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130	1.38	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	1.12	35	
Surrogate: o-Terphenyl	49		"	49.8		99.1	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G3116 - EPA 5030 (soil)

Blank (B3G3116-BLK1)

Prepared: 07/31/2023 Analyzed: 07/31/2023

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	95.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.1		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 - McKinstry 28N 21N 7C 2N 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 B3G3116 - EPA 5030 (soil)

LCS (B3G3116-BS1)

Prepared: 07/31/2023 Analyzed: 07/31/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg				70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"				70-130			
Benzene	0.0972	0.00200	"				70-130			
Ethylbenzene	0.0993	0.00200	"				70-130			
Naphthalene	0.104	0.00380	"				70-130			
Toluene	0.0925	0.00200	"				70-130			
o-Xylene	0.103	0.00200	"				70-130			
m,p-Xylene	0.199	0.00400	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3G3116 - EPA 5030 (soil)

Matrix Spike (B3G3116-MS1)	Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 07/31/2023						
1,2,4-Trimethylbenzene	0.0819	0.00200	mg/kg		ND		70-130			
1,3,5-Trimethylbenzene	0.0830	0.00200	"		ND		70-130			
Benzene	0.0898	0.00200	"		ND		70-130			
Ethylbenzene	0.0738	0.00200	"		ND		70-130			
Naphthalene	0.0998	0.00380	"		ND		70-130			
Toluene	0.0744	0.00200	"		ND		70-130			
o-Xylene	0.0720	0.00200	"		ND		70-130			
m,p-Xylene	0.159	0.00400	"		ND		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		126	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	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 - McKinstry 28N 21N 7C 2N 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 B3G3116 - EPA 5030 (soil)

Matrix Spike Dup (B3G3116-MSD1)	Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 07/31/2023						
1,2,4-Trimethylbenzene	0.0807	0.00200	mg/kg		ND		70-130	1.55	20	
1,3,5-Trimethylbenzene	0.0817	0.00200	"		ND		70-130	1.58	20	
Benzene	0.0891	0.00200	"		ND		70-130	0.872	20	
Ethylbenzene	0.0720	0.00200	"		ND		70-130	2.55	20	
Naphthalene	0.104	0.00380	"		ND		70-130	4.39	20	
Toluene	0.0747	0.00200	"		ND		70-130	0.402	20	
o-Xylene	0.0712	0.00200	"		ND		70-130	1.17	20	
m,p-Xylene	0.155	0.00400	"		ND		70-130	2.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		127	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	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 - McKinstry 28N 21N 7C 2N 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 B3G3112 - EPA 3050B

Blank (B3G3112-BLK1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

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 (B3G3112-BS1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

Arsenic	0.0514	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.15	0.0100	"	5.00		103	80-120			
Cadmium	0.0530	0.000100	"	0.0500		106	80-120			
Copper	0.538	0.0100	"	0.500		108	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0549	0.0100	"	0.0500		110	80-120			
Selenium	0.0502	0.000100	"	0.0500		100	80-120			
Silver	0.0524	0.000100	"	0.0500		105	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3G3112-MS1)

Source: Y307463-03

Prepared: 07/31/2023 Analyzed: 08/01/2023

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 - McKinstry 28N 21N 7C 2N 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 B3G3112 - EPA 3050B

Matrix Spike (B3G3112-MS1)		Source: Y307463-03			Prepared: 07/31/2023 Analyzed: 08/01/2023					
Arsenic	7.42	0.0944	mg/kg	4.72	2.43	106	75-125			
Barium	585	9.44	"	472	73.7	108	75-125			
Cadmium	5.36	0.0944	"	4.72	0.283	108	75-125			
Copper	68.9	9.44	"	47.2	15.4	113	75-125			
Lead	22.9	9.44	"	4.72	15.0	168	75-125			QM-07
Nickel	11.4	9.44	"	4.72	5.17	132	75-125			QM-07
Selenium	4.85	0.0944	"	4.72	0.232	97.8	75-125			
Silver	5.06	0.0944	"	4.72	0.185	103	75-125			
Zinc	110	94.4	"	47.2	53.3	119	75-125			

Matrix Spike Dup (B3G3112-MSD1)		Source: Y307463-03			Prepared: 07/31/2023 Analyzed: 08/01/2023					
Arsenic	7.75	0.0949	mg/kg	4.74	2.43	112	75-125	4.34	20	
Barium	599	9.49	"	474	73.7	111	75-125	2.37	20	
Cadmium	5.57	0.0949	"	4.74	0.283	111	75-125	3.71	20	
Copper	74.8	9.49	"	47.4	15.4	125	75-125	8.22	20	
Lead	30.1	9.49	"	4.74	15.0	319	75-125	27.3	20	QM-07
Nickel	12.0	9.49	"	4.74	5.17	144	75-125	4.88	20	QM-07
Selenium	4.84	0.0949	"	4.74	0.232	97.2	75-125	0.134	20	
Silver	5.19	0.0949	"	4.74	0.185	106	75-125	2.60	20	
Zinc	128	94.9	"	47.4	53.3	156	75-125	15.0	20	QM-07

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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G3117 - EPA 3580

Blank (B3G3117-BLK1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/ g	200	100	60-130
Surrogate: nthracene-d10	190		"	200	94.0	60-130
Surrogate: Benzo a pyrene-d12	210		"	200	104	60-130
Surrogate: yrene-d10	190		"	200	96.8	60-130

LCS (B3G3117-BS1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	97.8	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	97.9	70-130
Acenaphthene	0.180	0.020	"	0.200	90.1	70-130
Anthracene	0.154	0.020	"	0.200	76.8	70-130

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G3117 - EPA 3580

LCS (B3G3117-BS1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.7	70-130			
Benzo (a) pyrene	0.172	0.020	"	0.200		86.1	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (k) fluoranthene	0.192	0.020	"	0.200		95.8	70-130			
Chrysene	0.183	0.020	"	0.200		91.6	70-130			
Dibenz (a,h) anthracene	0.224	0.020	"	0.200		112	70-130			
Fluoranthene	0.181	0.020	"	0.200		90.7	70-130			
Fluorene	0.187	0.020	"	0.200		93.3	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		93.0	70-130			
Naphthalene	0.190	0.002	"	0.200		95.2	70-130			
Phenanthrene	0.168	0.020	"	0.200		84.2	70-130			
Pyrene	0.192	0.020	"	0.200		96.0	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		101	60-130			
Surrogate: nthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		102	60-130			
Surrogate: yrene-d10	200		"	200		98.5	60-130			

Matrix Spike (B3G3117-MS1)

Source: Y307675-01

Prepared: 07/31/2023 Analyzed: 08/01/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.7	70-130			
Acenaphthene	0.190	0.020	"	0.200	ND	95.2	70-130			
Anthracene	0.163	0.020	"	0.200	ND	81.5	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.200	ND	97.9	70-130			
Benzo (a) pyrene	0.169	0.020	"	0.200	0.002	83.5	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200	ND	99.8	70-130			
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	0.006	105	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G3117 - EPA 3580

Matrix Spike (B3G3117-MS1)		Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 08/01/2023					
Benzo (k) fluoranthene	0.199	0.020	mg/kg	0.200	ND	99.4	70-130			
Chrysene	0.190	0.020	"	0.200	ND	94.8	70-130			
Dibenz (a,h) anthracene	0.232	0.020	"	0.200	ND	116	70-130			
Fluoranthene	0.185	0.020	"	0.200	ND	92.5	70-130			
Fluorene	0.190	0.020	"	0.200	ND	94.8	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.2	70-130			
Naphthalene	0.195	0.002	"	0.200	ND	97.4	70-130			
Phenanthrene	0.177	0.020	"	0.200	ND	88.3	70-130			
Pyrene	0.207	0.020	"	0.200	ND	104	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		100	60-130			
Surrogate: nthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		102	60-130			
Surrogate: yrene-d10	200		"	200		102	60-130			

Matrix Spike Dup (B3G3117-MSD1)		Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 08/01/2023					
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	ND	102	70-130	0.778	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.9	70-130	0.258	20	
Acenaphthene	0.185	0.020	"	0.200	ND	92.3	70-130	3.14	20	
Anthracene	0.160	0.020	"	0.200	ND	80.1	70-130	1.74	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	ND	96.7	70-130	1.19	20	
Benzo (a) pyrene	0.196	0.020	"	0.200	0.002	97.2	70-130	15.0	20	
Benzo (b) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.19	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.006	96.3	70-130	8.00	20	
Benzo (k) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	2.43	20	
Chrysene	0.189	0.020	"	0.200	ND	94.7	70-130	0.0962	20	
Dibenz (a,h) anthracene	0.234	0.020	"	0.200	ND	117	70-130	0.945	20	
Fluoranthene	0.184	0.020	"	0.200	ND	91.8	70-130	0.748	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G3117 - EPA 3580

Matrix Spike Dup (B3G3117-MSD1)	Source: Y307675-01			Prepared: 07/31/2023 Analyzed: 08/01/2023						
Fluorene	0.192	0.020	mg/kg	0.200	ND	96.2	70-130	1.47	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	2.27	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.1	70-130	0.714	20	
Phenanthrene	0.178	0.020	"	0.200	ND	89.1	70-130	0.840	20	
Pyrene	0.211	0.020	"	0.200	ND	106	70-130	1.89	20	
Surrogate: Fluorene-d10	200		ug/ g	200		100	60-130			
Surrogate: nthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		102	60-130			
Surrogate: yrene-d10	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3H0105 - DTPA Sorbitol Preparation

Blank (B3H0105-BLK1)

Prepared: 08/01/2023 Analyzed: 08/02/2023

Boron ND 0.100 mg/L

Duplicate (B3H0105-DUP1)

Source: Y307675-01

Prepared: 08/01/2023 Analyzed: 08/02/2023

Boron 0.0474 0.0991 mg/L 0.0504 6.19 50

Batch B3H0108 - Saturated Paste Metals

Blank (B3H0108-BLK1)

Prepared: 08/01/2023 Analyzed: 08/02/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3H0108-DUP1)

Source: Y307675-01

Prepared: 08/01/2023 Analyzed: 08/02/2023

Calcium PPM 20.0 10.0 mg/L 22.8 13.2 50

SAR 0.00 SAR 1.38 200 200

Magnesium PPM 3.30 10.0 mg/L 3.24 1.83 50

Sodium PPM 9.84 10.0 " 8.42 15.6 50

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 - McKinstry 28N 21N 7C 2N 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 B3H0112 - Saturated Paste pH/EC

Blank (B3H0112-BLK1)

Prepared: 08/01/2023 Analyzed: 08/02/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0112-DUP1)

Source: Y307675-01

Prepared: 08/01/2023 Analyzed: 08/02/2023

Specific Conductance (EC)	0.206	0.00500	mmhos/cm		0.203			1.47	25	
pH	8.48		pH Units		8.47			0.118	25	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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.



August 24, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. August 17, 2023. This project is associated with Origins project number Y308447-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B13@4'	Y308447-01	Soil	August 17, 2023 11:30	08/17/2023 14:40
SEP-B14@4'	Y308447-02	Soil	August 17, 2023 11:32	08/17/2023 14:40
SEP-B15@4'	Y308447-03	Soil	August 17, 2023 11:34	08/17/2023 14:40
SEP-B16@4'	Y308447-04	Soil	August 17, 2023 11:36	08/17/2023 14:40

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y308447

Client: Eagle

Client Project ID: McKinstry 28N 21N

Checklist Completed by: EHS

Shipped Via: HO 7C 2N

Date/time completed: 8/17/23

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

Airbill #: N/A

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

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

Thermometer ID: T004

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

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

Em Lintner
 Reviewed by (Project Manager)

8/17/23
 Date/Time Reviewed

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B13@4'
8/17/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.780	0.0991	mg/L	1	B3H1808		08/18/2023	08/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1725		08/17/2023	08/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	92.3 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1736	H S	08/17/2023	08/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Benzene	ND	0.00200	"	"	"	H S	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Toluene	ND	0.00200	"	"	"	H S	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H S	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H S	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"		"	"	
Surrogate: Toluene-d8	105 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B13@4'
 8/17/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308447-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.35	0.499	meq/L	10	[CALC]		08/18/2023	08/21/2023	
Magnesium	4.81	0.823	"	"	"		"	"	
Sodium	4.89	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1734	do	08/17/2023	08/19/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	
Surrogate: nthalene-d10	98.6 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	97.0 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B13@4'
8/17/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-01 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	95.8 %	60-130			3 1 3	08/1 /2023	08/19/2023
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SAR by 20B Saturated Paste

SAR	2.07		SAR	1	B3H1812		08/18/2023	08/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.67	0.00500	mmhos/cm	1	B3H1817	C	08/18/2023	08/19/2023
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Table 915 metals by EPA 6020B

Arsenic	5.05	0.0850	mg/kg	10	B3H1741	C H	08/17/2023	08/21/2023
Barium	140	8.50	"	"	"	C H	"	"
Selenium	0.135	0.0850	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B14@4'
8/17/2023 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.679	0.101	mg/L	1	B3H1808		08/18/2023	08/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1725		08/17/2023	08/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	91.2 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1736	H S	08/17/2023	08/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Benzene	ND	0.00200	"	"	"	H S	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Toluene	ND	0.00200	"	"	"	H S	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H S	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H S	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"		"	"	
Surrogate: Toluene-d8	101 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B14@4'
 8/17/2023 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308447-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.36	0.499	meq/L	10	[CALC]		08/18/2023	08/21/2023	
Magnesium	4.13	0.823	"	"	"		"	"	
Sodium	3.33	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1734	do	08/17/2023	08/19/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	100 %	60-130		"	"	"		
Surrogate: nthalene-d10	95.7 %	60-130		"	"	"		
Surrogate: Benzo a pyrene-d12	93.6 %	60-130		"	"	"		

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B14@4'

8/17/2023 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-02 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	95.6 %	60-130			3 1 3		08/1 /2023	08/19/2023	
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SAR by 20B Saturated Paste

SAR	1.53		SAR	1	B3H1812		08/18/2023	08/21/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1	B3H1817	C	08/18/2023	08/19/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.93	0.0870	mg/kg	10	B3H1741	C H	08/17/2023	08/21/2023	
Barium	148	8.70	"	"	"	C H	"	"	
Selenium	0.152	0.0870	"	"	"	C H	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B15@4'
8/17/2023 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.767	0.101	mg/L	1	B3H1808		08/18/2023	08/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1725		08/17/2023	08/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	94.5 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1736	H S	08/17/2023	08/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Benzene	ND	0.00200	"	"	"	H S	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Toluene	ND	0.00200	"	"	"	H S	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H S	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H S	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"		"	"	
Surrogate: Toluene-d8	102 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B15@4'
 8/17/2023 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308447-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.54	0.499	meq/L	10	[CALC]		08/18/2023	08/21/2023	
Magnesium	4.22	0.823	"	"	"		"	"	
Sodium	3.10	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1734	do	08/17/2023	08/22/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	
Surrogate: nthracene-d10	101 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	103 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B15@4'
 8/17/2023 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308447-03 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	92.0 %	60-130			3 1 3	08/1 /2023	08/22/2023
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SAR by 20B Saturated Paste

