



August 24, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. August 03, 2023. This project is associated with Origins project number Y308078-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3'	Y308078-01	Soil	August 3, 2023 8:42	08/03/2023 12:45
PW-B01@4'	Y308078-02	Soil	August 3, 2023 8:44	08/03/2023 12:45
PW-W01@2'	Y308078-03	Soil	August 3, 2023 8:46	08/03/2023 12:45
SEP-B01@3'	Y308078-04	Soil	August 3, 2023 8:52	08/03/2023 12:45
SEP-B02@5'	Y308078-05	Soil	August 3, 2023 8:54	08/03/2023 12:45
PW-BG01@3'	Y308078-06	Soil	August 3, 2023 9:00	08/03/2023 12:45
PW-BG01@6'	Y308078-07	Soil	August 3, 2023 9:02	08/03/2023 12:45
PW-BG02@3'	Y308078-08	Soil	August 3, 2023 9:04	08/03/2023 12:45
PW-BG02@6'	Y308078-09	Soil	August 3, 2023 9:06	08/03/2023 12:45
DL-B01@4'	Y308078-10	Soil	August 3, 2023 8:48	08/03/2023 12:45
DL-B02@4'	Y308078-11	Soil	August 3, 2023 8:50	08/03/2023 12:45

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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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LABORATORY, INC

4308073

www.originslaboratory.com

page 1 of 2

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. Coloccia
Project Name: Cooper 12-10A O SA
Project Number: —
Samples Collected By: AR

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, N	TPHs	TMGs	EC/pH		SAR	Boron
AST-B0103"	8-3-23	842	3	X					X			X	X	X	X			
Pu-B0104'		844																
Pu-B0102'		846																
SEP-B0103'		952																
SEP-B0205'		854																
Pu-B0105'		900																
Pu-B0106'		902																
Pu-B02023'		904																
Pu-B0206'		906																

Temp Received- 4

Date Results Needed

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

Origins Laboratory, Inc.

Bynon

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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LABORATORY, INC

4303073

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page 2 of 2

Client: Eagle Environmental (ENV)

Project Manager: D. Coloccia

Address: 8000 W. 44th Ave

Project Name: Cooper 12-10A O SA

Wheat Ridge CO 80033

Project Number: —

Telephone Number: 303-433-0479

Samples Collected By: ARC

Email Address: dcoloccia@eagle-enviro.com

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	
DL-B01E4'	8-3-23	949	3	X					X			1
DL-B02E4'	8-3-23	950	3	X					X			2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: LCB

Date: 8-3-23

Time: 1245

Received By: JS

Date: 8/3/23

Time: 1245

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

Temp Received: 4

Date Results Needed

Origins Laboratory, Inc.

Bynon

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: UB07078

Client: Eagle

Client Project ID: Cooper 12-10A O SA

Checklist Completed by: JSH/KAS

Shipped Via: HP

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

Date/time completed: 8/3/23

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)

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 NaAsO ₂ +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 (Project Manager) [Signature]

Date/Time Reviewed 8/3/23

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 - Cooper 12-10A O SA

AST-B01@3'

8/3/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y308078-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.162	0.0996	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	112 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

AST-B01@3'

8/3/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B3H03 22	08/03/2023	08/03/2023
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	28.1	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	15.1	0.823	"	"	"	"	"
Sodium	2.58	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.38	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.555	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.61	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-B01@4'

8/3/2023 8:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.129	0.0997	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	114 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H0322	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-B01@4'

8/3/2023 8:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	B3H03 22	08/03/2023	08/04/2023
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.922	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.558	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.14	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.700	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-W01@2'

8/3/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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8000 W 44th Ave
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Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-W01@2'

8/3/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B3H03 22	08/03/2023	08/03/2023
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.941	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.04	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.149	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.152	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

SEP-B01@3'

8/3/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.526	0.0991	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

SEP-B01@3'

8/3/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	B3H03 22	08/03/2023	08/03/2023
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.15	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.83	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.196	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.366	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

SEP-B02@5'

8/3/2023 8:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.288	0.0989	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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 - Cooper 12-10A O SA

SEP-B02@5'

8/3/2023 8:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			B3H03 22	08/03/2023	08/03/2023	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.97		pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	0.179		SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.299	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG01@3'

8/3/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198	0.0992	mg/L	1	B3H0415	08/04/2023	08/07/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.84	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.64	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.04		pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	1.26		SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	2.94	0.0964	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Barium	78.1	9.64	"	"	"	"	"
Cadmium	ND	0.0964	"	"	"	"	"
Copper	ND	9.64	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG01@3'

8/3/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-06 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.64	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Nickel	ND	9.64	"	"	"	"	"
Selenium	0.138	0.0964	"	"	"	"	"
Silver	ND	0.0964	"	"	"	"	"
Zinc	ND	96.4	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L700193	08/03/2023	08/23/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG01@6'

8/3/2023 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.574	0.0983	mg/L	1	B3H0415	08/04/2023	08/07/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.15	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	0.904	0.823	"	"	"	"	"
Sodium	1.56	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00		pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	1.10		SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.686	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	1.62	0.0892	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Barium	115	8.92	"	"	"	"	"
Cadmium	0.107	0.0892	"	"	"	"	"
Copper	ND	8.92	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG01@6'

8/3/2023 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.92	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Nickel	ND	8.92	"	"	"	"	"
Selenium	0.0981	0.0892	"	"	"	"	"
Silver	ND	0.0892	"	"	"	"	"
Zinc	ND	89.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L700193	08/03/2023	08/23/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG02@3'

8/3/2023 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.636	0.0992	mg/L	1	B3H0415	08/04/2023	08/07/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.25	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	3.66	0.823	"	"	"	"	"
Sodium	6.18	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.07		pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	3.60		SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	1.53	0.0875	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Barium	76.0	8.75	"	"	"	"	"
Cadmium	ND	0.0875	"	"	"	"	"
Copper	ND	8.75	"	"	"	"	"

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 - Cooper 12-10A O SA

PW-BG02@3'

8/3/2023 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-08 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.75	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Nickel	ND	8.75	"	"	"	"	"
Selenium	ND	0.0875	"	"	"	"	"
Silver	ND	0.0875	"	"	"	"	"
Zinc	ND	87.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L700193	08/03/2023	08/23/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG02@6'

8/3/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.292	0.0985	mg/L	1	B3H0415	08/04/2023	08/07/2023
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Metals by Saturated Paste by EPA 6010

Calcium	0.851	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	0.944	0.823	"	"	"	"	"
Sodium	1.47	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.01		pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	1.55		SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.403	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	1.24	0.0881	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Barium	50.9	8.81	"	"	"	"	"
Cadmium	ND	0.0881	"	"	"	"	"
Copper	ND	8.81	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG02@6'

8/3/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-09 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.81	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Nickel	ND	8.81	"	"	"	"	"
Selenium	ND	0.0881	"	"	"	"	"
Silver	ND	0.0881	"	"	"	"	"
Zinc	ND	88.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L700193	08/03/2023	08/23/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B01@4'

8/3/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.312	0.0999	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	
1,3,5-Trimethylbenzene	0.0720	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.0754	0.00200	"	"	"	"	"	
Toluene	0.00340	0.00200	"	"	"	"	"	
Xylenes, total	0.121	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.43	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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 - Cooper 12-10A O SA

DL-B01@4'

8/3/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.80	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	1.21	0.823	"	"	"	"	"
Sodium	0.578	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.021	0.002	mg/kg	1	B3H0328	08/03/2023	08/04/2023
2-Methylnaphthalene	0.036	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	U
Naphthalene	0.006	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	U
Surrogate: Fluorene-d10	98.1 %	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 - Cooper 12-10A O SA

DL-B01@4'

8/3/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-10 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	94.8 %	60-130	B3H0328	08/03/2023	08/04/2023
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	121 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.00	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.408	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.545	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	1.93	0.0931	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Barium	58.7	9.31	"	"	"	"	"
Cadmium	0.120	0.0931	"	"	"	"	"
Copper	ND	9.31	"	"	"	"	"
Lead	ND	9.31	"	"	"	"	"
Nickel	ND	9.31	"	"	"	"	"
Selenium	ND	0.0931	"	"	"	"	"

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 - Cooper 12-10A O SA

DL-B01@4'

8/3/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-10 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0931	mg/kg	10	B3H0321	08/03/2023	08/04/2023	
Zinc	ND		93.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L700193	08/03/2023	08/23/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B02@4'

8/3/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.131	0.0999	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H0323	08/03/2023	08/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	118 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00220	0.00200	mg/kg	1	B3H0322	08/03/2023	08/03/2023	
1,3,5-Trimethylbenzene	0.00312	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.06	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	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 - Cooper 12-10A O SA

DL-B02@4'

8/3/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.3 %	70-130	B3H03 22	08/03/2023	08/03/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.51	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0328	08/03/2023	08/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B02@4'

8/3/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-11 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3H0328	08/03/2023	08/04/2023	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	121 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.14	pH Units	1	B3H0420	08/04/2023	08/05/2023
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SAR by 20B Saturated Paste

SAR	0.121	SAR	1	B3H0410	08/04/2023	08/07/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.217	0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023
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Table 915 metals by EPA 6020B

Arsenic	1.90	0.0844	mg/kg	10	B3H0321	08/03/2023	08/04/2023
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B02@4'

8/3/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308078-11 (Soil)

Table 915 metals by EPA 6020B

Barium	63.2	8.44	mg/kg	10	B3H0321	08/03/2023	08/04/2023
Cadmium	0.106	0.0844	"	"	"	"	"
Copper	ND	8.44	"	"	"	"	"
Lead	ND	8.44	"	"	"	"	"
Nickel	ND	8.44	"	"	"	"	"
Selenium	ND	0.0844	"	"	"	"	"
Silver	ND	0.0844	"	"	"	"	"
Zinc	ND	84.4	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L700193	08/03/2023	08/23/2023
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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 - Cooper 12-10A O SA

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 B3H0322 - EPA 5030 (soil)										
Blank (B3H0322-BLK1)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
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	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3H0322 - EPA 5030 (soil)										
LCS (B3H0322-BS1)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100		99.7	70-130			
1,3,5-Trimethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Benzene	0.0903	0.00200	"	0.100		90.3	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100		96.0	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.0871	0.00200	"	0.100		87.1	70-130			
o-Xylene	0.0972	0.00200	"	0.100		97.2	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	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 - Cooper 12-10A O SA

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 B3H0322 - EPA 5030 (soil)

Matrix Spike (B3H0322-MS1)		Source: Y308078-01			Prepared: 08/03/2023 Analyzed: 08/03/2023					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100	ND	93.3	70-130			
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Ethylbenzene	0.0908	0.00200	"	0.100	0.000660	90.1	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.000700	103	70-130			
Toluene	0.0816	0.00200	"	0.100	ND	81.6	70-130			
o-Xylene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 - Cooper 12-10A O SA

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 B3H0322 - EPA 5030 (soil)										
Matrix Spike Dup (B3H0322-MSD1)			Source: Y308078-01		Prepared: 08/03/2023 Analyzed: 08/03/2023					
1,2,4-Trimethylbenzene	0.0907	0.00200	mg/kg	0.100	ND	90.7	70-130	2.83	20	
1,3,5-Trimethylbenzene	0.0896	0.00200	"	0.100	ND	89.6	70-130	3.55	20	
Benzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	1.54	20	
Ethylbenzene	0.0868	0.00200	"	0.100	0.000660	86.2	70-130	4.48	20	
Naphthalene	0.112	0.00380	"	0.100	0.000700	111	70-130	7.31	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	0.639	20	
o-Xylene	0.0889	0.00200	"	0.100	ND	88.9	70-130	3.34	20	
m,p-Xylene	0.174	0.00400	"	0.200	ND	87.2	70-130	3.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3H0323 - EPA 3550B

Blank (B3H0323-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		116	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3H0323 - EPA 3550B

LCS (B3H0323-BS1)

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

Diesel (C10-C28)	905	50.0	mg/kg	1000		90.5	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	68		"	49.8		136	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 - Cooper 12-10A O SA

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 B3H0323 - EPA 3550B

Matrix Spike (B3H0323-MS1)		Source: Y308078-01			Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	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 - Cooper 12-10A O SA

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 B3H0323 - EPA 3550B

Matrix Spike Dup (B3H0323-MSD1)		Source: Y308078-01			Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130	3.38	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	1.82	35	
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3H0321 - EPA 3050B

Blank (B3H0321-BLK1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

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 (B3H0321-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Arsenic	0.0523	0.000100	mg/kg	80-120
Barium	5.27	0.0100	"	80-120
Cadmium	0.0521	0.000100	"	80-120
Copper	0.566	0.0100	"	80-120
Lead	0.0530	0.0100	"	80-120
Nickel	0.0525	0.0100	"	80-120
Selenium	0.0473	0.000100	"	80-120
Silver	0.0544	0.000100	"	80-120
Zinc	0.551	0.100	"	80-120

Matrix Spike (B3H0321-MS1)