SAR	1.34		SAR	1	B3H1812		08/18/2023	08/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.31	0.00500	mmhos/cm	1	B3H1817	C	08/18/2023	08/19/2023
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Table 915 metals by EPA 6020B

Arsenic	4.22	0.0916	mg/kg	10	B3H1741	C H	08/17/2023	08/21/2023
Barium	117	9.16	"	"	"	C H	"	"
Selenium	0.123	0.0916	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B16@4'
8/17/2023 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.22	0.100	mg/L	1	B3H1808		08/18/2023	08/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1725		08/17/2023	08/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	93.6 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1736	H S	08/17/2023	08/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Benzene	ND	0.00200	"	"	"	H S	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H S	"	"	U
Toluene	ND	0.00200	"	"	"	H S	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H S	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H S	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B16@4'
 8/17/2023 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308447-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.99	0.499	meq/L	10	[CALC]		08/18/2023	08/21/2023	
Magnesium	8.32	0.823	"	"	"		"	"	
Sodium	3.93	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1734	do	08/17/2023	08/19/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	
Surrogate: nthalene-d10	101 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	99.2 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B16@4'
8/17/2023 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308447-04 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	93.4 %	60-130			3 1 3		08/1 /2023	08/19/2023	
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SAR by 20B Saturated Paste

SAR	1.34		SAR	1	B3H1812		08/18/2023	08/21/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.87	0.00500	mmhos/cm	1	B3H1817	C	08/18/2023	08/19/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.40	0.0901	mg/kg	10	B3H1741	C H	08/17/2023	08/21/2023	
Barium	145	9.01	"	"	"	C H	"	"	
Selenium	0.160	0.0901	"	"	"	C H	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3H1725 - EPA 3550B										
Blank (B3H1725-BLK1)										
					Prepared: 08/17/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.6	50-150			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3H1725 - EPA 3550B										
LCS (B3H1725-BS1)					Prepared: 08/17/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	902	50.0	mg/kg	1000		90.2	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000		89.5	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3H1725 - EPA 3550B

Matrix Spike (B3H1725-MS1)	Source: Y308444-01			Prepared: 08/17/2023 Analyzed: 08/17/2023						
Diesel (C10-C28)	946	50.0	mg/kg	1000	49.6	89.7	70-130			
Residual Range Organics (C28-C40)	925	200	"	1000	ND	92.5	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3H1725 - EPA 3550B										
Matrix Spike Dup (B3H1725-MSD1)		Source: Y308444-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	925	50.0	mg/kg	1000	49.6	87.5	70-130	2.28	35	
Residual Range Organics (C28-C40)	895	200	"	1000	ND	89.5	70-130	3.32	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3H1736 - EPA 5030 (soil)

Blank (B3H1736-BLK1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

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	107		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3H1736 - EPA 5030 (soil)

LCS (B3H1736-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1,2,4-Trimethylbenzene	0.0995	0.00200	mg/kg	0.100		99.5	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0992	0.00200	"	0.100		99.2	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100		97.8	70-130			
Naphthalene	0.0983	0.00380	"	0.100		98.3	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.0970	0.00200	"	0.100		97.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.0	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3H1736 - EPA 5030 (soil)										
Matrix Spike (B3H1736-MS1)			Source: Y308444-01			Prepared: 08/17/2023 Analyzed: 08/17/2023				
1,2,4-Trimethylbenzene	0.0680	0.00200	mg/kg	0.100	ND	68.0	70-130			QM-07
1,3,5-Trimethylbenzene	0.0706	0.00200	"	0.100	ND	70.6	70-130			
Benzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Ethylbenzene	0.0748	0.00200	"	0.100	ND	74.8	70-130			
Naphthalene	0.0769	0.00380	"	0.100	ND	76.9	70-130			
Toluene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
o-Xylene	0.0670	0.00200	"	0.100	ND	67.0	70-130			QM-07
m,p-Xylene	0.140	0.00400	"	0.200	ND	70.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Dan Coloccia
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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 B3H1736 - EPA 5030 (soil)

Matrix Spike Dup (B3H1736-MSD1)	Source: Y308444-01			Prepared: 08/17/2023 Analyzed: 08/17/2023						
1,2,4-Trimethylbenzene	0.0669	0.00200	mg/kg	0.100	ND	66.9	70-130	1.72	20	QM-07
1,3,5-Trimethylbenzene	0.0688	0.00200	"	0.100	ND	68.8	70-130	2.50	20	QM-07
Benzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	2.13	20	
Ethylbenzene	0.0726	0.00200	"	0.100	ND	72.6	70-130	2.96	20	
Naphthalene	0.0787	0.00380	"	0.100	ND	78.7	70-130	2.34	20	
Toluene	0.0818	0.00200	"	0.100	ND	81.8	70-130	3.25	20	
o-Xylene	0.0649	0.00200	"	0.100	ND	64.9	70-130	3.12	20	QM-07
m,p-Xylene	0.135	0.00400	"	0.200	ND	67.6	70-130	3.36	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	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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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 B3H1741 - EPA 3050B

Blank (B3H1741-BLK1)

Prepared: 08/17/2023 Analyzed: 08/21/2023

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 (B3H1741-BS1)

Prepared: 08/17/2023 Analyzed: 08/21/2023

Arsenic	0.0493	0.000100	mg/kg	0.0500		98.5	80-120			
Barium	5.09	0.0100	"	5.00		102	80-120			
Cadmium	0.0513	0.000100	"	0.0500		103	80-120			
Copper	0.502	0.0100	"	0.500		100	80-120			
Lead	0.0480	0.0100	"	0.0500		96.0	80-120			
Nickel	0.0479	0.0100	"	0.0500		95.8	80-120			
Selenium	0.0457	0.000100	"	0.0500		91.4	80-120			
Silver	0.0544	0.000100	"	0.0500		109	80-120			
Zinc	0.458	0.100	"	0.500		91.7	80-120			

Matrix Spike (B3H1741-MS1)

Source: Y308267-01

Prepared: 08/17/2023 Analyzed: 08/21/2023

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3H1741 - EPA 3050B

Matrix Spike (B3H1741-MS1)		Source: Y308267-01			Prepared: 08/17/2023 Analyzed: 08/21/2023					
Arsenic	8.15	0.0955	mg/kg	4.77	2.70	114	75-125			
Barium	671	9.55	"	477	86.6	122	75-125			
Cadmium	4.96	0.0955	"	4.77	0.103	102	75-125			
Copper	47.9	9.55	"	47.7	14.3	70.4	75-125			QM-07
Lead	17.2	9.55	"	4.77	10.7	138	75-125			QM-07
Nickel	14.1	9.55	"	4.77	8.07	127	75-125			QM-07
Selenium	3.78	0.0955	"	4.77	0.0720	77.7	75-125			
Silver	4.91	0.0955	"	4.77	0.0585	102	75-125			
Zinc	80.3	95.5	"	47.7	35.1	94.8	75-125			

Matrix Spike Dup (B3H1741-MSD1)		Source: Y308267-01			Prepared: 08/17/2023 Analyzed: 08/21/2023					
Arsenic	7.69	0.0946	mg/kg	4.73	2.70	105	75-125	5.83	20	
Barium	673	9.46	"	473	86.6	124	75-125	0.408	20	
Cadmium	4.88	0.0946	"	4.73	0.103	101	75-125	1.51	20	
Copper	46.5	9.46	"	47.3	14.3	68.0	75-125	3.08	20	QM-07
Lead	16.3	9.46	"	4.73	10.7	120	75-125	5.27	20	
Nickel	13.6	9.46	"	4.73	8.07	118	75-125	3.40	20	
Selenium	3.68	0.0946	"	4.73	0.0720	76.2	75-125	2.82	20	
Silver	4.96	0.0946	"	4.73	0.0585	104	75-125	0.976	20	
Zinc	75.1	94.6	"	47.3	35.1	84.6	75-125	6.72	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1734 - EPA 3580

Blank (B3H1734-BLK1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/ g	200	102	60-130				
Surrogate: nthracene-d10	190		"	200	94.3	60-130				
Surrogate: Benzo a pyrene-d12	190		"	200	96.4	60-130				
Surrogate: yrene-d10	200		"	200	102	60-130				

LCS (B3H1734-BS1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	104	70-130				
2-Methylnaphthalene	0.206	0.002	"	0.200	103	70-130				
Acenaphthene	0.209	0.020	"	0.200	105	70-130				
Anthracene	0.186	0.020	"	0.200	93.2	70-130				

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1734 - EPA 3580

LCS (B3H1734-BS1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

Benzo (a) anthracene	0.200	0.005	mg/kg	0.200		100	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.7	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.4	70-130			
Benzo (k) fluoranthene	0.212	0.020	"	0.200		106	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		93.2	70-130			
Fluoranthene	0.190	0.020	"	0.200		95.1	70-130			
Fluorene	0.205	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.6	70-130			
Naphthalene	0.208	0.002	"	0.200		104	70-130			
Phenanthrene	0.196	0.020	"	0.200		97.8	70-130			
Pyrene	0.220	0.020	"	0.200		110	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		102	60-130			
Surrogate: nthracene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		100	60-130			
Surrogate: yrene-d10	210		"	200		103	60-130			

Matrix Spike (B3H1734-MS1)

Source: Y308446-21

Prepared: 08/17/2023 Analyzed: 08/18/2023

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.203	0.020	"	0.200	ND	102	70-130			
Anthracene	0.183	0.020	"	0.200	ND	91.7	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.8	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200	0.001	98.5	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200	ND	101	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	0.0006	99.1	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1734 - EPA 3580

Matrix Spike (B3H1734-MS1)		Source: Y308446-21			Prepared: 08/17/2023 Analyzed: 08/18/2023					
Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	ND	99.8	70-130			
Chrysene	0.204	0.020	"	0.200	0.0009	101	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.4	70-130			
Fluoranthene	0.194	0.020	"	0.200	ND	96.9	70-130			
Fluorene	0.205	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.3	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.195	0.020	"	0.200	ND	97.5	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		101	60-130			
Surrogate: nthracene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		101	60-130			
Surrogate: yrene-d10	190		"	200		93.4	60-130			

Matrix Spike Dup (B3H1734-MSD1)		Source: Y308446-21			Prepared: 08/17/2023 Analyzed: 08/18/2023					
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.5	70-130	7.14	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.3	70-130	6.71	20	
Acenaphthene	0.189	0.020	"	0.200	ND	94.4	70-130	7.44	20	
Anthracene	0.174	0.020	"	0.200	ND	86.8	70-130	5.54	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.001	84.7	70-130	10.2	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	0.001	92.4	70-130	6.35	20	
Benzo (b) fluoranthene	0.187	0.020	"	0.200	ND	93.7	70-130	7.77	20	
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.0006	91.0	70-130	8.52	20	
Benzo (k) fluoranthene	0.172	0.020	"	0.200	ND	85.9	70-130	14.9	20	
Chrysene	0.188	0.020	"	0.200	0.0009	93.3	70-130	8.31	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	4.72	20	
Fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130	8.29	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1734 - EPA 3580

Matrix Spike Dup (B3H1734-MSD1)	Source: Y308446-21			Prepared: 08/17/2023 Analyzed: 08/18/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.5	70-130	6.97	20	
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	94.9	70-130	1.50	20	
Naphthalene	0.192	0.002	"	0.200	ND	96.1	70-130	7.25	20	
Phenanthrene	0.181	0.020	"	0.200	ND	90.7	70-130	7.22	20	
Pyrene	0.187	0.020	"	0.200	ND	93.4	70-130	5.98	20	
Surrogate: Fluorene-d10	200		ug/ g	200		102	60-130			
Surrogate: nthracene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		102	60-130			
Surrogate: yrene-d10	190		"	200		93.8	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3H1808 - DTPA Sorbitol Preparation										
Blank (B3H1808-BLK1)					Prepared: 08/18/2023 Analyzed: 08/21/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3H1808-DUP1)		Source: Y308445-11			Prepared: 08/18/2023 Analyzed: 08/21/2023					
Boron	0.469	0.102	mg/L		0.482			2.70	50	
Batch B3H1812 - Saturated Paste Metals										
Blank (B3H1812-BLK1)					Prepared: 08/18/2023 Analyzed: 08/21/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3H1812-DUP1)		Source: Y308445-11			Prepared: 08/18/2023 Analyzed: 08/21/2023					
Calcium PPM	396	10.0	mg/L		427			7.38	50	
SAR	0.00		SAR		6.20			200	200	
Magnesium PPM	146	10.0	mg/L		157			6.96	50	
Sodium PPM	578	10.0	"		589			1.88	50	

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1817 - Saturated Paste pH/EC										
Blank (B3H1817-BLK1)					Prepared: 08/18/2023 Analyzed: 08/19/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1817-DUP1)		Source: Y308445-11			Prepared: 08/18/2023 Analyzed: 08/19/2023					
Specific Conductance (EC)	5.01	0.00500	mmhos/cm		4.86			2.95	25	

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Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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.

Jordan A. Bynon, Project Manager

September 12, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. September 01, 2023. This project is associated with Origins project number Y309020-01.

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

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

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

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

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

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



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B18@13'	Y309020-01	Soil	September 1, 2023 10:59	09/01/2023 16:40
SEP-B17@10'	Y309020-02	Soil	September 1, 2023 10:31	09/01/2023 16:40
SEP-S02@3'	Y309020-03	Soil	September 1, 2023 10:40	09/01/2023 16:40
SEP-S02@9'	Y309020-04	Soil	September 1, 2023 10:42	09/01/2023 16:40
SEP-S03@3'	Y309020-05	Soil	September 1, 2023 10:43	09/01/2023 16:40
SEP-S03@9'	Y309020-06	Soil	September 1, 2023 10:45	09/01/2023 16:40
SEP-S04@3'	Y309020-07	Soil	September 1, 2023 10:46	09/01/2023 16:40
SEP-S04@9'	Y309020-08	Soil	September 1, 2023 10:47	09/01/2023 16:40
SEP-E03@3'	Y309020-09	Soil	September 1, 2023 10:49	09/01/2023 16:40
SEP-E03@9'	Y309020-10	Soil	September 1, 2023 10:50	09/01/2023 16:40
SEP-W03@3'	Y309020-11	Soil	September 1, 2023 10:51	09/01/2023 16:40
SEP-W03@9'	Y309020-12	Soil	September 1, 2023 10:52	09/01/2023 16:40

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 - McKinstry 28N 21N 7C 2N OSA

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

ORIGINS
 LABORATORY, INC

45090202
 Impacted

www.originslaboratory.com

page 1 of 2

Client: Eagle Environmental (OSY)
 Address: 8000 W 44th Ave.
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0879
 Email Address: dcoloccia@eagle-enviro.com
 Project Manager: D. Coloccia
 Project Name: McKinstry 28N 21N 7C 2N OSA
 Project Number:
 Samples Collected By: Am

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃			
SEP-EB @ 13'	9/11/23	1059	3	X			Soil	*PAHs EXCEPT 1 BTEX, N TPH, Pb boron SAR/EC *PAHs arsenic barium selenium	
SEP-B17 @ 10'		1031							
SEP-S02 @ 3'		1040							benzofluorene, benzofluorene,
SEP-S02 @ 9'		1042							
SEP-S03 @ 3'		1043							
SEP-S03 @ 9'		1045							
SEP-S04 @ 3'		1046							
SEP-S04 @ 9'		1047							
SEP-ED3 @ 3'		1049							
SEP-ED3 @ 9'		1050							
Relinquished By: <u>Am</u>	Date: <u>9/11/23</u>	Time: <u>1040</u>	Received By: <u> </u>	Date: <u>9/11/23</u>	Time: <u>1040</u>	Turnaround Time: <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard			

Temp Received: 4.5 Date Results Needed

Origins Laboratory, Inc.