Source: Y308078-06

Prepared: 08/03/2023 Analyzed: 08/04/2023

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 - Cooper 12-10A O SA

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 B3H0321 - EPA 3050B

Matrix Spike (B3H0321-MS1)			Source: Y308078-06			Prepared: 08/03/2023 Analyzed: 08/04/2023				
Arsenic	7.77	0.0936	mg/kg		2.94		75-125			
Barium	555	9.36	"		78.1		75-125			
Cadmium	4.92	0.0936	"		0.0954		75-125			
Copper	56.3	9.36	"		5.35		75-125			
Lead	9.84	9.36	"		5.03		75-125			
Nickel	10.8	9.36	"		6.23		75-125			
Selenium	5.17	0.0936	"		0.138		75-125			
Silver	5.00	0.0936	"		0.0308		75-125			
Zinc	73.7	93.6	"		23.5		75-125			
Matrix Spike Dup (B3H0321-MSD1)			Source: Y308078-06			Prepared: 08/03/2023 Analyzed: 08/04/2023				
Arsenic	7.66	0.0852	mg/kg		2.94		75-125	1.49	20	
Barium	532	8.52	"		78.1		75-125	4.18	20	
Cadmium	4.62	0.0852	"		0.0954		75-125	6.37	20	
Copper	54.4	8.52	"		5.35		75-125	3.44	20	
Lead	9.51	8.52	"		5.03		75-125	3.36	20	
Nickel	10.7	8.52	"		6.23		75-125	0.645	20	
Selenium	4.82	0.0852	"		0.138		75-125	7.06	20	
Silver	4.70	0.0852	"		0.0308		75-125	6.24	20	
Zinc	72.8	85.2	"		23.5		75-125	1.17	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 - Cooper 12-10A O SA

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 B3H0328 - EPA 3580

Blank (B3H0328-BLK1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

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	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	240		"	200		120	60-130			

LCS (B3H0328-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200		105	70-130
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130
Acenaphthene	0.193	0.020	"	0.200		96.6	70-130
Anthracene	0.186	0.020	"	0.200		92.9	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 - Cooper 12-10A O SA

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 B3H0328 - EPA 3580

LCS (B3H0328-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		96.8	70-130
Benzo (a) pyrene	0.176	0.020	"	0.200		87.9	70-130
Benzo (b) fluoranthene	0.203	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.8	70-130
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.5	70-130
Chrysene	0.204	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130
Fluoranthene	0.193	0.020	"	0.200		96.5	70-130
Fluorene	0.197	0.020	"	0.200		98.4	70-130
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.2	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.195	0.020	"	0.200		97.6	70-130
Pyrene	0.209	0.020	"	0.200		104	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130
Surrogate: Anthracene-d10	190		"	200		94.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130
Surrogate: Pyrene-d10	210		"	200		104	60-130

Matrix Spike (B3H0328-MS1)

Source: Y308087-02

Prepared: 08/03/2023 Analyzed: 08/04/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	0.0009	102	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200	0.001	103	70-130
Acenaphthene	0.195	0.020	"	0.200	0.0004	97.1	70-130
Anthracene	0.186	0.020	"	0.200	ND	93.0	70-130
Benzo (a) anthracene	0.183	0.005	"	0.200	ND	91.4	70-130
Benzo (a) pyrene	0.176	0.020	"	0.200	ND	88.1	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	ND	91.5	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 - Cooper 12-10A O SA

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 B3H0328 - EPA 3580

Matrix Spike (B3H0328-MS1)		Source: Y308087-02			Prepared: 08/03/2023 Analyzed: 08/04/2023					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	ND	105	70-130			
Chrysene	0.210	0.020	"	0.200	ND	105	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.186	0.020	"	0.200	ND	93.1	70-130			
Fluorene	0.198	0.020	"	0.200	0.0003	99.0	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130			
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.202	0.020	"	0.200	0.0004	101	70-130			
Pyrene	0.252	0.020	"	0.200	ND	126	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	250		"	200		123	60-130			

Matrix Spike Dup (B3H0328-MSD1)		Source: Y308087-02			Prepared: 08/03/2023 Analyzed: 08/04/2023					
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	0.0009	101	70-130	0.466	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	0.001	101	70-130	1.44	20	
Acenaphthene	0.194	0.020	"	0.200	0.0004	96.9	70-130	0.214	20	
Anthracene	0.184	0.020	"	0.200	ND	92.1	70-130	0.948	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	ND	87.5	70-130	4.33	20	
Benzo (a) pyrene	0.170	0.020	"	0.200	ND	85.0	70-130	3.53	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130	2.69	20	
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	ND	100	70-130	9.23	20	
Benzo (k) fluoranthene	0.216	0.020	"	0.200	ND	108	70-130	2.67	20	
Chrysene	0.198	0.020	"	0.200	ND	99.2	70-130	5.55	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	109	70-130	5.71	20	
Fluoranthene	0.195	0.020	"	0.200	ND	97.7	70-130	4.85	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 - Cooper 12-10A O SA

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 B3H0328 - EPA 3580

Matrix Spike Dup (B3H0328-MSD1)		Source: Y308087-02			Prepared: 08/03/2023 Analyzed: 08/04/2023					
Fluorene	0.198	0.020	mg/kg	0.200	0.0003	99.0	70-130	0.0562	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	ND	93.2	70-130	4.41	20	
Naphthalene	0.203	0.002	"	0.200	ND	102	70-130	1.07	20	
Phenanthrene	0.198	0.020	"	0.200	0.0004	98.6	70-130	2.14	20	
Pyrene	0.199	0.020	"	0.200	ND	99.5	70-130	23.3	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			
Surrogate: Pyrene-d10	200		"	200		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 - Cooper 12-10A O SA

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 B3H0410 - Saturated Paste Metals

Blank (B3H0410-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

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

Duplicate (B3H0410-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

SAR	0.00		SAR	1.22		200	200
Calcium PPM	373	10.0	mg/L	328		13.0	50
Magnesium PPM	84.6	10.0	"	74.6		12.6	50
Sodium PPM	98.6	10.0	"	93.7		5.11	50

Batch B3H0415 - DTPA Sorbitol Preparation

Blank (B3H0415-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	ND	0.100	mg/L
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Duplicate (B3H0415-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	0.0516	0.0988	mg/L	0.0526		1.98	50
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Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0420 - Saturated Paste pH/EC										
Blank (B3H0420-BLK1)					Prepared: 08/04/2023 Analyzed: 08/05/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H0420-DUP1)					Source: Y308042-16 Prepared: 08/04/2023 Analyzed: 08/05/2023					
pH	6.70		pH Units		6.73			0.447	25	
Specific Conductance (EC)	3.57	0.00500	mmhos/cm		3.31			7.65	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 - Cooper 12-10A O SA

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 L700193 -										
DUP (L 95526-DUP)		Source: Y308078-07			Prepared: Analyzed: 08/23/2023					
Chromium, Hexavalent	ND	0.509	mg/Kg		<0.509	-		0	20	
MS (L 95526-MS)		Source: Y308078-07			Prepared: Analyzed: 08/23/2023					
Chromium, Hexavalent	32.6	2.52	mg/Kg	40.3	<1.23	81	75-125			
LCS (LCS)					Prepared: Analyzed: 08/23/2023					
Chromium, Hexavalent	6.71	0.5	mg/Kg	8		84	75-125			
LRB (LRB)					Prepared: Analyzed: 08/23/2023					
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 - Cooper 12-10A O SA

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 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



September 05, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. August 25, 2023. This project is associated with Origins project number Y308686-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01-1@6"	Y308686-01	Soil	August 25, 2023 13:50	08/25/2023 15:40
WH-BG03@3"	Y308686-02	Soil	August 25, 2023 13:56	08/25/2023 15:40
WH-BG04@3"	Y308686-03	Soil	August 25, 2023 13:59	08/25/2023 15:40
WH-BG05@3"	Y308686-04	Soil	August 25, 2023 14:02	08/25/2023 15:40
WH-BG06@3"	Y308686-05	Soil	August 25, 2023 14:08	08/25/2023 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 - Cooper 12-10A O SA

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

ORIGINS
LABORATORY, INC

4307026
Impacted

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental (oxy)
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: Accoloccia@eagle-enviro.com
Project Manager: D. Coloccia
Project Name: Cooper 12-10A O SA
Project Number: -
Samples Collected By: DK

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	EL/pH	
AST-1301-106"	8-25-23	1350	3	X					X				
W4-B403e.3"		1356	2								X	X	1
W4-B404e.3"		1359									X	X	2
W4-B405e.3"		1402											3
W4-B406e.3"		1408											4
													5
													6
													7
													8
													9
													10

Temp Received-

35

Date Results Needed

Relinquished By: LY

Date: 8-25-23

Time: 1540

Received By: DK

Date: 8-25-23

Time: 1540

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

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 - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43020810

Client: Eagle

Client Project ID: Cooper 12-10A OSA

Checklist Completed by: JBY/EMS

Shipped Via: HD

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

Date/time completed: 8/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.5 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

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

Reviewed by (Project Manager) UJH

8/25/23
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 - Cooper 12-10A O SA

AST-B01-1@6"

8/25/2023 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308686-01 (Soil)

pH in Soil by 9045D

pH	8.29		pH Units	1	B3I0125	ACN	09/01/2023	09/02/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.469	0.00500	mmhos/cm	"	"	ACN	"	"	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

WH-BG03@3"

8/25/2023 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308686-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.241	0.102	mg/L	1	B3H2810	KAP	08/28/2023	08/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.19	0.499	meq/L	10	[CALC]	KAP	08/26/2023	08/28/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.20		pH Units	1	B3H2605	ACN	08/26/2023	08/27/2023
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SAR by 20B Saturated Paste

SAR	0.218	0.0100	SAR	1	B3H2604	KAP	08/26/2023	08/28/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182	0.00500	mmhos/cm	1	B3H2605	ACN	08/26/2023	08/27/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

WH-BG04@3"
8/25/2023 1:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308686-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.258	0.102	mg/L	1	B3H2810	KAP	08/28/2023	08/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]	KAP	08/26/2023	08/28/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.20		pH Units	1	B3H2605	ACN	08/26/2023	08/27/2023
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SAR by 20B Saturated Paste

SAR	0.288	0.0100	SAR	1	B3H2604	KAP	08/26/2023	08/28/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.211	0.00500	mmhos/cm	1	B3H2605	ACN	08/26/2023	08/27/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

WH-BG05@3"

8/25/2023 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308686-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.257	0.102	mg/L	1	B3H2810	KAP	08/28/2023	08/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	KAP	08/26/2023	08/28/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.19		pH Units	1	B3H2605	ACN	08/26/2023	08/27/2023
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SAR by 20B Saturated Paste

SAR	0.261	0.0100	SAR	1	B3H2604	KAP	08/26/2023	08/28/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.187	0.00500	mmhos/cm	1	B3H2605	ACN	08/26/2023	08/27/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

WH-BG06@3"
8/25/2023 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308686-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3H2810	KAP	08/28/2023	08/30/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.73	0.499	meq/L	10	[CALC]	KAP	08/26/2023	08/28/2023
Magnesium	0.886	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.79		pH Units	1	B3H2605	ACN	08/26/2023	08/27/2023
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SAR by 20B Saturated Paste

SAR	0.107	0.0100	SAR	1	B3H2604	KAP	08/26/2023	08/28/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.458	0.00500	mmhos/cm	1	B3H2605	ACN	08/26/2023	08/27/2023
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Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3H2604 - Saturated Paste Metals

Blank (B3H2604-BLK1)

Prepared: 08/26/2023 Analyzed: 08/28/2023

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

Duplicate (B3H2604-DUP1)

Source: Y308686-02

Prepared: 08/26/2023 Analyzed: 08/28/2023

SAR	ND	0.0100	SAR	0.218		200
Calcium PPM	25.3	10.0	mg/L	23.8	6.07	50
Magnesium PPM	4.22	10.0	"	3.96	6.36	50
Sodium PPM	4.25	10.0	"	4.37	2.78	50

Batch B3H2810 - DTPA Sorbitol Preparation

Blank (B3H2810-BLK1)

Prepared: 08/28/2023 Analyzed: 08/30/2023

Boron	ND	0.100	mg/L
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Duplicate (B3H2810-DUP1)

Source: Y308686-02

Prepared: 08/28/2023 Analyzed: 08/30/2023

Boron	0.217	0.102	mg/L	0.241	10.1	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 - Cooper 12-10A O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2605 - Saturated Paste pH/EC										
Blank (B3H2605-BLK1)					Prepared: 08/26/2023 Analyzed: 08/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H2605-DUP1)					Source: Y308686-02 Prepared: 08/26/2023 Analyzed: 08/27/2023					
Specific Conductance (EC)	0.195	0.00500	mmhos/cm		0.182			7.05	25	
pH	8.23		pH Units		8.20			0.365	25	
Batch B3I0125 - Saturated Paste pH/EC										
Blank (B3I0125-BLK1)					Prepared: 09/01/2023 Analyzed: 09/02/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
pH	0.00		pH Units							
Duplicate (B3I0125-DUP1)					Source: Y308686-01 Prepared: 09/01/2023 Analyzed: 09/02/2023					
pH	8.02		pH Units		8.29			3.31	25	
Specific Conductance (EC)	0.352	0.00500	mmhos/cm		0.469			28.6	25	QR-DUP

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Cooper 12-10A O SA

Notes and Definitions

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

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.



October 17, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. October 05, 2023. This project is associated with Origins project number Y310173-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL-B01@6'	Y310173-01	Soil	October 5, 2023 15:40	10/05/2023 17:30
DL-N01@4'	Y310173-02	Soil	October 5, 2023 15:42	10/05/2023 17:30
DL-S01@4'	Y310173-03	Soil	October 5, 2023 15:44	10/05/2023 17:30
DL-E01@4'	Y310173-04	Soil	October 5, 2023 15:46	10/05/2023 17:30
DL-W01@4'	Y310173-05	Soil	October 5, 2023 15:48	10/05/2023 17:30

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 - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310173

Client: Eagle

Client Project ID: Cooper 12-10A

Checklist Completed by: EH5

Shipped Via: HD

Date/time completed: 10/5/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C 1 °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"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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.

Jan Butler
Reviewed by (Project Manager)

10/5/23
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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 - Cooper 12-10A O SA

DL-B01@6'
10/5/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	152	25.0	mg/kg	1	B3J0534	10/05/2023	10/06/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0525	0.00200	mg/kg	1	B3J0528	10/05/2023	10/06/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	73.5	5.00	"	25	"	"	10/05/2023	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " 10/06/2023
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 180 % 70-130 " " " S-GC

PAH by EPA 8270E

1-Methylnaphthalene	0.200	0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	
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Origins Laboratory, Inc.



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

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 - Cooper 12-10A O SA

DL-B01@6'

10/5/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-01 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	0.898		0.020	mg/kg	10	B3J0531	10/05/2023	10/09/2023	
Naphthalene	0.062		0.002	"	1	"	"	10/06/2023	

Surrogate: Fluorene-d10	93.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	111 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.613		0.00500	mmhos/cm	1	B3J0624	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	3.53	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	129	0.042	0.25	"	"	"	"	"	
Cadmium	0.131	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N01@4'
10/5/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0534	10/05/2023	10/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0120	0.00200	mg/kg	1	B3J0528	10/05/2023	10/05/2023	
1,3,5-Trimethylbenzene	0.00894	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00510	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.305	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 98.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
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Origins Laboratory, Inc.



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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 - Cooper 12-10A O SA

DL-N01@4'
10/5/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-02 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	0.006		0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	
Naphthalene	0.002		0.002	"	"	"	"	"	

Surrogate: Fluorene-d10	93.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	127 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.546		0.00500	mmhos/cm	1	B3J0624	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	1.58	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	70.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.117	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S01@4'

10/5/2023 3:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0534	10/05/2023	10/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0528	10/05/2023	10/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.223	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 98.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
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Origins Laboratory, Inc.



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

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 - Cooper 12-10A O SA

DL-S01@4'

10/5/2023 3:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-03 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	0.004		0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	92.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	109 %		60-130			"	"	"	
Surrogate: Pyrene-d10	121 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.928		0.00500	mmhos/cm	1	B3J0624	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	1.54	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	68	0.042	0.25	"	"	"	"	"	
Cadmium	0.105	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-E01@4'

10/5/2023 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0534	10/05/2023	10/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0528	10/05/2023	10/05/2023	U
1,3,5-Trimethylbenzene	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 110 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-E01@4'
10/5/2023 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-04 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.300		0.00500	mmhos/cm	1	B3J0624	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	1.38	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	60	0.042	0.25	"	"	"	"	"	
Cadmium	0.171	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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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 - Cooper 12-10A O SA

DL-W01@4'
10/5/2023 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0534	10/05/2023	10/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0528	10/05/2023	10/06/2023	U
1,3,5-Trimethylbenzene	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 110 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.3 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
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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 - Cooper 12-10A O SA

DL-W01@4'
10/5/2023 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310173-05 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3J0531	10/05/2023	10/06/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.333		0.00500	mmhos/cm	1	B3J0624	10/06/2023	10/07/2023	
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Total Metals by 6020B

Arsenic	1.47	0.0855	0.25	mg/Kg	5	L709969	10/10/2023	10/16/2023	
Barium	62.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.16	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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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 - Cooper 12-10A O SA

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 B3J0528 - EPA 5030 (soil)										
Blank (B3J0528-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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.2		70-130			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0528 - EPA 5030 (soil)

LCS (B3J0528-BS1)

Prepared: 10/05/2023 Analyzed: 10/05/2023

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0908	0.00200	"	0.100		90.8	70-130			
Benzene	0.0865	0.00200	"	0.100		86.5	70-130			
Ethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
Naphthalene	0.0935	0.00380	"	0.100		93.5	70-130			
Toluene	0.0897	0.00200	"	0.100		89.7	70-130			
o-Xylene	0.0934	0.00200	"	0.100		93.4	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

Origins Laboratory, Inc.



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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 - Cooper 12-10A O SA

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 B3J0528 - EPA 5030 (soil)										
Matrix Spike (B3J0528-MS1)		Source: Y310169-01			Prepared: 10/05/2023 Analyzed: 10/05/2023					
1,2,4-Trimethylbenzene	0.0783	0.00200	mg/kg	0.100	ND	78.3	70-130			
1,3,5-Trimethylbenzene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
Benzene	0.0597	0.00200	"	0.100	ND	59.7	70-130			QM-07
Ethylbenzene	0.0725	0.00200	"	0.100	ND	72.5	70-130			
Naphthalene	0.0808	0.00380	"	0.100	ND	80.8	70-130			
Toluene	0.0705	0.00200	"	0.100	ND	70.5	70-130			
o-Xylene	0.0719	0.00200	"	0.100	ND	71.9	70-130			
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0528 - EPA 5030 (soil)										
Matrix Spike Dup (B3J0528-MSD1)		Source: Y310169-01			Prepared: 10/05/2023 Analyzed: 10/05/2023					
1,2,4-Trimethylbenzene	0.0742	0.00200	mg/kg	0.100	ND	74.2	70-130	5.33	20	
1,3,5-Trimethylbenzene	0.0739	0.00200	"	0.100	ND	73.9	70-130	5.43	20	
Benzene	0.0567	0.00200	"	0.100	ND	56.7	70-130	5.19	20	QM-07
Ethylbenzene	0.0690	0.00200	"	0.100	ND	69.0	70-130	5.00	20	QM-07
Naphthalene	0.0774	0.00380	"	0.100	ND	77.4	70-130	4.27	20	
Toluene	0.0680	0.00200	"	0.100	ND	68.0	70-130	3.61	20	QM-07
o-Xylene	0.0682	0.00200	"	0.100	ND	68.2	70-130	5.20	20	QM-07
m,p-Xylene	0.138	0.00400	"	0.200	ND	68.9	70-130	5.37	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0534 - EPA 3550B										
Blank (B3J0534-BLK1)					Prepared: 10/05/2023 Analyzed: 10/06/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.0	50-150			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0534 - EPA 3550B

LCS (B3J0534-BS1)

Prepared: 10/05/2023 Analyzed: 10/06/2023

Diesel (C10-C28)	861	50.0	mg/kg	1000		86.1	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0534 - EPA 3550B

Matrix Spike (B3J0534-MS1)		Source: Y310173-01			Prepared: 10/05/2023 Analyzed: 10/06/2023					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	152	86.8	70-130			
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130			
Surrogate: o-Terphenyl	39		"	49.8		79.3	50-150			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0534 - EPA 3550B

Matrix Spike Dup (B3J0534-MSD1)		Source: Y310173-01			Prepared: 10/05/2023 Analyzed: 10/06/2023					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	152	87.9	70-130	1.06	35	
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	70-130	1.04	35	
Surrogate: o-Terphenyl	40		"	49.8		80.5	50-150			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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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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 B3J0531 - EPA 3580

Blank (B3J0531-BLK1)

Prepared: 10/05/2023 Analyzed: 10/06/2023

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	190		ug/kg	200		93.0	60-130			
Surrogate: Anthracene-d10	170		"	200		87.3	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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 B3J0531 - EPA 3580

LCS (B3J0531-BS1)

Prepared: 10/05/2023 Analyzed: 10/06/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.8	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200		94.6	70-130
Acenaphthene	0.191	0.020	"	0.200		95.7	70-130
Anthracene	0.185	0.020	"	0.200		92.4	70-130
Benzo (a) anthracene	0.200	0.005	"	0.200		100	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.8	70-130
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.2	70-130
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.1	70-130
Chrysene	0.195	0.020	"	0.200		97.3	70-130
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		97.2	70-130
Fluoranthene	0.155	0.020	"	0.200		77.6	70-130
Fluorene	0.183	0.020	"	0.200		91.3	70-130
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		96.8	70-130
Naphthalene	0.193	0.002	"	0.200		96.7	70-130
Phenanthrene	0.201	0.020	"	0.200		100	70-130
Pyrene	0.254	0.020	"	0.200		127	70-130

Surrogate: Fluorene-d10	190		ug/kg	200		93.2	60-130
Surrogate: Anthracene-d10	210		"	200		103	60-130
Surrogate: Pyrene-d10	260		"	200		130	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B3J0531-MS1)

Source: Y310172-10

Prepared: 10/05/2023 Analyzed: 10/06/2023

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	104	70-130
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	96.1	70-130
Acenaphthene	0.194	0.020	"	0.200	ND	97.0	70-130
Anthracene	0.180	0.020	"	0.200	0.0005	89.8	70-130

Origins Laboratory, Inc.



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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 - Cooper 12-10A O SA

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 B3J0531 - EPA 3580

Matrix Spike (B3J0531-MS1)		Source: Y310172-10			Prepared: 10/05/2023 Analyzed: 10/06/2023					
Benzo (a) anthracene	0.177	0.005	mg/kg	0.200	ND	88.4	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.8	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200	ND	90.7	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Chrysene	0.193	0.020	"	0.200	ND	96.5	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200	ND	95.1	70-130			
Fluoranthene	0.159	0.020	"	0.200	ND	79.7	70-130			
Fluorene	0.187	0.020	"	0.200	ND	93.4	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	100	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Pyrene	0.224	0.020	"	0.200	0.0005	111	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike Dup (B3J0531-MSD1)		Source: Y310172-10			Prepared: 10/05/2023 Analyzed: 10/06/2023					
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	97.0	70-130	7.31	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.0	70-130	2.97	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.5	70-130	0.483	20	
Anthracene	0.182	0.020	"	0.200	0.0005	90.8	70-130	1.11	20	
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	103	70-130	15.6	20	
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	107	70-130	7.21	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	10.3	20	
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	ND	100	70-130	0.135	20	

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 - Cooper 12-10A O SA

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 B3J0531 - EPA 3580

Matrix Spike Dup (B3J0531-MSD1)		Source: Y310172-10			Prepared: 10/05/2023 Analyzed: 10/06/2023					
Benzo (k) fluoranthene	0.223	0.020	mg/kg	0.200	ND	111	70-130	12.0	20	
Chrysene	0.195	0.020	"	0.200	ND	97.5	70-130	1.04	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.0	70-130	3.99	20	
Fluoranthene	0.155	0.020	"	0.200	ND	77.6	70-130	2.66	20	
Fluorene	0.187	0.020	"	0.200	ND	93.3	70-130	0.105	20	
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	100	70-130	0.162	20	
Naphthalene	0.198	0.002	"	0.200	ND	98.8	70-130	3.00	20	
Phenanthrene	0.197	0.020	"	0.200	ND	98.3	70-130	0.307	20	
Pyrene	0.238	0.020	"	0.200	0.0005	119	70-130	6.10	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.4	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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 - Cooper 12-10A O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J0624 - Saturated Paste pH/EC										
Blank (B3J0624-BLK1)					Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3J0624-DUP1)					Source: Y310164-01 Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	0.0549	0.00500	mmhos/cm		0.0673			20.3	25	

Origins Laboratory, Inc.



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 - Cooper 12-10A O SA

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*
Cadmium	0.675	0.25	"	0.465	0.225	97	75-125	4.4	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					
Arsenic	9.63	0.25	mg/Kg	2.46	4.46	211	75-125			*
Barium	102	0.25	"	4.91	118	0	75-125			I*
Cadmium	0.706	0.25	"	0.491	0.225	98	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			
Cadmium	0.51	0.25	"	0.5		102	80-120			
LRB (LRB-L709969)			Prepared: 10/10/2023 Analyzed: 10/16/2023							
Cadmium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			

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 - Cooper 12-10A O SA

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- 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.

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.



October 06, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. October 05, 2023. This project is associated with Origins project number Y310174-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	Y310174-01	Water	October 5, 2023 15:30	10/05/2023 17:30

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310174

Client: Eagle
Client Project ID: Cooper 12-10A

Checklist Completed by: EH5

Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Date/time completed: 10/5/23

Matrix(s) Received: (Check all that apply): EH5 Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 115 °C 1 °C 1 °C 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	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)

10/5/23
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 - Cooper 12-10A O SA

GW-01

10/5/2023 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310174-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	54.4	2.00	ug/L	1	B3J0535	JSM	10/05/2023	10/05/2023	
1,3,5-Trimethylbenzene	24.6	2.00	"	"	"	JSM	"	"	
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	44.9	1.00	"	"	"	JSM	"	"	
Naphthalene	21.4	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	130	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.7 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	82.1 %	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 - Cooper 12-10A O SA

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 B3J0535 - EPA 5030B (Water)										
Blank (B3J0535-BLK1)					Prepared: 10/05/2023 Analyzed: 10/05/2023					
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	55		"	62.5		88.3	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.1	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.