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4309020

Client: Eagle

Client Project ID: McKinstry 28N 21N 7C 2

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 9/11/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 1145 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]
 Reviewed by (Project Manager)

9/11/23
 Date/Time Reviewed

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B18@13'
9/1/2023 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.25	0.100	mg/L	1	B3I0512		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: <i>o</i> -Terphenyl	98.1 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	0.0241	0.00200	"	"	"	SM	"	"	
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"		"	"	
Surrogate: Toluene-d8	105 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B18@13'
 9/1/2023 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	21.2	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	24.1	0.823	"	"	"		"	"	
Sodium	6.47	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	94.8 %	60-130			"	"	"	
Surrogate: nthalene-d10	95.2 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	112 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B18@13'
9/1/2023 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-01 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	99.5 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	1.36	0.0100	SAR	1	B3I0201		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.31	0.00500	mmhos/cm	1	B3I0204	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.49	0.0856	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	83.2	8.56	"	"	"	DM	"	"	
Selenium	0.152	0.0856	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B17@10'
9/1/2023 10:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.43	0.0991	mg/L	1	B3I0512		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	91.0 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-B17@10'
 9/1/2023 10:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	14.3	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	17.1	0.823	"	"	"		"	"	
Sodium	2.37	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	95.8 %	60-130			"	"	"	
Surrogate: nthalene-d10	111 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	109 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B17@10'
9/1/2023 10:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-02 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 108 % 60-130 3 013 0 /01/2023 09/02/2023

SAR by 20B Saturated Paste

SAR 0.598 0.0100 SAR 1 B3I0202 09/02/2023 09/05/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 3.13 0.00500 mmhos/cm 1 B3I0205 C 09/02/2023 09/03/2023

Table 915 metals by EPA 6020B

Arsenic	4.57	0.0936	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023
Barium	164	9.36	"	"	"	DM	"	"
Selenium	0.165	0.0936	"	"	"	DM	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S02@3'
9/1/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.718	0.0991	mg/L	1	B3I0512		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"		"	"	
Surrogate: Toluene-d8	103 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"		"	"	

Metals by Saturated Paste by EPA 6010

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S02@3'
 9/1/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.28	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	1.15	0.823	"	"	"		"	"	
Sodium	2.35	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	95.5 %	60-130			"	"	"	"	
Surrogate: nthalene-d10	112 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	128 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S02@3'
9/1/2023 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-03 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	108 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	1.79	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.661	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.27	0.0925	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	141	9.25	"	"	"	DM	"	"	
Selenium	0.245	0.0925	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S02@9'
 9/1/2023 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-04 (Soil)

Boron (DTPA Sorbitol)

Boron	2.04	0.101	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	87.9 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-S02@9'
 9/1/2023 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	9.16	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	11.2	0.823	"	"	"		"	"	
Sodium	2.18	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	95.9 %	60-130			"	"	"	
Surrogate: nthalene-d10	87.6 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	112 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S02@9'
 9/1/2023 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-04 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	112 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	0.684	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.05	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.17	0.0856	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	148	8.56	"	"	"	DM	"	"	
Selenium	0.190	0.0856	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S03@3'
 9/1/2023 10:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.906	0.0981	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	98.0 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"		"	"	
Surrogate: Toluene-d8	105 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-S03@3'
 9/1/2023 10:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.65	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	1.31	0.823	"	"	"		"	"	
Sodium	2.90	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	93.3 %	60-130			"	"	"	
Surrogate: nthalene-d10	83.9 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	89.1 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S03@3'
9/1/2023 10:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-05 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	103 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	2.06	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.867	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.46	0.0881	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	144	8.81	"	"	"	DM	"	"	
Selenium	0.259	0.0881	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S03@9'
 9/1/2023 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.21	0.100	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	97.6 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"		"	"	
Surrogate: Toluene-d8	103 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-S03@9'
 9/1/2023 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.87	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	11.0	0.823	"	"	"		"	"	
Sodium	1.79	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	93.8 %	60-130			"	"	"	
Surrogate: nthalene-d10	108 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	106 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S03@9'
 9/1/2023 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-06 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	107 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	0.568	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.13	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.34	0.0960	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	118	9.60	"	"	"	DM	"	"	
Selenium	0.107	0.0960	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S04@3'
 9/1/2023 10:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.873	0.0982	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	101 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"		"	"	

Metals by Saturated Paste by EPA 6010

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S04@3'
 9/1/2023 10:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.85	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	1.47	0.823	"	"	"		"	"	
Sodium	2.19	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	95.7 %	60-130			"	"	"	
Surrogate: nthalene-d10	92.7 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	83.5 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S04@3'
9/1/2023 10:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-07 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	117 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	1.49	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.761	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.23	0.0913	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	152	9.13	"	"	"	DM	"	"	
Selenium	0.309	0.0913	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-S04@9'
 9/1/2023 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-08 (Soil)

Boron (DTPA Sorbitol)

Boron	2.65	0.0981	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	92.8 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-S04@9'
 9/1/2023 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.63	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	7.81	0.823	"	"	"		"	"	
Sodium	2.08	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	93.1 %	60-130			"	"	"	
Surrogate: nthracene-d10	103 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	81.6 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-S04@9'
9/1/2023 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-08 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	109 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	0.802	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.80	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.55	0.0898	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	102	8.98	"	"	"	DM	"	"	
Selenium	0.199	0.0898	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-E03@3'
 9/1/2023 10:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.73	0.0986	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	88.7 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"		"	"	
Surrogate: Toluene-d8	102 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-E03@3'
 9/1/2023 10:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.730	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	4.87	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	93.8 %	60-130			"	"	"	
Surrogate: nthracene-d10	113 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	86.5 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-E03@3'
 9/1/2023 10:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-09 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 109 % 60-130 3 013 0 /01/2023 09/02/2023

SAR by 20B Saturated Paste

SAR 6.19 0.0100 SAR 1 B3I0202 09/02/2023 09/05/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.878 0.00500 mmhos/cm 1 B3I0205 C 09/02/2023 09/03/2023

Table 915 metals by EPA 6020B

Arsenic	4.34	0.0884	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023
Barium	131	8.84	"	"	"	DM	"	"
Selenium	0.174	0.0884	"	"	"	DM	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-E03@9'
 9/1/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309020-10 (Soil)

Boron (DTPA Sorbitol)

Boron	3.68	0.0994	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	90.6 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"		"	"	
Surrogate: Toluene-d8	104 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-E03@9'
 9/1/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.45	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	4.85	0.823	"	"	"		"	"	
Sodium	37.9	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	93.4 %	60-130			"	"	"	
Surrogate: nthalene-d10	106 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	110 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-E03@9'
 9/1/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-10 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	107 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	15.9	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.70	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.13	0.0929	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	149	9.29	"	"	"	DM	"	"	
Selenium	0.123	0.0929	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-W03@3'
 9/1/2023 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-11 (Soil)

Boron (DTPA Sorbitol)

Boron	1.08	0.0993	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	98.3 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"		"	"	
Surrogate: Toluene-d8	106 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-W03@3'
 9/1/2023 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-11 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.51	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	2.40	0.823	"	"	"		"	"	
Sodium	2.48	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	94.9 %	60-130			"	"		"	
Surrogate: nthalene-d10	112 %	60-130			"	"		"	
Surrogate: Benzo a pyrene-d12	98.8 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-W03@3'
 9/1/2023 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-11 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	104 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	1.44	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.924	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.09	0.0849	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	148	8.49	"	"	"	DM	"	"	
Selenium	0.238	0.0849	"	"	"	DM	"	"	

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 - McKinstry 28N 21N 7C 2N OSA

SEP-W03@9'
 9/1/2023 10:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-12 (Soil)

Boron (DTPA Sorbitol)

Boron	2.57	0.0993	mg/L	1	B3I0513		09/05/2023	09/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0138		09/01/2023	09/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	95.9 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I0137	SM	09/01/2023	09/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"		"	"	
Surrogate: Toluene-d8	106 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"		"	"	

Metals by Saturated Paste by EPA 6010

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-W03@9'
 9/1/2023 10:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-12 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	19.4	0.499	meq/L	10	[CALC]		09/02/2023	09/05/2023	
Magnesium	25.6	0.823	"	"	"		"	"	
Sodium	7.61	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I0139	do	09/01/2023	09/02/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	95.6 %	60-130			"	"	"	
Surrogate: nthracene-d10	115 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	113 %	60-130			"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-W03@9'
 9/1/2023 10:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309020-12 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	99.0 %	60-130			3 013	0	01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	1.60	0.0100	SAR	1	B3I0202		09/02/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.75	0.00500	mmhos/cm	1	B3I0205	C	09/02/2023	09/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.72	0.0938	mg/kg	10	B3I0523	DM	09/05/2023	09/06/2023	
Barium	169	9.38	"	"	"	DM	"	"	
Selenium	0.218	0.0938	"	"	"	DM	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310137 - EPA 5030 (soil)

Blank (B310137-BLK1)

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

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	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.1		70-130			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310137 - EPA 5030 (soil)

LCS (B310137-BS1)

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

1,2,4-Trimethylbenzene	0.0967	0.00200	mg/kg	0.100		96.7	70-130			
1,3,5-Trimethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Benzene	0.0945	0.00200	"	0.100		94.5	70-130			
Ethylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Naphthalene	0.0968	0.00380	"	0.100		96.8	70-130			
Toluene	0.0964	0.00200	"	0.100		96.4	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0137 - EPA 5030 (soil)

Matrix Spike (B3I0137-MS1)	Source: Y309020-01			Prepared: 09/01/2023 Analyzed: 09/01/2023						
1,2,4-Trimethylbenzene	0.0922	0.00200	mg/kg	0.100	ND	92.2	70-130			
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
Benzene	0.135	0.00200	"	0.100	0.0241	111	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
Naphthalene	0.0944	0.00380	"	0.100	ND	94.4	70-130			
Toluene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0137 - EPA 5030 (soil)

Matrix Spike Dup (B3I0137-MSD1)	Source: Y309020-01			Prepared: 09/01/2023 Analyzed: 09/01/2023						
1,2,4-Trimethylbenzene	0.0911	0.00200	mg/kg	0.100	ND	91.1	70-130	1.16	20	
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	1.61	20	
Benzene	0.121	0.00200	"	0.100	0.0241	96.8	70-130	10.8	20	
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	2.63	20	
Naphthalene	0.0958	0.00380	"	0.100	ND	95.8	70-130	1.49	20	
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130	4.42	20	
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130	0.735	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.6	70-130	2.74	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B310138 - EPA 3550B										
Blank (B310138-BLK1)										
					Prepared: 09/01/2023 Analyzed: 09/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310138 - EPA 3550B

LCS (B310138-BS1)

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

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	50-150			

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Eagle Environmental Consulting, LLC
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0138 - EPA 3550B

Matrix Spike (B3I0138-MS1)	Source: Y309020-01			Prepared: 09/01/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3I0138 - EPA 3550B										
Matrix Spike Dup (B3I0138-MSD1)		Source: Y309020-01			Prepared: 09/01/2023 Analyzed: 09/01/2023					
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130	24.4	35	
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130	23.4	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0523 - EPA 3050B

Blank (B3I0523-BLK1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

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 (B3I0523-BS1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

Arsenic	3.84	0.00890	mg/kg	4.45		86.4	80-120			
Barium	450	0.890	"	445		101	80-120			
Cadmium	4.59	0.00890	"	4.45		103	80-120			
Copper	40.7	0.890	"	44.5		91.5	80-120			
Lead	4.59	0.890	"	4.45		103	80-120			
Nickel	4.05	0.890	"	4.45		91.1	80-120			
Selenium	4.60	0.00890	"	4.45		103	80-120			
Silver	4.62	0.00890	"	4.45		104	80-120			
Zinc	38.0	8.90	"	44.5		85.4	80-120			

Matrix Spike (B3I0523-MS1)

Source: Y309019-01

Prepared: 09/05/2023 Analyzed: 09/06/2023

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0523 - EPA 3050B

Matrix Spike (B3I0523-MS1)		Source: Y309019-01			Prepared: 09/05/2023 Analyzed: 09/06/2023					
Arsenic	5.55	0.0988	mg/kg	4.94	1.08	90.5	75-125			
Barium	545	9.88	"	494	44.8	101	75-125			
Cadmium	5.13	0.0988	"	4.94	0.0358	103	75-125			
Copper	48.0	9.88	"	49.4	0.925	95.3	75-125			
Lead	8.93	9.88	"	4.94	3.44	111	75-125			
Nickel	7.23	9.88	"	4.94	2.70	91.7	75-125			
Selenium	4.87	0.0988	"	4.94	ND	98.5	75-125			
Silver	5.10	0.0988	"	4.94	0.0145	103	75-125			
Zinc	56.0	98.8	"	49.4	12.5	87.9	75-125			
Matrix Spike Dup (B3I0523-MSD1)		Source: Y309019-01			Prepared: 09/05/2023 Analyzed: 09/06/2023					
Arsenic	5.18	0.0903	mg/kg	4.51	1.08	90.9	75-125	6.91	20	
Barium	512	9.03	"	451	44.8	103	75-125	6.33	20	
Cadmium	4.72	0.0903	"	4.51	0.0358	104	75-125	8.33	20	
Copper	44.2	9.03	"	45.1	0.925	96.0	75-125	8.25	20	
Lead	7.82	9.03	"	4.51	3.44	97.1	75-125	13.2	20	
Nickel	7.00	9.03	"	4.51	2.70	95.2	75-125	3.32	20	
Selenium	4.67	0.0903	"	4.51	ND	103	75-125	4.19	20	
Silver	4.70	0.0903	"	4.51	0.0145	104	75-125	8.09	20	
Zinc	56.6	90.3	"	45.1	12.5	97.6	75-125	1.09	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310139 - EPA 3580

Blank (B310139-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	190		ug/ g	200		95.9	60-130
Surrogate: nthracene-d10	210		"	200		106	60-130
Surrogate: Benzo a pyrene-d12	230		"	200		116	60-130
Surrogate: yrene-d10	190		"	200		94.3	60-130

LCS (B310139-BS1)

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

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200		109	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200		94.5	70-130
Acenaphthene	0.204	0.020	"	0.200		102	70-130
Anthracene	0.179	0.020	"	0.200		89.6	70-130

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0139 - EPA 3580

LCS (B3I0139-BS1)

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

Benzo (a) anthracene	0.177	0.005	mg/kg	0.200		88.6	70-130			
Benzo (a) pyrene	0.169	0.020	"	0.200		84.6	70-130			
Benzo (b) fluoranthene	0.150	0.020	"	0.200		75.1	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		88.8	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.4	70-130			
Chrysene	0.199	0.020	"	0.200		99.4	70-130			
Dibenz (a,h) anthracene	0.171	0.020	"	0.200		85.6	70-130			
Fluoranthene	0.180	0.020	"	0.200		90.0	70-130			
Fluorene	0.186	0.020	"	0.200		93.1	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200		106	70-130			
Naphthalene	0.203	0.002	"	0.200		101	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.6	70-130			
Pyrene	0.178	0.020	"	0.200		89.2	70-130			
Surrogate: Fluorene-d10	190		ug/ g	200		94.8	60-130			
Surrogate: nthracene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo a pyrene-d12	180		"	200		89.5	60-130			
Surrogate: yrene-d10	180		"	200		88.6	60-130			

Matrix Spike (B3I0139-MS1)

Source: Y309019-01

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

1-Methylnaphthalene	0.220	0.002	mg/kg	0.200	ND	110	70-130			
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	92.8	70-130			
Acenaphthene	0.195	0.020	"	0.200	0.004	95.5	70-130			
Anthracene	0.198	0.020	"	0.200	0.003	97.5	70-130			
Benzo (a) anthracene	0.154	0.005	"	0.200	0.006	74.1	70-130			
Benzo (a) pyrene	0.174	0.020	"	0.200	ND	87.2	70-130			
Benzo (b) fluoranthene	0.144	0.020	"	0.200	ND	72.2	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	ND	85.9	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0139 - EPA 3580

Matrix Spike (B3I0139-MS1)		Source: Y309019-01			Prepared: 09/01/2023 Analyzed: 09/01/2023					
Benzo (k) fluoranthene	0.187	0.020	mg/kg	0.200	ND	93.4	70-130			
Chrysene	0.202	0.020	"	0.200	ND	101	70-130			
Dibenz (a,h) anthracene	0.169	0.020	"	0.200	ND	84.7	70-130			
Fluoranthene	0.177	0.020	"	0.200	ND	88.7	70-130			
Fluorene	0.188	0.020	"	0.200	ND	94.0	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	99.1	70-130			
Phenanthrene	0.181	0.020	"	0.200	ND	90.4	70-130			
Pyrene	0.189	0.020	"	0.200	ND	94.3	70-130			
Surrogate: Fluorene-d10	190		ug/ g	200		96.9	60-130			
Surrogate: nthracene-d10	200		"	200		102	60-130			
Surrogate: Benzo a pyrene-d12	180		"	200		91.7	60-130			
Surrogate: yrene-d10	190		"	200		94.0	60-130			

Matrix Spike Dup (B3I0139-MSD1)		Source: Y309019-01			Prepared: 09/01/2023 Analyzed: 09/01/2023					
1-Methylnaphthalene	0.233	0.002	mg/kg	0.200	ND	117	70-130	5.78	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.9	70-130	5.35	20	
Acenaphthene	0.212	0.020	"	0.200	0.004	104	70-130	8.25	20	
Anthracene	0.196	0.020	"	0.200	0.003	96.5	70-130	0.944	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	0.006	89.4	70-130	18.0	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	90.0	70-130	3.27	20	
Benzo (b) fluoranthene	0.157	0.020	"	0.200	ND	78.3	70-130	8.11	20	
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	ND	91.7	70-130	6.56	20	
Benzo (k) fluoranthene	0.217	0.020	"	0.200	ND	109	70-130	15.0	20	
Chrysene	0.207	0.020	"	0.200	ND	103	70-130	2.52	20	
Dibenz (a,h) anthracene	0.167	0.020	"	0.200	ND	83.7	70-130	1.10	20	
Fluoranthene	0.179	0.020	"	0.200	ND	89.7	70-130	1.06	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0139 - EPA 3580

Matrix Spike Dup (B3I0139-MSD1)	Source: Y309019-01			Prepared: 09/01/2023 Analyzed: 09/01/2023						
Fluorene	0.198	0.020	mg/kg	0.200	ND	98.8	70-130	4.97	20	
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200	ND	108	70-130	0.613	20	
Naphthalene	0.211	0.002	"	0.200	ND	105	70-130	6.13	20	
Phenanthrene	0.180	0.020	"	0.200	ND	90.2	70-130	0.161	20	
Pyrene	0.214	0.020	"	0.200	ND	107	70-130	12.9	20	
Surrogate: Fluorene-d10	190		ug/ g	200		93.0	60-130			
Surrogate: nthalene-d10	180		"	200		89.9	60-130			
Surrogate: Benzo a pyrene-d12	190		"	200		94.6	60-130			
Surrogate: yrene-d10	210		"	200		105	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0201 - Saturated Paste Metals

Blank (B3I0201-BLK1)

Prepared: 09/02/2023 Analyzed: 09/05/2023

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

Duplicate (B3I0201-DUP1)

Source: Y309007-11

Prepared: 09/02/2023 Analyzed: 09/05/2023

SAR	ND	0.0100	SAR	2.97					200	
Calcium PPM	17.2	10.0	mg/L	16.6				3.37	50	
Magnesium PPM	3.24	10.0	"	2.94				9.71	50	
Sodium PPM	49.2	10.0	"	50.0				1.69	50	

Batch B3I0202 - Saturated Paste Metals

Blank (B3I0202-BLK1)

Prepared: 09/02/2023 Analyzed: 09/05/2023

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

Duplicate (B3I0202-DUP1)

Source: Y309020-12

Prepared: 09/02/2023 Analyzed: 09/05/2023

Calcium PPM	382	10.0	mg/L	389				1.89	50	
SAR	ND	0.0100	SAR	1.60					200	
Magnesium PPM	314	10.0	mg/L	311				1.06	50	
Sodium PPM	180	10.0	"	175				2.95	50	

Batch B3I0512 - DTPA Sorbitol Preparation

Blank (B3I0512-BLK1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

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 - McKinstry 28N 21N 7C 2N 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
Batch B3I0512 - DTPA Sorbitol Preparation										
Blank (B3I0512-BLK1)					Prepared: 09/05/2023 Analyzed: 09/06/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3I0512-DUP1)		Source: Y309007-01			Prepared: 09/05/2023 Analyzed: 09/06/2023					
Boron	0.112	0.0982	mg/L		0.0893			22.6	50	
Batch B3I0513 - DTPA Sorbitol Preparation										
Blank (B3I0513-BLK1)					Prepared: 09/05/2023 Analyzed: 09/06/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3I0513-DUP1)		Source: Y309020-04			Prepared: 09/05/2023 Analyzed: 09/06/2023					
Boron	2.04	0.0999	mg/L		2.04			0.198	50	

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 - McKinstry 28N 21N 7C 2N 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 B310204 - Saturated Paste pH/EC

Blank (B310204-BLK1)

Prepared: 09/02/2023 Analyzed: 09/03/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B310204-DUP1)

Source: Y309007-11

Prepared: 09/02/2023 Analyzed: 09/03/2023

Specific Conductance (EC) 0.403 0.00500 mmhos/cm 0.418 3.51 25

Batch B310205 - Saturated Paste pH/EC

Blank (B310205-BLK1)

Prepared: 09/02/2023 Analyzed: 09/03/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B310205-DUP1)

Source: Y309020-12

Prepared: 09/02/2023 Analyzed: 09/03/2023

Specific Conductance (EC) 5.69 0.00500 mmhos/cm 5.75 1.05 25

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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.

Jordan A. Bynon, Project Manager

September 12, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. September 05, 2023. This project is associated with Origins project number Y309046-01.

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

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

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

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

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

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



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-N03@3'	Y309046-01	Soil	September 5, 2023 13:12	09/05/2023 16:15
SEP-N03@9'	Y309046-02	Soil	September 5, 2023 13:14	09/05/2023 16:15
SEP-N04@3'	Y309046-03	Soil	September 5, 2023 13:16	09/05/2023 16:15
SEP-N04@9'	Y309046-04	Soil	September 5, 2023 13:18	09/05/2023 16:15
SEP-N05@3'	Y309046-05	Soil	September 5, 2023 15:01	09/05/2023 16:15
SEP-N05@9'	Y309046-06	Soil	September 5, 2023 15:03	09/05/2023 16:15

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 - McKinstry 28N 21N 7C 2N OSA

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

ORIGINS
 LABORATORY, INC

4309046
 Impacted

www.originslaboratory.com

page | of |

Client: Eagle Environmental (oxy)
 Address: 8000 W. 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: dcoloccia@eagle-environ.com
 Project Manager: D. Coloccia
 Project Name: McKinstry 28N 21N 7C 2N O SA
 Project Number: —
 Samples Collected By: AR

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis				Sample Instructions							
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX, P	TPH		TMBs	PC	PAHs #	MP	MPA	MPA	Metals #
SEP-N0303'	9-5-23	1312	3	X			X		X	X	X	X	X	X	X	X	X	X	X	Run Only Metals *
SEP-N0309'		1314																		Asenic, Barium, Selenium
SEP-N0405'		1316																		All PAHs except # 4
SEP-N0409'		1318																		
SEP-N0503'		1501																		
SEP-N0509'		1503																		

Temp Received: 9 Date Results Needed

Retinquished By: *W. Bynon*
 Date: 9-5-23
 Time: 1015
 Received By: *W. Bynon*
 Date: 9/5/23
 Time: 1015
 Turnaround Time:
 Same Day 24 Hr
 48 Hr 72 Hr
 Standard

Origins Laboratory, Inc.

W. 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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43040450

Client: Eagle

Client Project ID: McKinstry 28N 21N 7C 2N

Checklist Completed by: EMS/TSH

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

Date/time completed: 9/5/23

Airbill #: N/A

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

Cooler Number/Temperature: 119 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T004

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

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

Eric Butcher
 Reviewed by (Project Manager)

9/5/23
 Date/Time Reviewed

Origins Laboratory, Inc.

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N03@3'

9/5/2023 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.991	0.0997	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	94.5 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"		"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N03@3'

9/5/2023 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.05	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	5.61	0.823	"	"	"		"	"	
Sodium	30.4	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: nthalene-d10	78.1 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	100 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N03@3'

9/5/2023 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-01 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 108 % 60-130 3 0 3 / 8 0 / 0 / 2023 09/06/2023

SAR by 20B Saturated Paste

SAR 11.6 0.0100 SAR 1 B3I0608 09/06/2023 09/07/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 4.70 0.00500 mmhos/cm 1 B3I0611 H D 09/06/2023 09/07/2023

Table 915 metals by EPA 6020B

Arsenic	4.16	0.0966	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023
Barium	134	9.66	"	"	"	C H	"	"
Selenium	0.128	0.0966	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N03@9'

9/5/2023 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-02 (Soil)

Boron (DTPA Sorbitol)

Boron	2.01	0.0999	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	90.0 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"		"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N03@9'

9/5/2023 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309046-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	10.3	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	12.3	0.823	"	"	"		"	"	
Sodium	3.80	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	
Surrogate: nthalene-d10	88.9 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	97.2 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N03@9'

9/5/2023 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-02 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 107% 60-130 3038 0/0/2023 09/06/2023

SAR by 20B Saturated Paste

SAR 1.13 0.0100 SAR 1 B3I0608 09/06/2023 09/07/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 2.11 0.00500 mmhos/cm 1 B3I0611 H D 09/06/2023 09/07/2023

Table 915 metals by EPA 6020B

Arsenic	7.03	0.0854	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023
Barium	129	8.54	"	"	"	C H	"	"
Selenium	0.198	0.0854	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N04@3'

9/5/2023 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.684	0.0989	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: <i>o</i> -Terphenyl	90.5 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"		"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N04@3'

9/5/2023 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.58	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	4.63	0.823	"	"	"		"	"	
Sodium	3.65	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	103 %	60-130			"	"	"	"	
Surrogate: nthalene-d10	89.8 %	60-130			"	"	"	"	
Surrogate: Benzo a pyrene-d12	95.7 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N04@3'

9/5/2023 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-03 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	85.3 %	60-130			3038	0/0/2023	09/06/2023
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SAR by 20B Saturated Paste

SAR	1.61	0.0100	SAR	1	B3I0608		09/06/2023	09/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1	B3I0611	H D	09/06/2023	09/07/2023
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Table 915 metals by EPA 6020B

Arsenic	6.78	0.0955	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023
Barium	179	9.55	"	"	"	C H	"	"
Selenium	0.159	0.0955	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N04@9'

9/5/2023 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-04 (Soil)

Boron (DTPA Sorbitol)

Boron	2.27	0.0988	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	91.6 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130			"		"	"	
Surrogate: Toluene-d8	95.4 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N04@9'

9/5/2023 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309046-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	14.5	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	19.2	0.823	"	"	"		"	"	
Sodium	8.09	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	100 %	60-130		"	"	"			
Surrogate: nthalene-d10	86.7 %	60-130		"	"	"			
Surrogate: Benzo a pyrene-d12	98.9 %	60-130		"	"	"			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N04@9'

9/5/2023 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-04 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 101 % 60-130 3 0 3 / 8 0 / 0 / 2023 09/06/2023

SAR by 20B Saturated Paste

SAR 1.97 0.0100 SAR 1 B3I0608 09/06/2023 09/07/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 3.62 0.00500 mmhos/cm 1 B3I0611 H D 09/06/2023 09/07/2023

Table 915 metals by EPA 6020B

Arsenic	7.56	0.0939	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023
Barium	132	9.39	"	"	"	C H	"	"
Selenium	0.174	0.0939	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N05@3'

9/5/2023 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.674	0.0992	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	90.2 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"		"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"		"	"	

Metals by Saturated Paste by EPA 6010

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N05@3'

9/5/2023 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.89	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	2.01	0.823	"	"	"		"	"	
Sodium	2.07	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	99.0 %	60-130			"	"	"	
Surrogate: nthracene-d10	86.9 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	99.3 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N05@3'