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 - Cooper 12-10A O SA

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 B3J0535 - EPA 5030B (Water)										
LCS (B3J0535-BS1)					Prepared: 10/05/2023 Analyzed: 10/05/2023					
1,2,4-Trimethylbenzene	40.7	2.00	ug/L	50.0		81.5	70-130			
1,3,5-Trimethylbenzene	41.2	2.00	"	50.0		82.4	70-130			
Benzene	42.7	1.00	"	50.0		85.4	70-130			
Ethylbenzene	42.2	1.00	"	50.0		84.3	70-130			
m,p-Xylene	89.7	2.00	"	100		89.7	70-130			
Naphthalene	50.7	2.00	"	50.0		101	70-130			
o-Xylene	48.8	1.00	"	50.0		97.6	70-130			
Toluene	42.4	1.00	"	50.0		84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.8	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 - Cooper 12-10A O SA

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 B3J0535 - EPA 5030B (Water)

Matrix Spike (B3J0535-MS1)		Source: Y310141-02			Prepared: 10/05/2023 Analyzed: 10/06/2023					
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	51.1	2.00	"	50.0	ND	102	70-130			
Benzene	54.2	1.00	"	50.0	ND	108	70-130			
Ethylbenzene	48.7	1.00	"	50.0	ND	97.4	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	46.9	2.00	"	50.0	ND	93.9	70-130			
o-Xylene	55.5	1.00	"	50.0	ND	111	70-130			
Toluene	49.2	1.00	"	50.0	ND	98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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 - Cooper 12-10A O SA

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 B3J0535 - EPA 5030B (Water)										
Matrix Spike Dup (B3J0535-MSD1)		Source: Y310141-02			Prepared: 10/05/2023 Analyzed: 10/06/2023					
1,2,4-Trimethylbenzene	52.7	2.00	ug/L	50.0	ND	105	70-130	4.56	20	
1,3,5-Trimethylbenzene	53.3	2.00	"	50.0	ND	107	70-130	4.22	20	
Benzene	56.3	1.00	"	50.0	ND	113	70-130	3.76	20	
Ethylbenzene	50.7	1.00	"	50.0	ND	101	70-130	3.98	20	
m,p-Xylene	109	2.00	"	100	ND	109	70-130	3.59	20	
Naphthalene	49.6	2.00	"	50.0	ND	99.1	70-130	5.47	20	
o-Xylene	57.7	1.00	"	50.0	ND	115	70-130	3.82	20	
Toluene	51.3	1.00	"	50.0	ND	103	70-130	4.30	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		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 - Cooper 12-10A O SA

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager



November 01, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. October 27, 2023. This project is associated with Origins project number Y310750-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL-B03@15'	Y310750-01	Soil	October 17, 2023 11:40	10/27/2023 16:35
DL-B04@15'	Y310750-02	Soil	October 17, 2023 11:42	10/27/2023 16:35
DL-B05@15'	Y310750-03	Soil	October 17, 2023 11:44	10/27/2023 16:35
DL-B06@15'	Y310750-04	Soil	October 17, 2023 11:46	10/27/2023 16:35
DL-N02@4'	Y310750-05	Soil	October 17, 2023 11:48	10/27/2023 16:35
DL-N02@6'	Y310750-06	Soil	October 17, 2023 11:50	10/27/2023 16:35
DL-E02@6'	Y310750-07	Soil	October 17, 2023 11:52	10/27/2023 16:35
DL-E03@6'	Y310750-08	Soil	October 17, 2023 11:54	10/27/2023 16:35
DL-E04@6'	Y310750-09	Soil	October 17, 2023 11:56	10/27/2023 16:35
DL-S02@6'	Y310750-10	Soil	October 17, 2023 11:58	10/27/2023 16:35
DL-S03@6'	Y310750-11	Soil	October 17, 2023 12:00	10/27/2023 16:35
DL-W02@6'	Y310750-12	Soil	October 17, 2023 12:02	10/27/2023 16:35
DL-W03@6'	Y310750-13	Soil	October 17, 2023 12:04	10/27/2023 16:35
DL-W04@6'	Y310750-14	Soil	October 17, 2023 12:06	10/27/2023 16:35

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 - Cooper 12-10A O SA

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 - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB10750

Client: Eagle

Client Project ID: Cooper 12-10A O SA

Checklist Completed by: JST/12/13

Shipped Via: TUD

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

Date/time completed: 10/27/13

Airbill #: N/A

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

Cooler Number/Temperature: 113 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) [Signature]

Date/Time Reviewed 10/27/13

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 - Cooper 12-10A O SA

DL-B03@15'
10/17/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 69.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 126 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-B03@15'

10/17/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.4 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	115 %	60-130			"		"	"
Surrogate: Pyrene-d10	94.2 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	91.5 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.90	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	4.73	0.0886	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	44.5	8.86	"	"	"	CIH	"	"
Cadmium	0.177	0.0886	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-B04@15'
10/17/2023 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 68.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 127 % 70-130 " " "
Surrogate: Toluene-d8 92.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-B04@15'
10/17/2023 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	92.5 %	60-130			B3J2731		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	109 %	60-130			"		"	"
Surrogate: Pyrene-d10	88.5 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	93.6 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.07	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	5.28	0.0901	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	47.4	9.01	"	"	"	CIH	"	"
Cadmium	0.318	0.0901	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-B05@15'
10/17/2023 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 71.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 127 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-B05@15'
10/17/2023 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	107 %	60-130			B3J2731		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	110 %	60-130			"		"	"
Surrogate: Pyrene-d10	93.9 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.77	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	5.39	0.0914	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	86.8	9.14	"	"	"	CIH	"	"
Cadmium	0.259	0.0914	"	"	"	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 - Cooper 12-10A O SA

DL-B06@15'
10/17/2023 11:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 72.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 129 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-B06@15'
10/17/2023 11:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-04 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	96.4 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	119 %	60-130			"		"	"
Surrogate: Pyrene-d10	84.2 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	96.0 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.10	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	5.14	0.0847	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	36.7	8.47	"	"	"	CIH	"	"
Cadmium	0.211	0.0847	"	"	"	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 - Cooper 12-10A O SA

DL-N02@4'
10/17/2023 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310750-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 72.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00242	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	3.78	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4 127 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	
2-Methylnaphthalene	0.003	0.002	"	"	"	agile	"	"	
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 101 % 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 - Cooper 12-10A O SA

DL-N02@4'
10/17/2023 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-05 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	110 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Pyrene-d10	103 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.994	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	3.96	0.0882	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	156	8.82	"	"	"	CIH	"	"
Cadmium	0.0908	0.0882	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-N02@6'
10/17/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	26.1	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 73.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	35.1	5.00	"	25	"	HK	"	10/28/2023	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 96.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.015	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	
2-Methylnaphthalene	0.037	0.002	"	"	"	agile	"	"	
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 105 % 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 - Cooper 12-10A O SA

DL-N02@6'

10/17/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-06 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	104 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Pyrene-d10	102 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	95.7 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.62	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	3.59	0.0921	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	126	9.21	"	"	"	CIH	"	"
Cadmium	0.165	0.0921	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-E02@6'
10/17/2023 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 74.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
Surrogate: Toluene-d8 94.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	
2-Methylnaphthalene	0.005	0.002	"	"	"	agile	"	"	
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-E02@6'

10/17/2023 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-07 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.5 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	108 %	60-130			"		"	"
Surrogate: Pyrene-d10	89.7 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	87.3 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.800	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	2.97	0.0880	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	63.8	8.80	"	"	"	CIH	"	"
Cadmium	ND	0.0880	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-E03@6'
10/17/2023 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 75.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-E03@6'

10/17/2023 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-08 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	95.6 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	106 %	60-130			"		"	"
Surrogate: Pyrene-d10	125 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.519	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	1.33	0.0944	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	45.9	9.44	"	"	"	CIH	"	"
Cadmium	ND	0.0944	"	"	"	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 - Cooper 12-10A O SA

DL-E04@6'
10/17/2023 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 74.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 119 % 70-130 " " "
Surrogate: Toluene-d8 95.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-E04@6'

10/17/2023 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-09 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	96.7 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	103 %	60-130			"		"	"
Surrogate: Pyrene-d10	99.3 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	3.27	0.0973	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	193	9.73	"	"	"	CIH	"	"
Cadmium	0.114	0.0973	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-S02@6'
10/17/2023 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 71.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
Surrogate: Toluene-d8 95.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-S02@6'

10/17/2023 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-10 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	93.9 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	106 %	60-130			"		"	"
Surrogate: Pyrene-d10	110 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	84.1 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.87	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	2.98	0.0946	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	113	9.46	"	"	"	CIH	"	"
Cadmium	0.151	0.0946	"	"	"	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 - Cooper 12-10A O SA

DL-S03@6'

10/17/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 76.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 95.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-S03@6'

10/17/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-11 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B3J2731		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	101 %	60-130			"		"	"
Surrogate: Pyrene-d10	99.5 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.98	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	2.64	0.0922	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	102	9.22	"	"	"	CIH	"	"
Cadmium	ND	0.0922	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-W02@6'
10/17/2023 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-12 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 72.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 119 % 70-130 " " "
Surrogate: Toluene-d8 95.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-W02@6'
10/17/2023 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-12 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	91.1 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	106 %	60-130			"		"	"
Surrogate: Pyrene-d10	90.0 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.20	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	3.07	0.0965	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	113	9.65	"	"	"	CIH	"	"
Cadmium	0.143	0.0965	"	"	"	CIH	"	"

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 - Cooper 12-10A O SA

DL-W03@6'
10/17/2023 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-13 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 73.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2739	HK	10/27/2023	10/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	14.4	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "
Surrogate: Toluene-d8 88.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 138 % 70-130 " " " S-GC

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

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 - Cooper 12-10A O SA

DL-W03@6'
10/17/2023 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-13 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B3J2731		10/27/2023	10/28/2023
Surrogate: Anthracene-d10	106 %	60-130			"		"	"
Surrogate: Pyrene-d10	114 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.82	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	3.05	0.0894	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	111	8.94	"	"	"	CIH	"	"
Cadmium	0.134	0.0894	"	"	"	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 - Cooper 12-10A O SA

DL-W04@6'
10/17/2023 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310750-14 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2732	ZZZ	10/27/2023	10/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 69.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.556	0.0500	mg/kg	25	B3J2739	HK	10/27/2023	10/28/2023	
1,3,5-Trimethylbenzene	0.342	0.00200	"	1	"	HK	"	10/28/2023	
Ethylbenzene	0.135	0.00200	"	"	"	HK	"	"	
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	0.715	0.00200	"	"	"	HK	"	"	
Gasoline Range Hydrocarbons	81.7	5.00	"	25	"	HK	"	10/28/2023	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " 10/28/2023
Surrogate: Toluene-d8 95.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 145 % 70-130 " " " S-GC

PAH by EPA 8270E

1-Methylnaphthalene	0.035	0.002	mg/kg	1	B3J2731	agile	10/27/2023	10/28/2023	
2-Methylnaphthalene	0.086	0.002	"	"	"	agile	"	"	
Naphthalene	0.021	0.002	"	"	"	agile	"	"	

Surrogate: Fluorene-d10 103 % 60-130 " " "
Surrogate: Anthracene-d10 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 - Cooper 12-10A O SA

DL-W04@6'

10/17/2023 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310750-14 (Soil)

PAH by EPA 8270E

Surrogate: Pyrene-d10	104 %	60-130			B3J27 31		10/27/2023	10/28/2023
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36	0.00500	mmhos/cm	1	B3J2808	ACN	10/28/2023	10/29/2023
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Table 915 metals by EPA 6020B

Arsenic	4.06	0.0945	mg/kg	10	B3J3004	CIH	10/30/2023	10/31/2023
Barium	146	9.45	"	"	"	CIH	"	"
Cadmium	0.142	0.0945	"	"	"	CIH	"	"

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2732 - EPA 3550B										
Blank (B3J2732-BLK1)					Prepared: 10/27/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		75.6	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 - Cooper 12-10A O SA

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 B3J2732 - EPA 3550B										
LCS (B3J2732-BS1)					Prepared: 10/27/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	984	50.0	mg/kg	1000		98.4	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.9	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 - Cooper 12-10A O SA

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 B3J2732 - EPA 3550B

Matrix Spike (B3J2732-MS1)		Source: Y310750-01			Prepared: 10/27/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	956	50.0	mg/kg	1000	ND	95.6	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.4	50-150			

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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2732 - EPA 3550B

Matrix Spike Dup (B3J2732-MSD1)		Source: Y310750-01			Prepared: 10/27/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130	0.299	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	0.142	35	
Surrogate: o-Terphenyl	46		"	49.8		92.7	50-150			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2739 - EPA 5030 (soil)										
Blank (B3J2739-BLK1)					Prepared: 10/27/2023 Analyzed: 10/27/2023					
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		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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 - Cooper 12-10A O SA

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 B3J2739 - EPA 5030 (soil)

LCS (B3J2739-BS1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

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	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2739 - EPA 5030 (soil)

Matrix Spike (B3J2739-MS1)		Source: Y310600-01			Prepared: 10/27/2023 Analyzed: 10/27/2023					
1,2,4-Trimethylbenzene	0.0809	0.00200	mg/kg	0.100	0.00510	75.8	70-130			
1,3,5-Trimethylbenzene	0.0791	0.00200	"	0.100	0.00148	77.6	70-130			
Benzene	0.0825	0.00200	"	0.100	0.000880	81.6	70-130			
Ethylbenzene	0.0744	0.00200	"	0.100	0.000880	73.5	70-130			
Naphthalene	0.107	0.00380	"	0.100	0.0135	93.0	70-130			
Toluene	0.0753	0.00200	"	0.100	0.00274	72.5	70-130			
o-Xylene	0.0826	0.00200	"	0.100	0.00264	79.9	70-130			
m,p-Xylene	0.155	0.00400	"	0.200	0.00428	75.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2739 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2739-MSD1)		Source: Y310600-01		Prepared: 10/27/2023 Analyzed: 10/27/2023						
1,2,4-Trimethylbenzene	0.0765	0.00200	mg/kg	0.100	0.00510	71.4	70-130	5.57	20	
1,3,5-Trimethylbenzene	0.0753	0.00200	"	0.100	0.00148	73.8	70-130	4.87	20	
Benzene	0.0807	0.00200	"	0.100	0.000880	79.8	70-130	2.23	20	
Ethylbenzene	0.0706	0.00200	"	0.100	0.000880	69.7	70-130	5.24	20	QM-07
Naphthalene	0.106	0.00380	"	0.100	0.0135	92.2	70-130	0.811	20	
Toluene	0.0716	0.00200	"	0.100	0.00274	68.9	70-130	4.98	20	QM-07
o-Xylene	0.0782	0.00200	"	0.100	0.00264	75.6	70-130	5.45	20	
m,p-Xylene	0.147	0.00400	"	0.200	0.00428	71.4	70-130	5.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	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 - Cooper 12-10A O SA