9/5/2023 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-05 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10 96.8 % 60-130 3 0 3 / 8 0 / 0 / 2023 09/06/2023

SAR by 20B Saturated Paste

SAR 1.32 0.0100 SAR 1 B3I0608 09/06/2023 09/07/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.691 0.00500 mmhos/cm 1 B3I0611 H D 09/06/2023 09/07/2023

Table 915 metals by EPA 6020B

Arsenic	6.16	0.0973	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023
Barium	149	9.73	"	"	"	C H	"	"
Selenium	0.246	0.0973	"	"	"	C H	"	"

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N05@9'

9/5/2023 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.24	0.0987	mg/L	1	B310605		09/06/2023	09/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310527		09/05/2023	09/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: <i>o</i> -Terphenyl	92.2 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310531	H	09/05/2023	09/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Benzene	0.0565	0.00200	"	"	"	H	"	"	
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	H	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"		"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N05@9'

9/5/2023 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309046-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	7.98	0.499	meq/L	10	[CALC]		09/06/2023	09/07/2023	
Magnesium	10.7	0.823	"	"	"		"	"	
Sodium	4.37	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310538	do	09/05/2023	09/06/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	do	"	"	U
Acenaphthene	ND	0.020	"	"	"	do	"	"	U
Anthracene	ND	0.020	"	"	"	do	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	do	"	"	U
Chrysene	ND	0.020	"	"	"	do	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	do	"	"	U
Fluoranthene	ND	0.020	"	"	"	do	"	"	U
Fluorene	ND	0.020	"	"	"	do	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	do	"	"	U
Naphthalene	ND	0.002	"	"	"	do	"	"	U
Pyrene	ND	0.020	"	"	"	do	"	"	U

Surrogate: Fluorene-d10	103 %	60-130		"	"	"			
Surrogate: nthalene-d10	84.6 %	60-130		"	"	"			
Surrogate: Benzo a pyrene-d12	95.4 %	60-130		"	"	"			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N05@9'

9/5/2023 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309046-06 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	84.7 %	60-130			3038	010	09/06/2023	09/06/2023	
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SAR by 20B Saturated Paste

SAR	1.43	0.0100	SAR	1	B3I0608		09/06/2023	09/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.18	0.00500	mmhos/cm	1	B3I0611	H D	09/06/2023	09/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	7.55	0.0969	mg/kg	10	B3I0534	C H	09/05/2023	09/11/2023	
Barium	112	9.69	"	"	"	C H	"	"	
Selenium	0.260	0.0969	"	"	"	C H	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B310527 - EPA 3550B										
Blank (B310527-BLK1)										
					Prepared: 09/05/2023 Analyzed: 09/05/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.7	50-150			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310527 - EPA 3550B

LCS (B310527-BS1)

Prepared: 09/05/2023 Analyzed: 09/05/2023

Diesel (C10-C28)	740	50.0	mg/kg	1000		74.0	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.2	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310527 - EPA 3550B

Matrix Spike (B310527-MS1)	Source: Y309038-01			Prepared: 09/05/2023 Analyzed: 09/05/2023						
Diesel (C10-C28)	767	50.0	mg/kg	1000	ND	76.7	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B310527 - EPA 3550B										
Matrix Spike Dup (B310527-MSD1)		Source: Y309038-01			Prepared: 09/05/2023 Analyzed: 09/05/2023					
Diesel (C10-C28)	725	50.0	mg/kg	1000	ND	72.5	70-130	5.66	35	
Residual Range Organics (C28-C40)	968	200	"	1000	ND	96.8	70-130	1.51	35	
Surrogate: o-Terphenyl	41		"	49.8		82.4	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B310531 - EPA 5030 (soil)										
Blank (B310531-BLK1)										
					Prepared: 09/05/2023 Analyzed: 09/05/2023					
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	0.12		"	0.125	94.5		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0531 - EPA 5030 (soil)

LCS (B3I0531-BS1)

Prepared: 09/05/2023 Analyzed: 09/05/2023

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0531 - EPA 5030 (soil)

Matrix Spike (B3I0531-MS1)	Source: Y309036-01			Prepared: 09/05/2023 Analyzed: 09/05/2023						
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.116	0.00380	"	0.100	ND	116	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0531 - EPA 5030 (soil)

Matrix Spike Dup (B3I0531-MSD1)	Source: Y309036-01			Prepared: 09/05/2023 Analyzed: 09/05/2023						
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	1.53	20	
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	2.04	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.236	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	1.93	20	
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130	2.89	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	0.790	20	
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130	1.76	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	2.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0534 - EPA 3050B

Blank (B3I0534-BLK1)

Prepared: 09/05/2023 Analyzed: 09/11/2023

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 (B3I0534-BS1)

Prepared: 09/05/2023 Analyzed: 09/11/2023

Arsenic	0.0536	0.000100	mg/kg	0.0500	107	80-120
Barium	5.13	0.0100	"	5.00	103	80-120
Cadmium	0.0523	0.000100	"	0.0500	105	80-120
Copper	0.574	0.0100	"	0.500	115	80-120
Lead	0.0511	0.0100	"	0.0500	102	80-120
Nickel	0.0549	0.0100	"	0.0500	110	80-120
Selenium	0.0496	0.000100	"	0.0500	99.1	80-120
Silver	0.0547	0.000100	"	0.0500	109	80-120
Zinc	0.522	0.100	"	0.500	104	80-120

Matrix Spike (B3I0534-MS1)

Source: Y309042-01

Prepared: 09/05/2023 Analyzed: 09/11/2023

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3I0534 - EPA 3050B										
Matrix Spike (B3I0534-MS1)			Source: Y309042-01			Prepared: 09/05/2023 Analyzed: 09/11/2023				
Arsenic	12.7	0.0973	mg/kg	4.86	7.95	97.9	75-125			
Barium	626	9.73	"	486	158	96.1	75-125			
Cadmium	5.05	0.0973	"	4.86	0.0875	102	75-125			
Copper	61.9	9.73	"	48.6	12.9	101	75-125			
Lead	17.1	9.73	"	4.86	12.9	86.6	75-125			
Nickel	19.7	9.73	"	4.86	16.5	66.2	75-125			QM-07
Selenium	5.15	0.0973	"	4.86	0.561	94.3	75-125			
Silver	5.21	0.0973	"	4.86	0.0295	106	75-125			
Zinc	114	97.3	"	48.6	65.5	99.1	75-125			
Matrix Spike Dup (B3I0534-MSD1)			Source: Y309042-01			Prepared: 09/05/2023 Analyzed: 09/11/2023				
Arsenic	11.7	0.0923	mg/kg	4.61	7.95	81.5	75-125	8.18	20	
Barium	566	9.23	"	461	158	88.4	75-125	10.0	20	
Cadmium	4.86	0.0923	"	4.61	0.0875	103	75-125	3.83	20	
Copper	59.5	9.23	"	46.1	12.9	101	75-125	3.94	20	
Lead	16.4	9.23	"	4.61	12.9	76.0	75-125	4.22	20	
Nickel	19.8	9.23	"	4.61	16.5	72.0	75-125	0.544	20	QM-07
Selenium	4.78	0.0923	"	4.61	0.561	91.4	75-125	7.44	20	
Silver	5.00	0.0923	"	4.61	0.0295	108	75-125	4.10	20	
Zinc	112	92.3	"	46.1	65.5	100	75-125	1.63	20	

Origins Laboratory, Inc.



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 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310538 - EPA 3580

Blank (B310538-BLK1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/ g	200		104	60-130			
Surrogate: nthracene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo a pyrene-d12	190		"	200		96.2	60-130			
Surrogate: yrene-d10	160		"	200		80.7	60-130			

LCS (B310538-BS1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.9	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200		96.9	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130			
Anthracene	0.164	0.020	"	0.200		81.9	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0538 - EPA 3580

LCS (B3I0538-BS1)

Prepared: 09/05/2023 Analyzed: 09/06/2023

Benzo (a) anthracene	0.173	0.005	mg/kg	0.200		86.6	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200		87.6	70-130			
Benzo (b) fluoranthene	0.233	0.020	"	0.200		116	70-130			
Benzo (g,h,i) perylene	0.210	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.3	70-130			
Chrysene	0.187	0.020	"	0.200		93.7	70-130			
Dibenz (a,h) anthracene	0.173	0.020	"	0.200		86.4	70-130			
Fluoranthene	0.160	0.020	"	0.200		80.2	70-130			
Fluorene	0.184	0.020	"	0.200		92.2	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.7	70-130			
Naphthalene	0.192	0.002	"	0.200		95.8	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.3	70-130			
Pyrene	0.190	0.020	"	0.200		95.1	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		99.9	60-130			
Surrogate: nthracene-d10	170		"	200		85.7	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		98.4	60-130			
Surrogate: yrene-d10	200		"	200		97.6	60-130			

Matrix Spike (B3I0538-MS1)

Source: Y309036-01

Prepared: 09/05/2023 Analyzed: 09/06/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.6	70-130			
Acenaphthene	0.185	0.020	"	0.200	ND	92.3	70-130			
Anthracene	0.160	0.020	"	0.200	ND	80.0	70-130			
Benzo (a) anthracene	0.173	0.005	"	0.200	ND	86.3	70-130			
Benzo (a) pyrene	0.173	0.020	"	0.200	ND	86.5	70-130			
Benzo (b) fluoranthene	0.225	0.020	"	0.200	ND	113	70-130			
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	ND	106	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0538 - EPA 3580

Matrix Spike (B3I0538-MS1)		Source: Y309036-01			Prepared: 09/05/2023 Analyzed: 09/06/2023					
Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.7	70-130			
Chrysene	0.190	0.020	"	0.200	0.003	93.8	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.159	0.020	"	0.200	0.0006	79.1	70-130			
Fluorene	0.186	0.020	"	0.200	ND	93.2	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130			
Phenanthrene	0.182	0.020	"	0.200	0.0008	90.6	70-130			
Pyrene	0.179	0.020	"	0.200	ND	89.3	70-130			
Surrogate: Fluorene-d10	200		ug/ g	200		101	60-130			
Surrogate: nthracene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		97.8	60-130			
Surrogate: yrene-d10	180		"	200		91.2	60-130			

Matrix Spike Dup (B3I0538-MSD1)		Source: Y309036-01			Prepared: 09/05/2023 Analyzed: 09/06/2023					
1-Methylnaphthalene	0.177	0.002	mg/kg	0.200	ND	88.6	70-130	8.17	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.2	70-130	5.63	20	
Acenaphthene	0.183	0.020	"	0.200	ND	91.5	70-130	0.783	20	
Anthracene	0.153	0.020	"	0.200	ND	76.4	70-130	4.60	20	
Benzo (a) anthracene	0.164	0.005	"	0.200	ND	81.8	70-130	5.44	20	
Benzo (a) pyrene	0.165	0.020	"	0.200	ND	82.5	70-130	4.72	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	ND	110	70-130	2.29	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	ND	94.2	70-130	11.7	20	
Benzo (k) fluoranthene	0.189	0.020	"	0.200	ND	94.4	70-130	4.43	20	
Chrysene	0.178	0.020	"	0.200	0.003	87.5	70-130	6.85	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	91.9	70-130	8.74	20	
Fluoranthene	0.159	0.020	"	0.200	0.0006	79.2	70-130	0.122	20	

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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0538 - EPA 3580

Matrix Spike Dup (B3I0538-MSD1)	Source: Y309036-01			Prepared: 09/05/2023 Analyzed: 09/06/2023						
Fluorene	0.182	0.020	mg/kg	0.200	ND	91.2	70-130	2.10	20	
Indeno (1,2,3-cd) pyrene	0.160	0.020	"	0.200	ND	79.9	70-130	10.7	20	
Naphthalene	0.182	0.002	"	0.200	ND	90.9	70-130	8.04	20	
Phenanthrene	0.181	0.020	"	0.200	0.0008	90.2	70-130	0.467	20	
Pyrene	0.176	0.020	"	0.200	ND	88.1	70-130	1.30	20	
Surrogate: Fluorene-d10	210		ug/ g	200		104	60-130			
Surrogate: nthalene-d10	170		"	200		85.7	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		99.1	60-130			
Surrogate: yrene-d10	180		"	200		92.1	60-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310605 - DTPA Sorbitol Preparation

Blank (B310605-BLK1)

Prepared: 09/06/2023 Analyzed: 09/07/2023

Boron ND 0.100 mg/L

Duplicate (B310605-DUP1)

Source: Y308584-01

Prepared: 09/06/2023 Analyzed: 09/07/2023

Boron 0.929 0.100 mg/L 0.933 0.446 50

Batch B310608 - Saturated Paste Metals

Blank (B310608-BLK1)

Prepared: 09/06/2023 Analyzed: 09/07/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B310608-DUP1)

Source: Y308584-01

Prepared: 09/06/2023 Analyzed: 09/07/2023

Calcium PPM 65.5 10.0 mg/L 63.6 2.93 50

SAR ND 0.0100 SAR 2.35 200

Magnesium PPM 88.9 10.0 mg/L 85.5 3.91 50

Sodium PPM 126 10.0 " 122 2.77 50

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 - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I0611 - Saturated Paste pH/EC										
Blank (B3I0611-BLK1)					Prepared: 09/06/2023 Analyzed: 09/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3I0611-DUP1)		Source: Y308584-01			Prepared: 09/06/2023 Analyzed: 09/07/2023					
Specific Conductance (EC)	1.51	0.00500	mmhos/cm		1.29			15.5	25	

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 - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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.