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 B3J3004 - EPA 3050B

Blank (B3J3004-BLK1)

Prepared: 10/30/2023 Analyzed: 10/31/2023

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 (B3J3004-BS1)

Prepared: 10/30/2023 Analyzed: 10/31/2023

Arsenic	0.0478	0.000100	mg/kg	0.0500	95.6	80-120
Barium	4.90	0.0100	"	5.00	97.9	80-120
Cadmium	0.0500	0.000100	"	0.0500	100	80-120
Copper	0.513	0.0100	"	0.500	103	80-120
Lead	0.0492	0.0100	"	0.0500	98.5	80-120
Nickel	0.0518	0.0100	"	0.0500	104	80-120
Selenium	0.0470	0.000100	"	0.0500	94.1	80-120
Silver	0.0511	0.000100	"	0.0500	102	80-120
Zinc	0.493	0.100	"	0.500	98.6	80-120

Matrix Spike (B3J3004-MS1)

Source: Y310735-01

Prepared: 10/30/2023 Analyzed: 10/31/2023

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 - Cooper 12-10A O SA

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 B3J3004 - EPA 3050B										
Matrix Spike (B3J3004-MS1)		Source: Y310735-01			Prepared: 10/30/2023 Analyzed: 10/31/2023					
Arsenic	5.26	0.0932	mg/kg	4.66	1.18	87.7	75-125			
Barium	462	9.32	"	466	9.06	97.3	75-125			
Cadmium	4.65	0.0932	"	4.66	0.0178	99.5	75-125			
Copper	48.9	9.32	"	46.6	2.14	100	75-125			
Lead	6.16	9.32	"	4.66	1.88	91.8	75-125			
Nickel	6.31	9.32	"	4.66	1.43	105	75-125			
Selenium	4.48	0.0932	"	4.66	0.0391	95.3	75-125			
Silver	4.78	0.0932	"	4.66	0.00978	103	75-125			
Zinc	56.0	93.2	"	46.6	9.24	100	75-125			
Matrix Spike Dup (B3J3004-MSD1)		Source: Y310735-01			Prepared: 10/30/2023 Analyzed: 10/31/2023					
Arsenic	5.34	0.0950	mg/kg	4.75	1.18	87.7	75-125	1.49	20	
Barium	464	9.50	"	475	9.06	95.9	75-125	0.481	20	
Cadmium	4.69	0.0950	"	4.75	0.0178	98.4	75-125	0.831	20	
Copper	48.5	9.50	"	47.5	2.14	97.6	75-125	0.891	20	
Lead	6.05	9.50	"	4.75	1.88	87.8	75-125	1.73	20	
Nickel	6.25	9.50	"	4.75	1.43	102	75-125	0.867	20	
Selenium	4.66	0.0950	"	4.75	0.0391	97.4	75-125	4.06	20	
Silver	4.76	0.0950	"	4.75	0.00978	100	75-125	0.605	20	
Zinc	55.3	95.0	"	47.5	9.24	97.0	75-125	1.33	20	

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3J2731 - EPA 3580

Blank (B3J2731-BLK1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

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	230		ug/kg	200		113	60-130			
Surrogate: Anthracene-d10	180		"	200		88.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

LCS (B3J2731-BS1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200		91.9	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		93.9	70-130			
Acenaphthene	0.196	0.020	"	0.200		97.8	70-130			
Anthracene	0.191	0.020	"	0.200		95.3	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 - Cooper 12-10A O SA

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 B3J2731 - EPA 3580

LCS (B3J2731-BS1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		95.0	70-130
Benzo (a) pyrene	0.211	0.020	"	0.200		105	70-130
Benzo (b) fluoranthene	0.195	0.020	"	0.200		97.4	70-130
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		105	70-130
Benzo (k) fluoranthene	0.172	0.020	"	0.200		86.0	70-130
Chrysene	0.212	0.020	"	0.200		106	70-130
Dibenz (a,h) anthracene	0.232	0.020	"	0.200		116	70-130
Fluoranthene	0.194	0.020	"	0.200		96.8	70-130
Fluorene	0.206	0.020	"	0.200		103	70-130
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200		100	70-130
Naphthalene	0.188	0.002	"	0.200		93.8	70-130
Phenanthrene	0.194	0.020	"	0.200		96.9	70-130
Pyrene	0.206	0.020	"	0.200		103	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		95.8	60-130
Surrogate: Anthracene-d10	180		"	200		91.9	60-130
Surrogate: Pyrene-d10	200		"	200		98.0	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B3J2731-MS1)

Source: Y310739-01

Prepared: 10/27/2023 Analyzed: 10/27/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.004	101	70-130
2-Methylnaphthalene	0.214	0.002	"	0.200	0.006	104	70-130
Acenaphthene	0.211	0.020	"	0.200	0.0004	105	70-130
Anthracene	0.214	0.020	"	0.200	0.003	106	70-130
Benzo (a) anthracene	0.245	0.005	"	0.200	0.011	117	70-130
Benzo (a) pyrene	0.253	0.020	"	0.200	0.012	120	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.010	102	70-130
Benzo (g,h,i) perylene	0.246	0.020	"	0.200	0.021	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 - Cooper 12-10A O SA

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 B3J2731 - EPA 3580

Matrix Spike (B3J2731-MS1)		Source: Y310739-01			Prepared: 10/27/2023 Analyzed: 10/27/2023					
Benzo (k) fluoranthene	0.222	0.020	mg/kg	0.200	0.005	108	70-130			
Chrysene	0.268	0.020	"	0.200	0.011	129	70-130			
Dibenz (a,h) anthracene	0.240	0.020	"	0.200	0.002	119	70-130			
Fluoranthene	0.267	0.020	"	0.200	0.021	123	70-130			
Fluorene	0.216	0.020	"	0.200	0.005	105	70-130			
Indeno (1,2,3-cd) pyrene	0.253	0.020	"	0.200	0.016	118	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	97.1	70-130			
Phenanthrene	0.215	0.020	"	0.200	0.010	102	70-130			
Pyrene	0.226	0.020	"	0.200	0.018	104	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	170		"	200		85.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B3J2731-MSD1)		Source: Y310739-01			Prepared: 10/27/2023 Analyzed: 10/28/2023					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.004	98.9	70-130	2.47	20	
2-Methylnaphthalene	0.212	0.002	"	0.200	0.006	103	70-130	0.964	20	
Acenaphthene	0.211	0.020	"	0.200	0.0004	105	70-130	0.238	20	
Anthracene	0.234	0.020	"	0.200	0.003	116	70-130	8.83	20	
Benzo (a) anthracene	0.215	0.005	"	0.200	0.011	102	70-130	13.0	20	
Benzo (a) pyrene	0.211	0.020	"	0.200	0.012	99.4	70-130	18.0	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	0.010	85.9	70-130	16.4	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.021	90.1	70-130	20.0	20	
Benzo (k) fluoranthene	0.183	0.020	"	0.200	0.005	89.1	70-130	19.1	20	
Chrysene	0.263	0.020	"	0.200	0.011	126	70-130	1.86	20	
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.002	113	70-130	5.29	20	
Fluoranthene	0.249	0.020	"	0.200	0.021	114	70-130	6.84	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 - Cooper 12-10A O SA

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 B3J2731 - EPA 3580

Matrix Spike Dup (B3J2731-MSD1)		Source: Y310739-01			Prepared: 10/27/2023 Analyzed: 10/28/2023					
Fluorene	0.220	0.020	mg/kg	0.200	0.005	107	70-130	1.70	20	
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	0.016	101	70-130	14.6	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.5	70-130	0.364	20	
Phenanthrene	0.223	0.020	"	0.200	0.010	107	70-130	3.97	20	
Pyrene	0.192	0.020	"	0.200	0.018	87.2	70-130	15.9	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	220		"	200		110	60-130			
Surrogate: Pyrene-d10	160		"	200		80.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	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 - Cooper 12-10A O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2808 - Saturated Paste pH/EC										
Blank (B3J2808-BLK1)					Prepared: 10/28/2023 Analyzed: 10/29/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3J2808-DUP1)					Source: Y310737-01 Prepared: 10/28/2023 Analyzed: 10/29/2023					
Specific Conductance (EC)	0.429	0.00500	mmhos/cm		0.407			5.15	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 - Cooper 12-10A O SA

Notes and Definitions

U Sample is Non-Detect.

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

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

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.



October 30, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. October 27, 2023. This project is associated with Origins project number Y310754-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-02	Y310754-01	Water	October 27, 2023 12:08	10/27/2023 16:35

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB10754

Client: Eagle

Client Project ID: Cooper 12-10A

Checklist Completed by: JPM/ELH

Shipped Via: TLV

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

Date/time completed: 10/27/12

Airbill #: N/A

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

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

Thermometer ID: 7064

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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.

Reviewed by (Project Manager) JPM

Date/Time Reviewed 10/27/12

Origins Laboratory, Inc.

Jen Pellegrini

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 - Cooper 12-10A O SA

GW-02

10/27/2023 12:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310754-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	33.1	2.00	ug/L	1	B3J2637	JSM	10/27/2023	10/27/2023	
1,3,5-Trimethylbenzene	28.0	2.00	"	"	"	JSM	"	"	
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	8.96	1.00	"	"	"	JSM	"	"	
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	80.9	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

105 % 70-130
96.8 % 70-130
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 - Cooper 12-10A O SA

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 B3J2637 - EPA 5030B (Water)

Blank (B3J2637-BLK1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

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	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.2	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.

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 - Cooper 12-10A O SA

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 B3J2637 - EPA 5030B (Water)										
LCS (B3J2637-BS1)					Prepared: 10/26/2023 Analyzed: 10/27/2023					
1,2,4-Trimethylbenzene	50.0	2.00	ug/L	50.0		100	70-130			
1,3,5-Trimethylbenzene	50.2	2.00	"	50.0		100	70-130			
Benzene	55.9	1.00	"	50.0		112	70-130			
Ethylbenzene	50.6	1.00	"	50.0		101	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	46.2	2.00	"	50.0		92.3	70-130			
o-Xylene	52.6	1.00	"	50.0		105	70-130			
Toluene	52.1	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 - Cooper 12-10A O SA

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 B3J2637 - EPA 5030B (Water)

Matrix Spike (B3J2637-MS1)		Source: Y310717-21			Prepared: 10/26/2023 Analyzed: 10/27/2023					
1,2,4-Trimethylbenzene	44.2	2.00	ug/L	50.0	ND	88.5	70-130			
1,3,5-Trimethylbenzene	44.1	2.00	"	50.0	ND	88.2	70-130			
Benzene	54.8	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	47.8	1.00	"	50.0	0.420	94.7	70-130			
m,p-Xylene	96.1	2.00	"	100	0.700	95.4	70-130			
Naphthalene	45.4	2.00	"	50.0	0.140	90.5	70-130			
o-Xylene	50.0	1.00	"	50.0	ND	100	70-130			
Toluene	49.2	1.00	"	50.0	ND	98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		106	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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 - Cooper 12-10A O SA

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 B3J2637 - EPA 5030B (Water)

Matrix Spike Dup (B3J2637-MSD1)		Source: Y310717-21			Prepared: 10/26/2023 Analyzed: 10/27/2023					
1,2,4-Trimethylbenzene	45.4	2.00	ug/L	50.0	ND	90.8	70-130	2.57	20	
1,3,5-Trimethylbenzene	45.7	2.00	"	50.0	ND	91.4	70-130	3.56	20	
Benzene	56.0	1.00	"	50.0	ND	112	70-130	2.20	20	
Ethylbenzene	51.0	1.00	"	50.0	0.420	101	70-130	6.44	20	
m,p-Xylene	101	2.00	"	100	0.700	101	70-130	5.25	20	
Naphthalene	47.9	2.00	"	50.0	0.140	95.5	70-130	5.40	20	
o-Xylene	53.0	1.00	"	50.0	ND	106	70-130	5.87	20	
Toluene	50.4	1.00	"	50.0	ND	101	70-130	2.51	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.8	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 - Cooper 12-10A O SA

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager



December 26, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. December 04, 2023. This project is associated with Origins project number Y312056-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL-N03@6'	Y312056-01	Soil	December 4, 2023 8:20	12/04/2023 14:04
DL-W05@6'	Y312056-02	Soil	December 4, 2023 8:15	12/04/2023 14:04
DL-E05@6'	Y312056-03	Soil	December 4, 2023 8:10	12/04/2023 14:04
DL-N04@5'	Y312056-04	Soil	December 4, 2023 9:00	12/04/2023 14:04
DL-N05@5'	Y312056-05	Soil	December 4, 2023 9:05	12/04/2023 14:04
DL-N06@5'	Y312056-06	Soil	December 4, 2023 9:10	12/04/2023 14:04
DL-N07@5'	Y312056-07	Soil	December 4, 2023 9:15	12/04/2023 14:04
DL-W06@5'	Y312056-08	Soil	December 4, 2023 9:20	12/04/2023 14:04
DL-W07@5'	Y312056-09	Soil	December 4, 2023 9:25	12/04/2023 14:04
DL-S04@5'	Y312056-10	Soil	December 4, 2023 9:30	12/04/2023 14:04
DL-S05@5'	Y312056-11	Soil	December 4, 2023 9:35	12/04/2023 14:04
DL-S06@5'	Y312056-12	Soil	December 4, 2023 9:40	12/04/2023 14:04
DL-S07@5'	Y312056-13	Soil	December 4, 2023 9:45	12/04/2023 14:04
DL-B07@15'	Y312056-14	Soil	December 4, 2023 9:50	12/04/2023 14:04

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL-B08@15'	Y312056-15	Soil	December 4, 2023 9:55	12/04/2023 14:04
DL-B09@15'	Y312056-16	Soil	December 4, 2023 10:00	12/04/2023 14:04
DL-B10@15'	Y312056-17	Soil	December 4, 2023 10:05	12/04/2023 14:04
DL-B11@15'	Y312056-18	Soil	December 4, 2023 10:10	12/04/2023 14:04
DL-B12@15'	Y312056-19	Soil	December 4, 2023 10:15	12/04/2023 14:04
DL-B13@15'	Y312056-20	Soil	December 4, 2023 10:20	12/04/2023 14:04
PW-BG03@15'	Y312056-21	Soil	December 4, 2023 10:30	12/04/2023 14:04
PW-BG04@15'	Y312056-22	Soil	December 4, 2023 10:50	12/04/2023 14:04

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 - Cooper 12-10A O SA

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

ORIGINS
LABORATORY, INC

Client: Eagle Environmental (LLC)
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0474
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia
Project Name: Cooper 12-10A O SA
Project Number: 4312056
Samples Collected By: BL

Temp Received: 5.8 Date Results Needed: 12/4/23

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	TEX, N	2MB's	TPH	1,2-Methyl		PC	Arsenic	Barium
DL-N03@6'	12/4/23	820	3	X					X				X	X	X	X	X	X	
DL-W05@6'		815	1										X	X	X	X	X	X	
DL-E05@6'		810	1										X	X	X	X	X	X	
DL-N04@5'		900	1										X	X	X	X	X	X	
DL-N05@5'		905	1										X	X	X	X	X	X	
DL-N06@5'		910	1										X	X	X	X	X	X	
DL-N07@5'		915	1										X	X	X	X	X	X	
DL-W06@5'		920	1										X	X	X	X	X	X	
DL-W07@5'		925	1										X	X	X	X	X	X	
DL-S14@5'		930	1										X	X	X	X	X	X	

Relinquished By: BL Date: 12/4/23 Time: 1404
Received By: EHS Date: 12/4/23 Time: 1404

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

Origins Laboratory, Inc.

Bynon

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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

ORIGINS
LABORATORY, INC

Impacted
4312056

www.originslaboratory.com

page 2 of 3

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

Project Manager: D. Coloccia
Project Name: Cooper 12-10A O SA
Project Number: -
Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis						Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa Canister #	Other	TEX-N	TMB-S	TPH	1/2-methyl	EC	
DL-505e51	12/1/23	935	3	X				X			X	X	X	X	X	X
DL-506e51		940									X	X	X	X	X	X
DL-507e51		945									X	X	X	X	X	X
DL-807e51		950									X	X	X	X	X	X
DL-808e51		955									X	X	X	X	X	X
DL-809e51		1000									X	X	X	X	X	X
DL-810e51		1005									X	X	X	X	X	X
DL-811e51		1010									X	X	X	X	X	X
DL-812e51		1015									X	X	X	X	X	X
DL-813e51		1020									X	X	X	X	X	X
Relinquished By: <u>BL</u>	Date: <u>12/4/23</u>	Time: <u>1404</u>	Received By: <u>CHS</u>	Date: <u>12/4/23</u>	Time: <u>1404</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard										

Temp Received: 5.8

Date Results Needed

Origins Laboratory, Inc.

Bynon

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4312056

Client: Eagle

Client Project ID: Cooper 12-10A

Checklist Completed by: EH

Shipped Via: HO

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

Date/time completed: 12/4/12

Airbill #: N/A

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

Cooler Number/Temperature: 115.8 °C 1 °C 1 °C (Describe) 1 °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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]
Reviewed by (Project Manager)

12/4/12
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 - Cooper 12-10A O SA

DL-N03@6'

12/4/2023 8:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 " " "
Surrogate: Toluene-d8 99.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N03@6'

12/4/2023 8:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-01 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	107 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.59		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	1.24	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	78.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.103	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-W05@6'

12/4/2023 8:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 110 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-W05@6'

12/4/2023 8:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-02 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.30		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	1.46	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	53	0.042	0.25	"	"	"	"	"	
Cadmium	0.0411	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-E05@6'

12/4/2023 8:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 110 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-E05@6'

12/4/2023 8:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-03 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	2.08	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	130	0.042	0.25	"	"	"	"	"	
Cadmium	0.121	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N04@5'

12/4/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	26.4	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.133	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	
1,3,5-Trimethylbenzene	0.0859	0.00200	"	"	"	"	"	
Ethylbenzene	0.00364	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0491	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.26	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.027	0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	
2-Methylnaphthalene	0.070	0.002	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N04@5'

12/4/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-04 (Soil)

PAH by EPA 8270E

Naphthalene	0.013		0.002	mg/kg	1	B3L0410	12/04/2023	12/04/2023	
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Surrogate: Fluorene-d10	98.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.584		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	1.58	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	69.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.0712	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-N05@5'

12/4/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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	"	"	"	"	12/05/2023	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " 12/04/2023
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N05@5'

12/4/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-05 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.726		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	2.01	0.428	1.25	mg/Kg	25	L720780	12/06/2023	12/20/2023	
Barium	67.9	0.042	0.25	"	5	"	"	12/18/2023	
Cadmium	0.0735	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-N06@5'

12/4/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 110 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N06@5'

12/4/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-06 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.976		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	1.26	0.428	1.25	mg/Kg	25	L720780	12/06/2023	12/20/2023	
Barium	83.9	0.042	0.25	"	5	"	"	12/18/2023	
Cadmium	0.0753	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-N07@5'

12/4/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-N07@5'

12/4/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-07 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.844		0.00500	mmhos/cm	1	B3L0814	12/08/2023	12/09/2023	
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Total Metals by 6020B

Arsenic	1.49	0.428	1.25	mg/Kg	25	L720780	12/06/2023	12/20/2023	
Barium	82.4	0.042	0.25	"	5	"	"	12/18/2023	
Cadmium	0.0814	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-W06@5'

12/4/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.7 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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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 - Cooper 12-10A O SA

DL-W06@5'

12/4/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-08 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.185		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	1.29	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	55.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.0494	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-W07@5'

12/4/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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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 - Cooper 12-10A O SA

DL-W07@5'
12/4/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-09 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.236		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	1.03	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	45.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.0356	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S04@5'

12/4/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 107 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S04@5'

12/4/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-10 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.678		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	1.48	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	65.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.075	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-S05@5'

12/4/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S05@5'

12/4/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-11 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.486		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	1.21	0.428	1.25	mg/Kg	25	L720780	12/06/2023	12/20/2023	J
Barium	121	0.042	0.25	"	5	"	"	12/18/2023	
Cadmium	0.133	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-S06@5'

12/4/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-12 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.0 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S06@5'

12/4/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-12 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	0.988	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	43.9	0.042	0.25	"	"	"	"	"	
Cadmium	0.0327	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-S07@5'

12/4/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-13 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	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 107 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-S07@5'

12/4/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-13 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.612		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	0.864	0.0855	0.25	mg/Kg	5	L720780	12/06/2023	12/18/2023	
Barium	59.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.0936	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-B07@15'
12/4/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-14 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.169	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	
1,3,5-Trimethylbenzene	0.866	0.0500	"	25	"	"	12/05/2023	
Ethylbenzene	0.0955	0.00200	"	1	"	"	12/05/2023	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.505	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	101	5.00	"	25	"	"	12/05/2023	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " 12/05/2023
Surrogate: Toluene-d8 112 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.009	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	
2-Methylnaphthalene	0.013	0.002	"	"	"	"	"	

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 - Cooper 12-10A O SA

DL-B07@15'
12/4/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-14 (Soil)

PAH by EPA 8270E

Naphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Surrogate: Fluorene-d10	98.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.2 %	60-130	"	"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.33	0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023
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Total Metals by 6020B

Arsenic	1.48	0.428	1.25	mg/Kg	25	L720780	12/06/2023	12/20/2023
Barium	61.3	0.042	0.25	"	5	"	"	12/18/2023
Cadmium	0.0906	0.026	0.25	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-B08@15'
12/4/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-15 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/04/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.515	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.0 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B08@15'
12/4/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-15 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.7 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.58		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	3.85	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	44.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.192	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-B09@15'

12/4/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-16 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.0 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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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 - Cooper 12-10A O SA

DL-B09@15'
12/4/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-16 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.73		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	5.14	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	195	0.042	0.25	"	"	"	"	"	
Cadmium	0.192	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B10@15'
12/4/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-17 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00852	0.00200	mg/kg	1	B3L0414	12/04/2023	12/05/2023	
1,3,5-Trimethylbenzene	0.0128	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	7.41	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B10@15'
12/4/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-17 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.70		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	2.59	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	76	0.042	0.25	"	"	"	"	"	
Cadmium	0.103	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-B11@15'

12/4/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-18 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	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	"	"	"	"	12/05/2023	U

Surrogate: 1,2-Dichloroethane-d4 125 % 70-130 " " "
Surrogate: Toluene-d8 96.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B11@15'
12/4/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-18 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.03		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	2.73	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	300	0.042	0.25	"	"	"	"	"	
Cadmium	0.141	0.026	0.25	"	"	"	"	"	J

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 - Cooper 12-10A O SA

DL-B12@15'
12/4/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-19 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	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 125 % 70-130 " " "
Surrogate: Toluene-d8 96.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B12@15'
12/4/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-19 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.40		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	2.5	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	46.9	0.042	0.25	"	"	"	"	"	
Cadmium	0.128	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B13@15'
12/4/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-20 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0413	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0414	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	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 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.3 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

DL-B13@15'
12/4/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-20 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0410	12/04/2023	12/05/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	105 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.21		0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023	
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Total Metals by 6020B

Arsenic	2.26	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023	
Barium	110	0.042	0.25	"	"	"	"	"	
Cadmium	0.209	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

PW-BG03@15'

12/4/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-21 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023
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Total Metals by 6020B

Arsenic	3.93	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023
Barium	106	0.042	0.25	"	"	"	"	"
Cadmium	0.161	0.026	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 - Cooper 12-10A O SA

PW-BG04@15'

12/4/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312056-22 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.60	0.00500	mmhos/cm	1	B3L0905	12/09/2023	12/10/2023
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Total Metals by 6020B

Arsenic	3.63	0.0855	0.25	mg/Kg	5	L720781	12/06/2023	12/20/2023
Barium	267	0.042	0.25	"	"	"	"	"
Cadmium	0.162	0.026	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 - Cooper 12-10A O SA

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 B3L0413 - EPA 3550B										
Blank (B3L0413-BLK1)					Prepared: 12/04/2023 Analyzed: 12/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.2	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 - Cooper 12-10A O SA

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 B3L0413 - EPA 3550B										
LCS (B3L0413-BS1)					Prepared: 12/04/2023 Analyzed: 12/04/2023					
Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	816	200	"	1000		81.6	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.0	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 - Cooper 12-10A O SA

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 B3L0413 - EPA 3550B										
Matrix Spike (B3L0413-MS1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
Diesel (C10-C28)	809	50.0	mg/kg	1000	ND	80.9	70-130			
Residual Range Organics (C28-C40)	837	200	"	1000	ND	83.7	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.0	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 - Cooper 12-10A O SA

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 B3L0413 - EPA 3550B										
Matrix Spike Dup (B3L0413-MSD1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
Diesel (C10-C28)	851	50.0	mg/kg	1000	ND	85.1	70-130	5.12	35	
Residual Range Organics (C28-C40)	894	200	"	1000	ND	89.4	70-130	6.62	35	
Surrogate: o-Terphenyl	48		"	49.8		96.0	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3L0414 - EPA 5030 (soil)										
Blank (B3L0414-BLK1)					Prepared: 12/04/2023 Analyzed: 12/04/2023					
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		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3L0414 - EPA 5030 (soil)										
LCS (B3L0414-BS1)					Prepared: 12/04/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100		93.3	70-130			
1,3,5-Trimethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Naphthalene	0.0954	0.00380	"	0.100		95.4	70-130			
Toluene	0.0966	0.00200	"	0.100		96.6	70-130			
o-Xylene	0.0984	0.00200	"	0.100		98.4	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	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 - Cooper 12-10A O SA

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 B3L0414 - EPA 5030 (soil)										
Matrix Spike (B3L0414-MS1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	0.0784	0.00200	mg/kg	0.100	ND	78.4	70-130			
1,3,5-Trimethylbenzene	0.0773	0.00200	"	0.100	ND	77.3	70-130			
Benzene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
Ethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
Naphthalene	0.0797	0.00380	"	0.100	ND	79.7	70-130			
Toluene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
o-Xylene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3L0414 - EPA 5030 (soil)										
Matrix Spike Dup (B3L0414-MSD1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	0.0835	0.00200	mg/kg	0.100	ND	83.5	70-130	6.25	20	
1,3,5-Trimethylbenzene	0.0827	0.00200	"	0.100	ND	82.7	70-130	6.72	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	9.10	20	
Ethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	7.55	20	
Naphthalene	0.0889	0.00380	"	0.100	ND	88.9	70-130	10.9	20	
Toluene	0.0906	0.00200	"	0.100	ND	90.6	70-130	8.98	20	
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130	7.58	20	
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.5	70-130	8.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	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 - Cooper 12-10A O SA