September 06, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. September 05, 2023. This project is associated with Origins project number Y309047-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	Y309047-01	Water	September 5, 2023 14:30	09/05/2023 16:15

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4309047

Client: Eagle

Client Project ID: McKinstry 28N 21N 7C 2N

Checklist Completed by: EHS/TS4

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

Date/time completed: 9/5/23

Airbill #: N/A

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

Cooler Number/Temperature: 119 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

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

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

[Signature]
 Reviewed by (Project Manager)

9/5/23
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

GW-01

9/5/2023 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309047-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B310505	SM	09/05/2023	09/05/2023	U
1,3,5-Trimethylbenzene	3.80	2.00	"	"	"	SM	"	"	
Benzene	37.3	1.00	"	"	"	SM	"	09/06/2023	
Ethylbenzene	2.83	1.00	"	"	"	SM	"	09/05/2023	
Naphthalene	ND	2.00	"	"	"	SM	"	"	U
Toluene	14.0	1.00	"	"	"	SM	"	"	
Xylenes, total	48.2	1.00	"	"	"	SM	"	"	

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	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 - McKinstry 28N 21N 7C 2N 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 B310505 - EPA 5030B (Water)

Blank (B310505-BLK1)

Prepared: 09/05/2023 Analyzed: 09/05/2023

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	76		"	62.5	121		70-130			
Surrogate: Toluene-d8	61		"	62.5	96.9		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.9		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 - McKinstry 28N 21N 7C 2N 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 B310505 - EPA 5030B (Water)

LCS (B310505-BS1)

Prepared: 09/05/2023 Analyzed: 09/05/2023

1,2,4-Trimethylbenzene	49.7	2.00	ug/L	50.0		99.4	70-130			
1,3,5-Trimethylbenzene	49.9	2.00	"	50.0		99.8	70-130			
Benzene	51.4	1.00	"	50.0		103	70-130			
Ethylbenzene	50.3	1.00	"	50.0		101	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Naphthalene	48.0	2.00	"	50.0		96.1	70-130			
o-Xylene	50.1	1.00	"	50.0		100	70-130			
Toluene	49.7	1.00	"	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	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 - McKinstry 28N 21N 7C 2N 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 B3I0505 - EPA 5030B (Water)

Matrix Spike (B3I0505-MS1)	Source: Y309016-16			Prepared: 09/05/2023 Analyzed: 09/05/2023						
1,2,4-Trimethylbenzene	44.6	2.00	ug/L	50.0	ND	89.2	70-130			
1,3,5-Trimethylbenzene	45.6	2.00	"	50.0	ND	91.2	70-130			
Benzene	43.0	1.00	"	50.0	ND	85.9	70-130			
Ethylbenzene	44.1	1.00	"	50.0	0.150	87.9	70-130			
m,p-Xylene	86.4	2.00	"	100	ND	86.4	70-130			
Naphthalene	38.9	2.00	"	50.0	ND	77.8	70-130			
o-Xylene	44.4	1.00	"	50.0	ND	88.7	70-130			
Toluene	42.8	1.00	"	50.0	0.610	84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		115	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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 - McKinstry 28N 21N 7C 2N 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 B310505 - EPA 5030B (Water)

Matrix Spike Dup (B310505-MSD1)	Source: Y309016-16			Prepared: 09/05/2023 Analyzed: 09/05/2023						
1,2,4-Trimethylbenzene	59.4	2.00	ug/L	50.0	ND	119	70-130	28.4	20	QR-02
1,3,5-Trimethylbenzene	60.3	2.00	"	50.0	ND	121	70-130	27.8	20	QR-02
Benzene	59.7	1.00	"	50.0	ND	119	70-130	32.6	20	QR-02
Ethylbenzene	60.0	1.00	"	50.0	0.150	120	70-130	30.4	20	QR-02
m,p-Xylene	119	2.00	"	100	ND	119	70-130	31.6	20	QR-02
Naphthalene	50.7	2.00	"	50.0	ND	101	70-130	26.3	20	QR-02
o-Xylene	58.6	1.00	"	50.0	ND	117	70-130	27.6	20	QR-02
Toluene	58.1	1.00	"	50.0	0.610	115	70-130	30.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		115	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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 - McKinstry 28N 21N 7C 2N 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.

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.



September 14, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. September 08, 2023. This project is associated with Origins project number Y309152-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-N06@9'	Y309152-01	Soil	September 8, 2023 14:05	09/08/2023 16:25
SEP-B18@14'	Y309152-02	Soil	September 8, 2023 14:12	09/08/2023 16:25

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4309152

Client: Eagle

Client Project ID: McKinstry 28N 21N 7C

Checklist Completed by: TJH

Shipped Via: HD

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

Date/time completed: 9/18/23

Airbill #: na

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

Cooler Number/Temperature: 178 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

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

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

Reviewed by (Project Manager) TJH

Date/Time Reviewed 9/18/23

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 - McKinstry 28N 21N 7C 2N OSA

SEP-N06@9'

9/8/2023 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309152-01 (Soil)

Boron (DTPA Sorbitol)

Boron	3.17	0.102	mg/L	1	B311110		09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B310801		09/08/2023	09/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl	93.4 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B310827	SM	09/08/2023	09/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Benzene	ND	0.00200	"	"	"	SM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	SM	"	"	U
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	SM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	SM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"		"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %	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 - McKinstry 28N 21N 7C 2N OSA

SEP-N06@9'

9/8/2023 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309152-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	9.78	0.499	meq/L	10	[CALC]		09/09/2023	09/11/2023	
Magnesium	18.1	0.823	"	"	"		"	"	
Sodium	3.54	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B310830	e	09/08/2023	09/11/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	e	"	"	U
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Anthracene	ND	0.020	"	"	"	e	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	ND	0.002	"	"	"	e	"	"	U
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: Fluorene-d10	95.9 %	60-130			"	"		"	
Surrogate: nthalene-d10	105 %	60-130			"	"		"	
Surrogate: Benzo a pyrene-d12	94.7 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-N06@9'

9/8/2023 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309152-01 (Soil)

PAH by EPA 8270E

Surrogate: yrene-d10	97.8 %	60-130			3 083 0	0 /08/2023	09/11/2023
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SAR by 20B Saturated Paste

SAR	0.947	0.0100	SAR	1	B3I0902		09/09/2023	09/11/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.72	0.00500	mmhos/cm	1	B3I0905	C	09/09/2023	09/10/2023
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Table 915 metals by EPA 6020B

Arsenic	4.93	0.0902	mg/kg	10	B3I1101	C H	09/11/2023	09/12/2023
Barium	165	9.02	"	"	"	C H	"	"
Selenium	0.156	0.0902	"	"	"	C H	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B18@14'

9/8/2023 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309152-02 (Soil)

Boron (DTPA Sorbitol)

Boron	4.24	0.101	mg/L	1	B3I1110		09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I0801		09/08/2023	09/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: <i>o</i> -Terphenyl	104 %	50-150			"		"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0106	0.00200	mg/kg	1	B3I0827	SM	09/08/2023	09/08/2023	
1,3,5-Trimethylbenzene	0.00298	0.00200	"	"	"	SM	"	"	
Benzene	0.324	0.00200	"	"	"	SM	"	"	
Ethylbenzene	0.0102	0.00200	"	"	"	SM	"	"	
Toluene	ND	0.00200	"	"	"	SM	"	"	U
Xylenes, total	0.0266	0.00200	"	"	"	SM	"	"	
Gasoline Range Hydrocarbons	0.436	0.200	"	"	"	SM	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"		"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130			"		"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.10	0.499	meq/L	10	[CALC]		09/09/2023	09/11/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B18@14'

9/8/2023 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309152-02 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	10.1	0.823	meq/L	10	[CALC]		09/09/2023	09/11/2023	
Sodium	53.3	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.023	0.002	mg/kg	1	B310830	e	09/08/2023	09/11/2023	
2-Methylnaphthalene	0.038	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Anthracene	ND	0.020	"	"	"	e	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	0.015	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: Fluorene-d10	87.4 %	60-130			"	"	"	
Surrogate: nthalene-d10	88.5 %	60-130			"	"	"	
Surrogate: Benzo a pyrene-d12	99.6 %	60-130			"	"	"	
Surrogate: yrene-d10	98.3 %	60-130			"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B18@14'

9/8/2023 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309152-02 (Soil)

SAR by 20B Saturated Paste

SAR	17.2	0.0100	SAR	1	B3I0902		09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.83	0.00500	mmhos/cm	1	B3I0905	C	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	13.0	0.0925	mg/kg	10	B3I1101	C H	09/11/2023	09/12/2023	
Barium	168	9.25	"	"	"	C H	"	"	
Selenium	0.779	0.0925	"	"	"	C H	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B310801 - EPA 3550B										
Blank (B310801-BLK1)										
					Prepared: 09/08/2023 Analyzed: 09/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310801 - EPA 3550B

LCS (B310801-BS1)

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

Diesel (C10-C28)	894	50.0	mg/kg	1000		89.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0801 - EPA 3550B

Matrix Spike (B3I0801-MS1)	Source: Y309116-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
Diesel (C10-C28)	1890	50.0	mg/kg	1000	693	119	70-130			
Residual Range Organics (C28-C40)	2150	200	"	1000	732	142	70-130			QM-07
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0801 - EPA 3550B

Matrix Spike Dup (B3I0801-MSD1)	Source: Y309116-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
Diesel (C10-C28)	1510	50.0	mg/kg	1000	693	81.8	70-130	22.1	35	
Residual Range Organics (C28-C40)	1720	200	"	1000	732	98.7	70-130	22.2	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B310827 - EPA 5030 (soil)

Blank (B310827-BLK1)

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

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	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.0		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 - McKinstry 28N 21N 7C 2N 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 B3I0827 - EPA 5030 (soil)

LCS (B3I0827-BS1)

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

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	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	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 - McKinstry 28N 21N 7C 2N 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 B3I0827 - EPA 5030 (soil)

Matrix Spike (B3I0827-MS1)	Source: Y309133-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0983	0.00200	"	0.100	0.000400	97.9	70-130			
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	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 - McKinstry 28N 21N 7C 2N 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 B3I0827 - EPA 5030 (soil)

Matrix Spike Dup (B3I0827-MSD1)	Source: Y309133-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100	ND	98.6	70-130	2.01	20	
1,3,5-Trimethylbenzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	0.835	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	1.11	20	
Ethylbenzene	0.0979	0.00200	"	0.100	0.000400	97.5	70-130	0.489	20	
Naphthalene	0.0979	0.00380	"	0.100	ND	97.9	70-130	1.03	20	
Toluene	0.0988	0.00200	"	0.100	ND	98.8	70-130	1.91	20	
o-Xylene	0.0935	0.00200	"	0.100	ND	93.5	70-130	0.214	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130	1.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I1101 - EPA 3050B

Blank (B3I1101-BLK1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

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 (B3I1101-BS1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

Arsenic	0.0482	0.000100	mg/kg	0.0500		96.4	80-120			
Barium	4.71	0.0100	"	5.00		94.3	80-120			
Cadmium	0.0487	0.000100	"	0.0500		97.4	80-120			
Copper	0.537	0.0100	"	0.500		107	80-120			
Lead	0.0475	0.0100	"	0.0500		95.1	80-120			
Nickel	0.0488	0.0100	"	0.0500		97.5	80-120			
Selenium	0.0477	0.000100	"	0.0500		95.4	80-120			
Silver	0.0508	0.000100	"	0.0500		102	80-120			
Zinc	0.504	0.100	"	0.500		101	80-120			

Matrix Spike (B3I1101-MS1)

Source: Y309151-01

Prepared: 09/11/2023 Analyzed: 09/12/2023

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B311101 - EPA 3050B

Matrix Spike (B311101-MS1)		Source: Y309151-01			Prepared: 09/11/2023 Analyzed: 09/12/2023					
Arsenic	7.33	0.0936	mg/kg	4.68	4.40	62.5	75-125			QM-07
Barium	861	9.36	"	468	168	148	75-125			QM-07
Cadmium	4.90	0.0936	"	4.68	0.380	96.6	75-125			
Copper	59.8	9.36	"	46.8	16.5	92.4	75-125			
Lead	18.1	9.36	"	4.68	15.5	55.7	75-125			QM-07
Nickel	14.6	9.36	"	4.68	14.0	13.0	75-125			QM-07
Selenium	4.27	0.0936	"	4.68	0.348	83.8	75-125			
Silver	4.91	0.0936	"	4.68	0.0373	104	75-125			
Zinc	89.4	93.6	"	46.8	50.6	82.9	75-125			
Matrix Spike Dup (B311101-MSD1)		Source: Y309151-01			Prepared: 09/11/2023 Analyzed: 09/12/2023					
Arsenic	7.61	0.0939	mg/kg	4.70	4.40	68.3	75-125	3.78	20	QM-07
Barium	519	9.39	"	470	168	74.6	75-125	49.6	20	QM-07
Cadmium	4.75	0.0939	"	4.70	0.380	93.1	75-125	3.10	20	
Copper	60.5	9.39	"	47.0	16.5	93.6	75-125	1.21	20	
Lead	15.9	9.39	"	4.70	15.5	9.34	75-125	12.7	20	QM-07
Nickel	13.7	9.39	"	4.70	14.0	NR	75-125	5.88	20	QM-07
Selenium	4.37	0.0939	"	4.70	0.348	85.7	75-125	2.42	20	
Silver	4.78	0.0939	"	4.70	0.0373	101	75-125	2.69	20	
Zinc	89.1	93.9	"	47.0	50.6	81.9	75-125	0.343	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310830 - EPA 3580

Blank (B310830-BLK1)

Prepared: 09/08/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	170		ug/ g	200		86.2	60-130			
Surrogate: nthracene-d10	230		"	200		113	60-130			
Surrogate: Benzo a pyrene-d12	190		"	200		96.7	60-130			
Surrogate: yrene-d10	210		"	200		103	60-130			

LCS (B310830-BS1)

Prepared: 09/08/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		90.9	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.7	70-130			
Acenaphthene	0.162	0.020	"	0.200		80.9	70-130			
Anthracene	0.184	0.020	"	0.200		92.0	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0830 - EPA 3580

LCS (B3I0830-BS1)

Prepared: 09/08/2023 Analyzed: 09/11/2023

Benzo (a) anthracene	0.178	0.005	mg/kg	0.200		88.8	70-130			
Benzo (a) pyrene	0.164	0.020	"	0.200		81.9	70-130			
Benzo (b) fluoranthene	0.163	0.020	"	0.200		81.5	70-130			
Benzo (g,h,i) perylene	0.169	0.020	"	0.200		84.5	70-130			
Benzo (k) fluoranthene	0.181	0.020	"	0.200		90.5	70-130			
Chrysene	0.193	0.020	"	0.200		96.5	70-130			
Dibenz (a,h) anthracene	0.184	0.020	"	0.200		91.8	70-130			
Fluoranthene	0.175	0.020	"	0.200		87.3	70-130			
Fluorene	0.167	0.020	"	0.200		83.6	70-130			
Indeno (1,2,3-cd) pyrene	0.159	0.020	"	0.200		79.6	70-130			
Naphthalene	0.189	0.002	"	0.200		94.6	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.0	70-130			
Pyrene	0.168	0.020	"	0.200		83.9	70-130			
Surrogate: Fluorene-d10	170		ug/ g	200		83.9	60-130			
Surrogate: nthracene-d10	220		"	200		112	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		99.0	60-130			
Surrogate: yrene-d10	190		"	200		93.8	60-130			

Matrix Spike (B3I0830-MS1)

Source: Y309152-01

Prepared: 09/08/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	ND	94.0	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.3	70-130			
Acenaphthene	0.190	0.020	"	0.200	ND	94.8	70-130			
Anthracene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.162	0.005	"	0.200	0.0006	80.8	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.207	0.020	"	0.200	0.003	102	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.0008	97.3	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I0830 - EPA 3580