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 B3L0410 - EPA 3580

Blank (B3L0410-BLK1)

Prepared: 12/04/2023 Analyzed: 12/04/2023

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	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	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 - Cooper 12-10A O SA

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 B3L0410 - EPA 3580

LCS (B3L0410-BS1)

Prepared: 12/04/2023 Analyzed: 12/04/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200		104	70-130
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130
Acenaphthene	0.199	0.020	"	0.200		99.4	70-130
Anthracene	0.182	0.020	"	0.200		91.1	70-130
Benzo (a) anthracene	0.183	0.005	"	0.200		91.6	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200		94.6	70-130
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.0	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130
Chrysene	0.195	0.020	"	0.200		97.6	70-130
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130
Fluoranthene	0.203	0.020	"	0.200		102	70-130
Fluorene	0.198	0.020	"	0.200		98.9	70-130
Indeno (1,2,3-cd) pyrene	0.228	0.020	"	0.200		114	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Phenanthrene	0.196	0.020	"	0.200		98.2	70-130
Pyrene	0.209	0.020	"	0.200		105	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130
Surrogate: Anthracene-d10	190		"	200		95.6	60-130
Surrogate: Pyrene-d10	200		"	200		100	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130

Matrix Spike (B3L0410-MS1)

Source: Y312056-01

Prepared: 12/04/2023 Analyzed: 12/04/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	ND	109	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130
Anthracene	0.189	0.020	"	0.200	ND	94.3	70-130

Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B3L0410 - EPA 3580

Matrix Spike (B3L0410-MS1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
Benzo (a) anthracene	0.196	0.005	mg/kg	0.200	ND	97.8	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	95.8	70-130			
Benzo (b) fluoranthene	0.215	0.020	"	0.200	ND	107	70-130			
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	ND	112	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200	ND	94.0	70-130			
Chrysene	0.208	0.020	"	0.200	ND	104	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.214	0.020	"	0.200	ND	107	70-130			
Fluorene	0.214	0.020	"	0.200	ND	107	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.205	0.020	"	0.200	ND	102	70-130			
Pyrene	0.211	0.020	"	0.200	ND	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3L0410-MSD1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130	2.93	20	
2-Methylnaphthalene	0.213	0.002	"	0.200	ND	106	70-130	1.91	20	
Acenaphthene	0.209	0.020	"	0.200	ND	105	70-130	0.174	20	
Anthracene	0.201	0.020	"	0.200	ND	101	70-130	6.38	20	
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	107	70-130	9.42	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.4	70-130	0.386	20	
Benzo (b) fluoranthene	0.221	0.020	"	0.200	ND	110	70-130	2.74	20	
Benzo (g,h,i) perylene	0.225	0.020	"	0.200	ND	112	70-130	0.648	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 - Cooper 12-10A O SA

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 B3L0410 - EPA 3580

Matrix Spike Dup (B3L0410-MSD1)		Source: Y312056-01			Prepared: 12/04/2023 Analyzed: 12/04/2023					
Benzo (k) fluoranthene	0.199	0.020	mg/kg	0.200	ND	99.7	70-130	5.86	20	
Chrysene	0.196	0.020	"	0.200	ND	98.2	70-130	5.82	20	
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	ND	112	70-130	3.85	20	
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130	1.65	20	
Fluorene	0.209	0.020	"	0.200	ND	105	70-130	2.32	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	ND	110	70-130	5.28	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	0.928	20	
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130	1.39	20	
Pyrene	0.219	0.020	"	0.200	ND	110	70-130	3.70	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		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 - Cooper 12-10A O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L0814 - Saturated Paste pH/EC										
Blank (B3L0814-BLK1)					Prepared: 12/08/2023 Analyzed: 12/09/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L0814-DUP1)					Source: Y311595-05 Prepared: 12/08/2023 Analyzed: 12/09/2023					
Specific Conductance (EC)	0.367	0.00500	mmhos/cm		0.369			0.544	25	
Batch B3L0905 - Saturated Paste pH/EC										
Blank (B3L0905-BLK1)					Prepared: 12/09/2023 Analyzed: 12/10/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L0905-DUP1)					Source: Y312056-08 Prepared: 12/09/2023 Analyzed: 12/10/2023					
Specific Conductance (EC)	0.173	0.00500	mmhos/cm		0.185			6.49	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 - Cooper 12-10A O SA

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 L720781 - 3050B										
MSD (L 81970-MSD-L720781)			Source: 81970		Prepared: 12/06/2023 Analyzed: 12/20/2023					
Arsenic	5.89	0.25	mg/Kg	2.47	3.81	84	75-125	35.7	80	
Barium	116	0.25	"	4.95	168	0	75-125	35.4	80	*
Cadmium	0.525	0.25	"	0.495	0.0895	88	75-125	1.7	80	
MS (L 81970-MS-L720781)			Source: 81970		Prepared: 12/06/2023 Analyzed: 12/20/2023					
Arsenic	8.45	0.25	mg/Kg	2.47	3.81	188	75-125			*
Barium	166	0.25	"	4.94	168	0	75-125			*
Cadmium	0.516	0.25	"	0.494	0.0895	86	75-125			
LCS (LCS-L720781)			Prepared: 12/06/2023 Analyzed: 12/20/2023							
Arsenic	2.47	0.25	mg/Kg	2.5		99	80-120			
Cadmium	0.519	0.25	"	0.5		104	80-120			
Barium	5.13	0.25	"	5		103	80-120			
LRB (LRB-L720781)			Prepared: 12/06/2023 Analyzed: 12/20/2023							
Cadmium	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 - Cooper 12-10A O SA

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 L720780 - 3050B										
MSD (L 81950-MSD-L720780)			Source: Y312056-14		Prepared: 12/06/2023 Analyzed: 12/20/2023					
Arsenic	4.96	1.25	mg/Kg	2.35	1.48	148	75-125	12.4	80	*
Barium	66.1	1.25	"	4.69	61.3	102	75-125	41.7	80	
Cadmium	0.645	1.25	"	0.469	<0.130	118	75-125	24.5	80	
MS (L 81950-MS-L720780)			Source: Y312056-14		Prepared: 12/06/2023 Analyzed: 12/18/2023					
Cadmium	0.504	0.25	mg/Kg	0.477	0.0906	87	75-125			
Barium	101	0.25	"	4.77	61.3	833	75-125			*
Arsenic	4.38	1.25	"	2.38	1.48	122	75-125			
LCS (LCS-L720780)					Prepared: 12/06/2023 Analyzed: 12/18/2023					
Cadmium	0.516	0.25	mg/Kg	0.5		103	80-120			
Barium	4.92	0.25	"	5		98	80-120			
Arsenic	2.35	0.25	"	2.5		94	80-120			
LRB (LRB-L720780)					Prepared: 12/06/2023 Analyzed: 12/18/2023					
Arsenic	ND	0.25	mg/Kg				-			
Barium	0.0446	0.25	"				-			J
Cadmium	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 - Cooper 12-10A O SA

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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



December 05, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. December 04, 2023. This project is associated with Origins project number Y312057-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-03	Y312057-01	Water	December 4, 2023 10:25	12/04/2023 14:04

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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

Sample Receipt Checklist

Origins Work Order: 4312057 Client: Eagle
Client Project ID: Cooper 12-10A
Checklist Completed by: ETS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12/4/12 Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
Cooler Number/Temperature: 1 15.8 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	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] 12/4/12
Reviewed by (Project Manager) 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 - Cooper 12-10A O SA

GW-03

12/4/2023 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312057-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	3.93	2.00	ug/L	1	B3L0125	JSM	12/04/2023	12/04/2023	
1,3,5-Trimethylbenzene	18.2	2.00	"	"	"	JSM	"	"	
Benzene	1.04	1.00	"	"	"	JSM	"	"	
Ethylbenzene	12.5	1.00	"	"	"	JSM	"	"	
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	1.89	1.00	"	"	"	JSM	"	"	
Xylenes, total	81.0	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

106 %
95.9 %
100 %

70-130
70-130
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 - Cooper 12-10A O SA

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 B3L0125 - EPA 5030B (Water)										
Blank (B3L0125-BLK1)					Prepared: 12/01/2023 Analyzed: 12/04/2023					
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	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		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 - Cooper 12-10A O SA

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 B3L0125 - EPA 5030B (Water)										
LCS (B3L0125-BS1)					Prepared: 12/01/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	53.4	2.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	55.4	2.00	"	50.0		111	70-130			
Benzene	47.0	1.00	"	50.0		94.0	70-130			
Ethylbenzene	51.5	1.00	"	50.0		103	70-130			
m,p-Xylene	99.9	2.00	"	100		99.9	70-130			
Naphthalene	46.0	2.00	"	50.0		92.0	70-130			
o-Xylene	47.3	1.00	"	50.0		94.7	70-130			
Toluene	48.7	1.00	"	50.0		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 - Cooper 12-10A O SA

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 B3L0125 - EPA 5030B (Water)										
Matrix Spike (B3L0125-MS1)		Source: Y312003-01			Prepared: 12/01/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	53.2	2.00	ug/L	50.0	ND	106	70-130			
1,3,5-Trimethylbenzene	54.3	2.00	"	50.0	ND	109	70-130			
Benzene	53.7	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	54.0	1.00	"	50.0	ND	108	70-130			
m,p-Xylene	105	2.00	"	100	0.370	104	70-130			
Naphthalene	35.7	2.00	"	50.0	ND	71.4	70-130			
o-Xylene	49.0	1.00	"	50.0	ND	98.0	70-130			
Toluene	51.5	1.00	"	50.0	2.34	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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 - Cooper 12-10A O SA

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 B3L0125 - EPA 5030B (Water)										
Matrix Spike Dup (B3L0125-MSD1)	Source: Y312003-01				Prepared: 12/01/2023 Analyzed: 12/04/2023					
1,2,4-Trimethylbenzene	62.2	2.00	ug/L	50.0	ND	124	70-130	15.6	20	
1,3,5-Trimethylbenzene	64.5	2.00	"	50.0	ND	129	70-130	17.2	20	
Benzene	62.3	1.00	"	50.0	ND	125	70-130	14.9	20	
Ethylbenzene	65.5	1.00	"	50.0	ND	131	70-130	19.2	20	QM-07
m,p-Xylene	127	2.00	"	100	0.370	127	70-130	19.4	20	
Naphthalene	47.6	2.00	"	50.0	ND	95.3	70-130	28.7	20	QR-02
o-Xylene	61.3	1.00	"	50.0	ND	123	70-130	22.3	20	QR-02
Toluene	61.8	1.00	"	50.0	2.34	119	70-130	18.1	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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 - Cooper 12-10A O SA

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



March 26, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Cooper 12-10A O SA

Project Number - [none]

Attached are your analytical results for KMG - Cooper 12-10A O SA received by Origins Laboratory, Inc. February 29, 2024. This project is associated with Origins project number Y402754-01.

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 - Cooper 12-10A O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL-E06@6'	Y402754-01	Soil	February 29, 2024 10:30	02/29/2024 15:15

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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y402754 Client: Eagle
Client Project ID: Cooper 12-10A

Checklist Completed by: EHS Shipped Via: HO
Date/time completed: 2/29/12 (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 / 1.5 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: 1004

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/29/12

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 - Cooper 12-10A O SA

DL-E06@6'

2/29/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402754-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2940	ZZZ	02/29/2024	02/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 69.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B2949	ZZZ	02/29/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 97.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B2930	Windo	02/29/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	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 - Cooper 12-10A O SA

DL-E06@6'

2/29/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402754-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	100 %	60-130			B4B29 30		02/29/2024	03/01/2024
Surrogate: Anthracene-d10	94.2 %	60-130			"		"	"
Surrogate: Pyrene-d10	94.3 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"		"	"

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.215	0.00500	mmhos/cm	1	B4C0522	EAL	03/05/2024	03/07/2024
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Table 915 metals by EPA 6020B

Arsenic	1.32	0.242	mg/kg	10	B4B2947	KMC	02/29/2024	03/03/2024
Barium	48.9	8.35	"	"	"	KMC	"	"
Cadmium	ND	0.0835	"	"	"	KMC	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2940 - EPA 3550B										
Blank (B4B2940-BLK1)					Prepared: 02/29/2024 Analyzed: 02/29/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		77.1	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 - Cooper 12-10A O SA

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 B4B2940 - EPA 3550B

LCS (B4B2940-BS1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

Diesel (C10-C28)	813	50.0	mg/kg	1000		81.3	70-130			
Residual Range Organics (C28-C40)	804	200	"	1000		80.4	70-130			
Surrogate: o-Terphenyl	37		"	49.8		73.9	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2940 - EPA 3550B

Matrix Spike (B4B2940-MS1)		Source: Y402743-10			Prepared: 02/29/2024 Analyzed: 02/29/2024					
Diesel (C10-C28)	888	50.0	mg/kg	1000	ND	88.8	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130			
Surrogate: o-Terphenyl	37		"	49.8		75.1	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2940 - EPA 3550B

Matrix Spike Dup (B4B2940-MSD1)		Source: Y402743-10			Prepared: 02/29/2024 Analyzed: 02/29/2024					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	2.75	35	
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130	1.05	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	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 - Cooper 12-10A O SA

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 B4B2949 - EPA 5030 (soil)										
Blank (B4B2949-BLK1)					Prepared: 02/29/2024 Analyzed: 02/29/2024					
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		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	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 - Cooper 12-10A O SA

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 B4B2949 - EPA 5030 (soil)										
LCS (B4B2949-BS1)					Prepared: 02/29/2024 Analyzed: 02/29/2024					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0999	0.00200	"	0.100		99.9	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	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 - Cooper 12-10A O SA