Matrix Spike (B3I0830-MS1)		Source: Y309152-01			Prepared: 09/08/2023 Analyzed: 09/11/2023					
Benzo (k) fluoranthene	0.169	0.020	mg/kg	0.200	ND	84.6	70-130			
Chrysene	0.179	0.020	"	0.200	ND	89.7	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.002	112	70-130			
Fluoranthene	0.192	0.020	"	0.200	0.0004	95.9	70-130			
Fluorene	0.175	0.020	"	0.200	ND	87.7	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.192	0.002	"	0.200	ND	95.8	70-130			
Phenanthrene	0.188	0.020	"	0.200	0.001	93.6	70-130			
Pyrene	0.150	0.020	"	0.200	ND	74.9	70-130			
Surrogate: Fluorene-d10	190		ug/ g	200		94.5	60-130			
Surrogate: nthracene-d10	210		"	200		105	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		98.5	60-130			
Surrogate: yrene-d10	190		"	200		96.4	60-130			

Matrix Spike Dup (B3I0830-MSD1)		Source: Y309152-01			Prepared: 09/08/2023 Analyzed: 09/11/2023					
1-Methylnaphthalene	0.177	0.002	mg/kg	0.200	ND	88.6	70-130	5.92	20	
2-Methylnaphthalene	0.180	0.002	"	0.200	ND	90.0	70-130	2.50	20	
Acenaphthene	0.181	0.020	"	0.200	ND	90.6	70-130	4.49	20	
Anthracene	0.218	0.020	"	0.200	ND	109	70-130	6.57	20	
Benzo (a) anthracene	0.178	0.005	"	0.200	0.0006	88.8	70-130	9.45	20	
Benzo (a) pyrene	0.174	0.020	"	0.200	ND	87.2	70-130	23.1	20	QR-02
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.003	87.5	70-130	15.4	20	
Benzo (g,h,i) perylene	0.169	0.020	"	0.200	0.0008	84.2	70-130	14.4	20	
Benzo (k) fluoranthene	0.169	0.020	"	0.200	ND	84.6	70-130	0.0552	20	
Chrysene	0.170	0.020	"	0.200	ND	84.8	70-130	5.57	20	
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	0.002	90.7	70-130	21.0	20	QR-02
Fluoranthene	0.207	0.020	"	0.200	0.0004	103	70-130	7.38	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310830 - EPA 3580

Matrix Spike Dup (B310830-MSD1)	Source: Y309152-01			Prepared: 09/08/2023 Analyzed: 09/11/2023						
Fluorene	0.164	0.020	mg/kg	0.200	ND	82.0	70-130	6.72	20	
Indeno (1,2,3-cd) pyrene	0.142	0.020	"	0.200	ND	70.9	70-130	40.0	20	QR-02
Naphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	1.37	20	
Phenanthrene	0.184	0.020	"	0.200	0.001	91.1	70-130	2.65	20	
Pyrene	0.162	0.020	"	0.200	ND	80.8	70-130	7.63	20	
Surrogate: Fluorene-d10	180		ug/ g	200		88.5	60-130			
Surrogate: nthracene-d10	210		"	200		104	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		98.4	60-130			
Surrogate: yrene-d10	180		"	200		92.0	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3I0902 - Saturated Paste Metals

Blank (B3I0902-BLK1)

Prepared: 09/09/2023 Analyzed: 09/11/2023

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

Duplicate (B3I0902-DUP1)

Source: Y309070-01

Prepared: 09/09/2023 Analyzed: 09/11/2023

Calcium PPM	30.5	10.0	mg/L		33.0			7.84	50	
SAR	ND	0.0100	SAR		0.152				200	
Magnesium PPM	8.26	10.0	mg/L		8.71			5.30	50	
Sodium PPM	3.79	10.0	"		3.81			0.526	50	

Batch B3I1110 - DTPA Sorbitol Preparation

Blank (B3I1110-BLK1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I1110-DUP1)

Source: Y309070-01

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	0.235	0.0993	mg/L		0.238			1.23	50	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I0905 - Saturated Paste pH/EC										
Blank (B3I0905-BLK1)					Prepared: 09/09/2023 Analyzed: 09/10/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3I0905-DUP1)		Source: Y309070-01			Prepared: 09/09/2023 Analyzed: 09/10/2023					
Specific Conductance (EC)	0.284	0.00500	mmhos/cm		0.273			3.80	25	

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N 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.

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October 17, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - **KMG - McKinstry 28N 21N 7C 2N OSA** Project Number - **[none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. October 03, 2023. This project is associated with Origins project number Y310079-01.

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

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

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

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

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

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



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B19@14'	Y310079-01	Soil	October 3, 2023 10:00	10/03/2023 15:40
SEP-B20@14'	Y310079-02	Soil	October 3, 2023 9:45	10/03/2023 15:40

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310079

Client: Eagle

Checklist Completed by: ET/SL/AN

Client Project ID: McKinstry 28N 21N 7C 2N

Date/time completed: 10/13/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

[Signature]
 Reviewed by (Project Manager)

10/13/12
 Date/Time Reviewed

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B19@14'

10/3/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.23		0.0999	mg/L	1	B3J0411	10/04/2023	10/05/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J0323	10/03/2023	10/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J0329	10/03/2023	10/03/2023	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	108 %		70-130			"	"	"	
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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 - McKinstry 28N 21N 7C 2N OSA

SEP-B19@14'

10/3/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.5 %		70-130			B3J03 29	10/03/2023	10/03/2023	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.28		0.499	meq/L	10	[CALC]	10/04/2023	10/05/2023	
Magnesium	8.79		0.823	"	"	"	"	"	
Sodium	13.8		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3J0328	10/03/2023	10/04/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B19@14'

10/3/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-01 (Soil)

PAH by EPA 8270E

Pyrene	ND		0.020	mg/kg	1	B3J0328	10/03/2023	10/04/2023	U
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Surrogate: Fluorene-d10	93.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	138 %		60-130			"	"	"	S-04
Surrogate: Pyrene-d10	97.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	90.9 %		60-130			"	"	"	

SAR by 20B Saturated Paste

SAR	4.73		0.0100	SAR	1	B3J0406	10/04/2023	10/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.28		0.00500	mmhos/cm	1	B3J0416	10/04/2023	10/05/2023	
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Total Metals by 6020B

Arsenic	4.33	0.0855	0.25	mg/Kg	5	L709127	10/06/2023	10/17/2023	
Barium	104	0.042	0.25	"	"	"	"	"	
Selenium	0.618	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B20@14'
10/3/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.199		0.0997	mg/L	1	B3J0411	10/04/2023	10/05/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J0323	10/03/2023	10/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J0329	10/03/2023	10/04/2023	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	103 %		70-130			"	"	"	
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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 - McKinstry 28N 21N 7C 2N OSA

SEP-B20@14'
10/3/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %		70-130			B3J03 29	10/03/2023	10/04/2023	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.55	0.499	meq/L	10	[CALC]		10/04/2023	10/05/2023	
Magnesium	4.02	0.823	"	"	"		"	"	
Sodium	9.49	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0328		10/03/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U
Fluorene	ND	0.020	"	"	"		"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"		"	"	U
Naphthalene	ND	0.002	"	"	"		"	"	U

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B20@14'
10/3/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310079-02 (Soil)

PAH by EPA 8270E

Pyrene	ND		0.020	mg/kg	1	B3J0328	10/03/2023	10/04/2023	U
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Surrogate: Fluorene-d10	96.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	123 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

SAR by 20B Saturated Paste

SAR	4.58		0.0100	SAR	1	B3J0406	10/04/2023	10/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.16		0.00500	mmhos/cm	1	B3J0416	10/04/2023	10/05/2023	
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Total Metals by 6020B

Arsenic	1.01	0.0855	0.25	mg/Kg	5	L709127	10/06/2023	10/17/2023	
Barium	40.7	0.042	0.25	"	"	"	"	"	
Selenium	0.59	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3J0323 - EPA 3550B										
Blank (B3J0323-BLK1)										
					Prepared: 10/03/2023 Analyzed: 10/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.8	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0323 - EPA 3550B

LCS (B3J0323-BS1)

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

Diesel (C10-C28)	936	50.0	mg/kg	1000		93.6	70-130			
Residual Range Organics (C28-C40)	975	200	"	1000		97.5	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0323 - EPA 3550B

Matrix Spike (B3J0323-MS1)	Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/03/2023						
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000	ND	97.0	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0323 - EPA 3550B

Matrix Spike Dup (B3J0323-MSD1)	Source: Y310068-01		Prepared: 10/03/2023 Analyzed: 10/03/2023							
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130	2.62	35	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130	2.48	35	
<i>Surrogate: o-Terphenyl</i>	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0329 - EPA 5030 (soil)

Blank (B3J0329-BLK1)

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

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	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.3		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 - McKinstry 28N 21N 7C 2N 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 B3J0329 - EPA 5030 (soil)

LCS (B3J0329-BS1)

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

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0953	0.00200	"	0.100		95.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0986	0.00380	"	0.100		98.6	70-130			
Toluene	0.0992	0.00200	"	0.100		99.2	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 - McKinstry 28N 21N 7C 2N 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 B3J0329 - EPA 5030 (soil)

Matrix Spike (B3J0329-MS1)	Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/03/2023						
1,2,4-Trimethylbenzene	0.526	0.00200	mg/kg	0.100	0.123	402	70-130			QM-07
1,3,5-Trimethylbenzene	0.465	0.00200	"	0.100	0.0964	369	70-130			QM-07
Benzene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
Ethylbenzene	0.136	0.00200	"	0.100	0.00670	129	70-130			QM-07
Naphthalene	0.107	0.00380	"	0.100	0.00652	100	70-130			
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
o-Xylene	0.0903	0.00200	"	0.100	0.000620	89.7	70-130			
m,p-Xylene	0.610	0.00400	"	0.200	0.0789	266	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		118	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 - McKinstry 28N 21N 7C 2N 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 B3J0329 - EPA 5030 (soil)

Matrix Spike Dup (B3J0329-MSD1)	Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/03/2023						
1,2,4-Trimethylbenzene	0.576	0.00200	mg/kg	0.100	0.123	453	70-130	9.16	20	QM-07
1,3,5-Trimethylbenzene	0.481	0.00200	"	0.100	0.0964	384	70-130	3.21	20	QM-07
Benzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	9.27	20	
Ethylbenzene	0.202	0.00200	"	0.100	0.00670	195	70-130	39.1	20	QM-07
Naphthalene	0.122	0.00380	"	0.100	0.00652	115	70-130	12.9	20	
Toluene	0.0964	0.00200	"	0.100	ND	96.4	70-130	1.80	20	
o-Xylene	0.0955	0.00200	"	0.100	0.000620	94.8	70-130	5.56	20	
m,p-Xylene	1.04	0.00400	"	0.200	0.0789	479	70-130	51.8	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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 - McKinstry 28N 21N 7C 2N 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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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0328 - EPA 3580

Blank (B3J0328-BLK1)

Prepared: 10/03/2023 Analyzed: 10/04/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		97.0	60-130			
Surrogate: Anthracene-d10	250		"	200		124	60-130			
Surrogate: Pyrene-d10	190		"	200		93.8	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		88.3	60-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0328 - EPA 3580

LCS (B3J0328-BS1)

Prepared: 10/03/2023 Analyzed: 10/04/2023

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.4	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.6	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.0	70-130			
Anthracene	0.222	0.020	"	0.200		111	70-130			
Benzo (a) anthracene	0.177	0.005	"	0.200		88.7	70-130			
Benzo (a) pyrene	0.232	0.020	"	0.200		116	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		87.8	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200		109	70-130			
Benzo (k) fluoranthene	0.226	0.020	"	0.200		113	70-130			
Chrysene	0.194	0.020	"	0.200		96.9	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		108	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.3	70-130			
Fluorene	0.177	0.020	"	0.200		88.3	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130			
Naphthalene	0.190	0.002	"	0.200		94.8	70-130			
Phenanthrene	0.208	0.020	"	0.200		104	70-130			
Pyrene	0.230	0.020	"	0.200		115	70-130			

Surrogate: Fluorene-d10	180		ug/kg	200		91.7	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

Matrix Spike (B3J0328-MS1)

Source: Y310068-01

Prepared: 10/03/2023 Analyzed: 10/04/2023

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200	0.017	98.0	70-130			
2-Methylnaphthalene	0.229	0.002	"	0.200	0.040	94.6	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Anthracene	0.192	0.020	"	0.200	ND	96.0	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 - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0328 - EPA 3580

Matrix Spike (B3J0328-MS1)		Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/04/2023					
Benzo (a) anthracene	0.173	0.005	mg/kg	0.200	ND	86.3	70-130			
Benzo (a) pyrene	0.196	0.020	"	0.200	ND	98.2	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200	ND	90.6	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	ND	94.1	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200	ND	91.9	70-130			
Chrysene	0.204	0.020	"	0.200	ND	102	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.0	70-130			
Fluoranthene	0.191	0.020	"	0.200	ND	95.6	70-130			
Fluorene	0.196	0.020	"	0.200	0.003	96.6	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	94.8	70-130			
Naphthalene	0.201	0.002	"	0.200	0.006	97.6	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.004	98.3	70-130			
Pyrene	0.191	0.020	"	0.200	0.0007	94.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	190		"	200		94.0	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		92.1	60-130			

Matrix Spike Dup (B3J0328-MSD1)		Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/04/2023					
1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	0.017	98.9	70-130	0.843	20	
2-Methylnaphthalene	0.231	0.002	"	0.200	0.040	95.3	70-130	0.592	20	
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130	2.84	20	
Anthracene	0.209	0.020	"	0.200	ND	105	70-130	8.66	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	ND	94.6	70-130	9.16	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	109	70-130	10.7	20	
Benzo (b) fluoranthene	0.175	0.020	"	0.200	ND	87.5	70-130	3.40	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	ND	101	70-130	7.20	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0328 - EPA 3580

Matrix Spike Dup (B3J0328-MSD1)	Source: Y310068-01			Prepared: 10/03/2023 Analyzed: 10/04/2023						
Benzo (k) fluoranthene	0.203	0.020	mg/kg	0.200	ND	102	70-130	10.0	20	
Chrysene	0.207	0.020	"	0.200	ND	104	70-130	1.63	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	99.9	70-130	2.90	20	
Fluoranthene	0.165	0.020	"	0.200	ND	82.4	70-130	14.8	20	
Fluorene	0.195	0.020	"	0.200	0.003	95.7	70-130	0.911	20	
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.4	70-130	4.82	20	
Naphthalene	0.212	0.002	"	0.200	0.006	103	70-130	5.53	20	
Phenanthrene	0.205	0.020	"	0.200	0.004	101	70-130	2.16	20	
Pyrene	0.240	0.020	"	0.200	0.0007	119	70-130	22.7	20	QR-02
Surrogate: Fluorene-d10	190		ug/kg	200		94.6	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	260		"	200		128	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0406 - Saturated Paste Metals

Blank (B3J0406-BLK1)

Prepared: 10/04/2023 Analyzed: 10/05/2023

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

Duplicate (B3J0406-DUP1)

Source: Y310068-01

Prepared: 10/04/2023 Analyzed: 10/05/2023

Calcium PPM	20.8	10.0	mg/L		19.4			7.22	50	
SAR	ND	0.0100	SAR		2.51				200	
Magnesium PPM	8.73	10.0	mg/L		8.33			4.69	50	
Sodium PPM	54.0	10.0	"		52.4			3.07	50	

Batch B3J0411 - DTPA Sorbitol Preparation

Blank (B3J0411-BLK1)

Prepared: 10/04/2023 Analyzed: 10/05/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3J0411-DUP1)

Source: Y310068-01

Prepared: 10/04/2023 Analyzed: 10/05/2023

Boron	0.174	0.0998	mg/L		0.209			18.1	50	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J0416 - Saturated Paste pH/EC										
Blank (B3J0416-BLK1)					Prepared: 10/04/2023 Analyzed: 10/05/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3J0416-DUP1)					Source: Y310068-01 Prepared: 10/04/2023 Analyzed: 10/05/2023					
Specific Conductance (EC)	0.440	0.00500	mmhos/cm		0.437			0.570	25	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L709127 - 3050B										
MSD (L 98817-MSD-L709127)			Source: 98817			Prepared: 10/06/2023 Analyzed: 10/17/2023				
Arsenic	5.5	0.25	mg/Kg	2.47	4.84	27	75-125	10	80	*
Barium	112	0.25	"	4.93	176	0	75-125	84.5	80	I*
Selenium	4.76	0.25	"	4.93	1.41	68	75-125	9.9	80	*
MS (L 98817-MS-L709127)			Source: 98817			Prepared: 10/06/2023 Analyzed: 10/17/2023				
Arsenic	6.08	0.25	mg/Kg	2.39	4.84	52	75-125			*
Barium	276	0.25	"	4.78	176	NR	75-125			I*
Selenium	5.26	0.25	"	4.78	1.41	81	75-125			
LCS (LCS-L709127)						Prepared: 10/06/2023 Analyzed: 10/17/2023				
Arsenic	2.31	0.25	mg/Kg	2.5		92	80-120			
Barium	4.71	0.25	"	5		94	80-120			
Selenium	4.6	0.25	"	5		92	80-120			
LRB (LRB-L709127)						Prepared: 10/06/2023 Analyzed: 10/17/2023				
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

U Sample is Non-Detect.

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

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.

I* [Undefined]

* 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.



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.

October 17, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N OSA **Project Number - [none]**

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory, Inc. October 05, 2023. This project is associated with Origins project number Y310165-01.

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

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

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

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

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

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



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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B21@18'	Y310165-01	Soil	October 5, 2023 12:15	10/05/2023 16:05

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 - McKinstry 28N 21N 7C 2N OSA

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

ORIGINS

LABORATORY, INC

4310165

www.originslaboratory.com

Impacted

page 1 of 1

Client: Eagle Environmental (OSY)
 Address: 8000 W. 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0979
 Email Address: dcoloccia@eagle-environment.com
 Project Manager: D. Coloccia
 Project Name: McKinstry 28N 21N 7C 2N OSA
 Project Number: -
 Samples Collected By: HR

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions					
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	STEX, N		TPHs	EC	SAR	BTEX	PAHs*
SEP-BZ1E181	10/5/13	1215	3	X					X									* All PAHs except
																		benz(a)pyrene
																		benz(a)fluor.
																		benz(k)fluor.
																		* Metals
																		Arsenic
																		Barium
																		Selenium

Temp Received -

Date Results Needed

Relinquished By: U. Long Date: 10-5-13 Time: 1005
 Received By: [Signature] Date: 10/5/13 Time: 1005

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

Origins Laboratory, Inc.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310165

Client: Eagle

Checklist Completed by: EHS

Client Project ID: McKinstry 28N 21N 7C 2N

Date/time completed: 10/15/12

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

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

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

Thermometer ID: T004

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

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

[Signature]
 Reviewed by (Project Manager)

10/15/12
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Jordan A. Bynon, Project Manager

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 - McKinstry 28N 21N 7C 2N OSA

SEP-B21@18'

10/5/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310165-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.41		0.0982	mg/L	1	B3J0616	10/06/2023	10/10/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J0501	10/05/2023	10/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J0527	10/05/2023	10/05/2023	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	101 %		70-130			"	"	"	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B21@18'

10/5/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310165-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.2 %		70-130			B3J05 27	10/05/2023	10/05/2023	
Surrogate: 4-Bromofluorobenzene	98.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.64	0.499	meq/L	10	[CALC]		10/06/2023	10/09/2023	
Magnesium	7.48	0.823	"	"	"	"	"	"	
Sodium	29.0	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0529		10/05/2023	10/05/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

SEP-B21@18'

10/5/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310165-01 (Soil)

PAH by EPA 8270E

Pyrene	ND		0.020	mg/kg	1	B3J0529	10/05/2023	10/05/2023	U
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Surrogate: Fluorene-d10	95.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	138 %		60-130			"	"	"	S-07
Surrogate: Pyrene-d10	89.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	84.9 %		60-130			"	"	"	

SAR by 20B Saturated Paste

SAR	9.92		0.0100	SAR	1	B3J0612	10/06/2023	10/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.20		0.00500	mmhos/cm	1	B3J0620	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	2.83	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	83.4	0.042	0.25	"	"	"	"	"	
Selenium	0.566	0.103	0.25	"	"	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3J0501 - EPA 3550B										
Blank (B3J0501-BLK1)										
					Prepared: 10/05/2023 Analyzed: 10/05/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.5	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0501 - EPA 3550B

LCS (B3J0501-BS1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	64		"	49.8		128	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0501 - EPA 3550B

Matrix Spike (B3J0501-MS1)	Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023						
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1960	200	"	1000	817	114	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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
Batch B3J0501 - EPA 3550B										
Matrix Spike Dup (B3J0501-MSD1)					Source: Y310161-01					Prepared: 10/05/2023 Analyzed: 10/05/2023
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	4.70	35	
Residual Range Organics (C28-C40)	1920	200	"	1000	817	110	70-130	2.16	35	
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0527 - EPA 5030 (soil)

Blank (B3J0527-BLK1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

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	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0527 - EPA 5030 (soil)

LCS (B3J0527-BS1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100		93.1	70-130			
1,3,5-Trimethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Benzene	0.0892	0.00200	"	0.100		89.2	70-130			
Ethylbenzene	0.0914	0.00200	"	0.100		91.4	70-130			
Naphthalene	0.0816	0.00380	"	0.100		81.6	70-130			
Toluene	0.0904	0.00200	"	0.100		90.4	70-130			
o-Xylene	0.0884	0.00200	"	0.100		88.4	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0527 - EPA 5030 (soil)

Matrix Spike (B3J0527-MS1)	Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023						
1,2,4-Trimethylbenzene	0.0536	0.00200	mg/kg	0.100	ND	53.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0541	0.00200	"	0.100	ND	54.1	70-130			QM-07
Benzene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Ethylbenzene	0.0681	0.00200	"	0.100	ND	68.1	70-130			QM-07
Naphthalene	0.0504	0.00380	"	0.100	ND	50.4	70-130			QM-07
Toluene	0.0738	0.00200	"	0.100	ND	73.8	70-130			
o-Xylene	0.0668	0.00200	"	0.100	ND	66.8	70-130			QM-07
m,p-Xylene	0.134	0.00400	"	0.200	ND	66.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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 B3J0527 - EPA 5030 (soil)

Matrix Spike Dup (B3J0527-MSD1)	Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023						
1,2,4-Trimethylbenzene	0.0462	0.00200	mg/kg	0.100	ND	46.2	70-130	14.8	20	QM-07
1,3,5-Trimethylbenzene	0.0461	0.00200	"	0.100	ND	46.1	70-130	15.9	20	QM-07
Benzene	0.0736	0.00200	"	0.100	ND	73.6	70-130	4.49	20	
Ethylbenzene	0.0617	0.00200	"	0.100	ND	61.7	70-130	9.80	20	QM-07
Naphthalene	0.0441	0.00380	"	0.100	ND	44.1	70-130	13.4	20	QM-07
Toluene	0.0698	0.00200	"	0.100	ND	69.8	70-130	5.63	20	QM-07
o-Xylene	0.0605	0.00200	"	0.100	ND	60.5	70-130	9.87	20	QM-07
m,p-Xylene	0.121	0.00400	"	0.200	ND	60.7	70-130	9.70	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N 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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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0529 - EPA 3580

Blank (B3J0529-BLK1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		95.7	60-130			
Surrogate: Anthracene-d10	240		"	200		122	60-130			
Surrogate: Pyrene-d10	170		"	200		85.3	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.6	60-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0529 - EPA 3580

LCS (B3J0529-BS1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		93.8	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.9	70-130			
Anthracene	0.203	0.020	"	0.200		101	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200		96.5	70-130			
Benzo (a) pyrene	0.218	0.020	"	0.200		109	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.6	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.210	0.020	"	0.200		105	70-130			
Chrysene	0.202	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.230	0.020	"	0.200		115	70-130			
Fluorene	0.193	0.020	"	0.200		96.6	70-130			
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200		114	70-130			
Naphthalene	0.199	0.002	"	0.200		99.6	70-130			
Phenanthrene	0.197	0.020	"	0.200		98.3	70-130			
Pyrene	0.175	0.020	"	0.200		87.5	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.0	60-130			
Surrogate: Anthracene-d10	250		"	200		125	60-130			
Surrogate: Pyrene-d10	170		"	200		85.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B3J0529-MS1)

Source: Y310161-01

Prepared: 10/05/2023 Analyzed: 10/05/2023

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	96.1	70-130			
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130			
Anthracene	0.207	0.020	"	0.200	ND	103	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0529 - EPA 3580

Matrix Spike (B3J0529-MS1)		Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023					
Benzo (a) anthracene	0.207	0.005	mg/kg	0.200	0.002	102	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200	0.002	98.2	70-130			
Benzo (b) fluoranthene	0.162	0.020	"	0.200	0.0004	80.7	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.004	84.1	70-130			
Benzo (k) fluoranthene	0.194	0.020	"	0.200	0.002	96.0	70-130			
Chrysene	0.203	0.020	"	0.200	0.002	100	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	0.002	89.9	70-130			
Fluoranthene	0.184	0.020	"	0.200	0.004	90.3	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.4	70-130			
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200	0.004	87.8	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130			
Pyrene	0.258	0.020	"	0.200	0.006	126	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.2	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	260		"	200		130	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.4	60-130			

Matrix Spike Dup (B3J0529-MSD1)		Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	1.76	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130	5.15	20	
Acenaphthene	0.198	0.020	"	0.200	ND	99.1	70-130	1.59	20	
Anthracene	0.181	0.020	"	0.200	ND	90.7	70-130	13.1	20	
Benzo (a) anthracene	0.168	0.005	"	0.200	0.002	82.7	70-130	21.0	20	QR-02
Benzo (a) pyrene	0.192	0.020	"	0.200	0.002	95.1	70-130	3.17	20	
Benzo (b) fluoranthene	0.164	0.020	"	0.200	0.0004	81.5	70-130	1.06	20	
Benzo (g,h,i) perylene	0.161	0.020	"	0.200	0.004	78.4	70-130	6.74	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J0529 - EPA 3580

Matrix Spike Dup (B3J0529-MSD1)	Source: Y310161-01			Prepared: 10/05/2023 Analyzed: 10/05/2023						
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	0.002	96.5	70-130	0.563	20	
Chrysene	0.230	0.020	"	0.200	0.002	114	70-130	12.3	20	
Dibenz (a,h) anthracene	0.173	0.020	"	0.200	0.002	85.9	70-130	4.61	20	
Fluoranthene	0.211	0.020	"	0.200	0.004	104	70-130	13.4	20	
Fluorene	0.181	0.020	"	0.200	ND	90.7	70-130	7.09	20	
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	0.004	89.7	70-130	2.09	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	2.86	20	
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130	0.866	20	
Pyrene	0.248	0.020	"	0.200	0.006	121	70-130	3.94	20	
Surrogate: Fluorene-d10	180		ug/kg	200		92.3	60-130			
Surrogate: Anthracene-d10	240		"	200		121	60-130			
Surrogate: Pyrene-d10	240		"	200		119	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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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 B3J0612 - Saturated Paste Metals

Blank (B3J0612-BLK1)

Prepared: 10/06/2023 Analyzed: 10/09/2023

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

Duplicate (B3J0612-DUP1)

Source: Y310162-01

Prepared: 10/06/2023 Analyzed: 10/09/2023

SAR	ND	0.0100	SAR		6.86				200	U
Calcium PPM	154	10.0	mg/L		103			39.8	50	
Magnesium PPM	104	10.0	"		90.4			13.9	50	
Sodium PPM	401	10.0	"		395			1.41	50	

Batch B3J0616 - DTPA Sorbitol Preparation

Blank (B3J0616-BLK1)

Prepared: 10/06/2023 Analyzed: 10/10/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3J0616-DUP1)

Source: Y310162-01

Prepared: 10/06/2023 Analyzed: 10/10/2023

Boron	1.17	0.0991	mg/L		0.949			21.1	50	
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 Project: KMG - McKinstry 28N 21N 7C 2N OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J0620 - Saturated Paste pH/EC										
Blank (B3J0620-BLK1)					Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3J0620-DUP1)					Source: Y310162-01 Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	3.44	0.00500	mmhos/cm		3.24			6.21	25	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L709969 - 3050B										
MSD (L 81803-MSD-L709969)			Source: 81803			Prepared: 10/10/2023 Analyzed: 10/16/2023				
Barium	81	0.25	mg/Kg	4.65	118	0	75-125	22.9	80	I*
Selenium	4.99	0.25	"	4.65	0.877	88	75-125	6.4	80	
Arsenic	6.55	0.25	"	2.33	4.46	90	75-125	38	80	
MS (L 81803-MS-L709969)			Source: 81803			Prepared: 10/10/2023 Analyzed: 10/16/2023				
Barium	102	0.25	mg/Kg	4.91	118	0	75-125			I*
Selenium	5.32	0.25	"	4.91	0.877	90	75-125			
Arsenic	9.63	0.25	"	2.46	4.46	211	75-125			*
LCS (LCS-L709969)						Prepared: 10/10/2023 Analyzed: 10/16/2023				
Arsenic	2.34	0.25	mg/Kg	2.5		94	80-120			
Barium	4.87	0.25	"	5		97	80-120			
Selenium	5.08	0.25	"	5		102	80-120			
LRB (LRB-L709969)						Prepared: 10/10/2023 Analyzed: 10/16/2023				
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			

Origins Laboratory, Inc.



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Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

- U Sample is Non-Detect.
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- 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.
- I* [Undefined]
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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