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 B4B2949 - EPA 5030 (soil)										
Matrix Spike (B4B2949-MS1)		Source: Y402754-01			Prepared: 02/29/2024 Analyzed: 02/29/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	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 - Cooper 12-10A O SA

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 B4B2949 - EPA 5030 (soil)										
Matrix Spike Dup (B4B2949-MSD1)			Source: Y402754-01		Prepared: 02/29/2024 Analyzed: 02/29/2024					
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	7.70	20	
1,3,5-Trimethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130	8.13	20	
Benzene	0.0891	0.00200	"	0.100	ND	89.1	70-130	6.13	20	
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	7.50	20	
Naphthalene	0.0949	0.00380	"	0.100	ND	94.9	70-130	8.24	20	
Toluene	0.0905	0.00200	"	0.100	ND	90.5	70-130	8.89	20	
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130	7.75	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.6	70-130	7.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2947 - EPA 3050B

Blank (B4B2947-BLK1)

Prepared: 02/29/2024 Analyzed: 03/03/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4B2947-BS1)

Prepared: 02/29/2024 Analyzed: 03/03/2024

Arsenic	5.36	0.290	mg/kg	5.00	107	80-120
Barium	505	10.0	"	500	101	80-120
Cadmium	5.43	0.100	"	5.00	109	80-120
Copper	51.2	10.0	"	50.0	102	80-120
Lead	5.17	1.00	"	5.00	103	80-120
Nickel	5.15	1.00	"	5.00	103	80-120
Selenium	10.0	0.100	"	9.50	106	80-120
Silver	5.27	0.100	"	5.00	105	80-120
Zinc	54.4	37.0	"	50.0	109	80-120

Matrix Spike (B4B2947-MS1)

Source: Y402754-01

Prepared: 02/29/2024 Analyzed: 03/15/2024

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2947 - EPA 3050B										
Matrix Spike (B4B2947-MS1)		Source: Y402754-01			Prepared: 02/29/2024 Analyzed: 03/15/2024					
Arsenic	6.41	0.278	mg/kg	4.80	1.32	106	75-125			
Barium	585	9.60	"	480	48.9	112	75-125			
Cadmium	5.46	0.0960	"	4.80	0.0793	112	75-125			
Copper	54.1	9.60	"	48.0	2.99	107	75-125			
Lead	13.2	0.960	"	4.80	6.85	133	75-125			QM-07
Nickel	8.92	0.960	"	4.80	4.32	95.8	75-125			
Selenium	9.57	0.250	"	9.12	0.249	102	75-125			
Silver	5.73	0.0960	"	4.80	0.0184	119	75-125			
Zinc	75.5	35.5	"	48.0	19.1	118	75-125			
Matrix Spike Dup (B4B2947-MSD1)		Source: Y402754-01			Prepared: 02/29/2024 Analyzed: 03/15/2024					
Arsenic	6.30	0.266	mg/kg	4.58	1.32	109	75-125	1.71	20	
Barium	562	9.16	"	458	48.9	112	75-125	4.13	20	
Cadmium	4.99	0.0916	"	4.58	0.0793	107	75-125	8.92	20	
Copper	52.2	9.16	"	45.8	2.99	107	75-125	3.67	20	
Lead	10.5	0.916	"	4.58	6.85	79.6	75-125	23.1	20	QM-07
Nickel	9.00	0.916	"	4.58	4.32	102	75-125	0.853	20	
Selenium	9.18	0.238	"	8.70	0.249	103	75-125	4.12	20	
Silver	5.25	0.0916	"	4.58	0.0184	114	75-125	8.77	20	
Zinc	74.7	33.9	"	45.8	19.1	122	75-125	1.08	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 - Cooper 12-10A O SA

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 B4B2930 - EPA 3580

Blank (B4B2930-BLK1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

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/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		97.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B4B2930-BS1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		90.0	70-130
2-Methylnaphthalene	0.179	0.002	"	0.200		89.6	70-130
Acenaphthene	0.179	0.020	"	0.200		89.7	70-130
Anthracene	0.170	0.020	"	0.200		84.8	70-130

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

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 B4B2930 - EPA 3580

LCS (B4B2930-BS1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

Benzo (a) anthracene	0.193	0.005	mg/kg	0.200		96.7	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200		95.8	70-130
Benzo (b) fluoranthene	0.190	0.020	"	0.200		95.1	70-130
Benzo (g,h,i) perylene	0.185	0.020	"	0.200		92.4	70-130
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.7	70-130
Chrysene	0.194	0.020	"	0.200		97.2	70-130
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		85.9	70-130
Fluoranthene	0.168	0.020	"	0.200		84.0	70-130
Fluorene	0.180	0.020	"	0.200		90.2	70-130
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200		90.1	70-130
Naphthalene	0.185	0.002	"	0.200		92.5	70-130
Phenanthrene	0.167	0.020	"	0.200		83.4	70-130
Pyrene	0.177	0.020	"	0.200		88.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.2	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130

Matrix Spike (B4B2930-MS1)

Source: Y402741-01

Prepared: 02/29/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	ND	90.2	70-130
2-Methylnaphthalene	0.180	0.002	"	0.200	ND	90.2	70-130
Acenaphthene	0.182	0.020	"	0.200	ND	91.0	70-130
Anthracene	0.175	0.020	"	0.200	ND	87.6	70-130
Benzo (a) anthracene	0.202	0.005	"	0.200	0.0004	101	70-130
Benzo (a) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130
Benzo (b) fluoranthene	0.186	0.020	"	0.200	0.001	92.4	70-130
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.001	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 - Cooper 12-10A O SA

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 B4B2930 - EPA 3580

Matrix Spike (B4B2930-MS1)		Source: Y402741-01			Prepared: 02/29/2024 Analyzed: 02/29/2024					
Benzo (k) fluoranthene	0.178	0.020	mg/kg	0.200	0.0009	88.6	70-130			
Chrysene	0.200	0.020	"	0.200	0.0005	99.7	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	91.8	70-130			
Fluoranthene	0.175	0.020	"	0.200	0.0006	87.2	70-130			
Fluorene	0.185	0.020	"	0.200	ND	92.6	70-130			
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.7	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.6	70-130			
Phenanthrene	0.169	0.020	"	0.200	ND	84.4	70-130			
Pyrene	0.171	0.020	"	0.200	0.0008	85.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4B2930-MSD1)		Source: Y402741-01			Prepared: 02/29/2024 Analyzed: 03/01/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130	2.40	20	
2-Methylnaphthalene	0.182	0.002	"	0.200	ND	90.9	70-130	0.717	20	
Acenaphthene	0.185	0.020	"	0.200	ND	92.3	70-130	1.42	20	
Anthracene	0.176	0.020	"	0.200	ND	88.1	70-130	0.494	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	0.0004	92.0	70-130	9.06	20	
Benzo (a) pyrene	0.193	0.020	"	0.200	ND	96.4	70-130	0.308	20	
Benzo (b) fluoranthene	0.189	0.020	"	0.200	0.001	93.9	70-130	1.63	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.001	94.5	70-130	1.13	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	0.0009	83.5	70-130	5.87	20	
Chrysene	0.191	0.020	"	0.200	0.0005	95.5	70-130	4.33	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	0.001	93.8	70-130	2.13	20	
Fluoranthene	0.178	0.020	"	0.200	0.0006	88.5	70-130	1.41	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 - Cooper 12-10A O SA

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
Batch B4B2930 - EPA 3580										
Matrix Spike Dup (B4B2930-MSD1)		Source: Y402741-01			Prepared: 02/29/2024 Analyzed: 03/01/2024					
Fluorene	0.186	0.020	mg/kg	0.200	ND	92.8	70-130	0.211	20	
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.0	70-130	0.333	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.6	70-130	1.11	20	
Phenanthrene	0.169	0.020	"	0.200	ND	84.7	70-130	0.394	20	
Pyrene	0.169	0.020	"	0.200	0.0008	84.1	70-130	1.09	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Cooper 12-10A O SA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0522 - Saturated Paste pH/EC										
Blank (B4C0522-BLK1)					Prepared: 03/05/2024 Analyzed: 03/07/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0522-DUP1)					Source: Y403014-01 Prepared: 03/05/2024 Analyzed: 03/07/2024					
Specific Conductance (EC)	0.772	0.00500	mmhos/cm		0.779			0.890	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 - Cooper 12-10A O SA

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 17, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - our Raith Unit 1

Project Number - [none]

Attached are your analytical results for KMG - Four Raith Unit 1 received by Origins Laboratory, Inc. June 20, 2023. This project is associated with Origins project number Y306510-01.

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 - Four Raith Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y306510-01	Soil	June 20, 2023 14:08	06/20/2023 16:25
WH-S01@7'	Y306510-02	Soil	June 20, 2023 14:12	06/20/2023 16:25
WH-W01@7'	Y306510-03	Soil	June 20, 2023 14:15	06/20/2023 16:25
FL-B01@4'	Y306510-04	Soil	June 20, 2023 14:28	06/20/2023 16:25
WH-BG01@3'	Y306510-05	Soil	June 20, 2023 14:20	06/20/2023 16:25
WH-BG01@6'	Y306510-06	Soil	June 20, 2023 14:21	06/20/2023 16:25
WH-BG02@3'	Y306510-07	Soil	June 20, 2023 14:23	06/20/2023 16:25
WH-BG02@6'	Y306510-08	Soil	June 20, 2023 14:24	06/20/2023 16:25
WH-BG03@3'	Y306510-09	Soil	June 20, 2023 14:25	06/20/2023 16:25
WH-BG03@6'	Y306510-10	Soil	June 20, 2023 14:26	06/20/2023 16:25

Origins Laboratory, Inc.



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 - Four Raith Unit 1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Initial 4306SID page 1 of 1

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

Project Manager: D. Coloccia
Project Name: Four Raith Unit 1
Project Number:
Samples Collected By: AM

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	Other	EC/pH	SAR	Baron	
WH-B01E8'	1408	3	3	X					X						Metals added to 561 samples per Hanna's email on 7/3/05
WH-S01E7'	1412	3	3												
WH-W01E7'	1415	3	3												
FL-B01E4'	1428	3	3												
WH-B01E3'	1420	2	2												
WH-B01E6'	1421	2	2												
WH-B02E3'	1423	2	2												
WH-B02E6'	1424	2	2												
WH-B03E3'	1425	2	2												
WH-B03E6'	1426	2	2												
Relinquished By: <u>AM</u>	Date: 6/20/23	Time: 1625	Received By: <u>EMS</u>	Date: 6/20/23	Time: 1625	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> Standard <input type="checkbox"/>									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:										

Temp Received: 2.4
Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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 - Four Raith Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4306510 Client: Eagle
Client Project ID: Four Raith Unit 1

Checklist Completed by: EHS Shipped Via: TD
Date/time completed: 6/20/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1125 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 analytes 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 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 (Project Manager) [Signature] Date/Time Reviewed 6/20/23

Origins Laboratory, Inc.

Jefe Pellegrini

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 - Four Raith Unit 1

WH-B01@8'
6/20/2023 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.01	0.100	mg/L	1	B3F2110	06/21/2023	06/22/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	569	25.0	mg/kg	1	B3F2031	06/20/2023	06/21/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

urro ate o Terphenyl

" " "

GBTE TMBs by 8260D

1,2,4-Trimethylbenzene	5.42	0.0500	mg/kg	25	B3F2029	06/20/2023	06/21/2023
1,3,5-Trimethylbenzene	0.365	0.00200	"	1	"	"	06/21/2023
Benzene	0.0120	0.00200	"	"	"	"	"
Ethylbenzene	0.0995	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
ylenes, total	0.770	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	17.8	0.200	"	"	"	"	"

urro ate ichloroethane d

" " "

urro ate Toluene d

" " "

urro ate romofluorobenzene

" " "

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-B01@8'
6/20/2023 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.58	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	17.4	0.435	"	"	"	"	"

PAH by EPA 8270E

2-Fluorobiphenyl	206		ug/kg	10	B3F2032	06/21/2023	06/21/2023
Nitrobenzene-d5	133		"	"	"	"	"
Terphenyl-dl4	206		"	"	"	"	"
1-Methylnaphthalene	0.926	0.020	mg/kg	"	"	"	"
2-Methylnaphthalene	1.90	0.020	"	"	"	"	"
Acenaphthene	0.099	0.040	"	2	"	"	06/21/2023
Anthracene	0.056	0.040	"	"	"	"	"
Benzo (a) anthracene	0.089	0.050	"	10	"	"	06/21/2023
Benzo (a) pyrene	0.042	0.040	"	2	"	"	06/21/2023
Benzo (b) fluoranthene	0.060	0.040	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	" U
Chrysene	0.089	0.040	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	" U
Fluoranthene	0.381	0.200	"	10	"	"	06/21/2023
Fluorene	0.236	0.200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.040	"	2	"	"	06/21/2023 U
Naphthalene	0.492	0.020	"	10	"	"	06/21/2023

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-B01@8'
6/20/2023 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-01 (Soil)

PAH by EPA 8270E

Pyrene	0.363	0.200	mg/kg	10	B3F2032	06/21/2023	06/21/2023
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pH in Soil by 9045D

pH	9.45		pH Units	1	B3F2120	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	8.56		SAR	1	B3F2115	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.95	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	6.84	0.0853	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	47.4	8.53	"	"	"	"	"
Cadmium	0.384	0.0853	"	"	"	"	"
Copper	14.8	8.53	"	"	"	"	"
Lead	12.9	8.53	"	"	"	"	"
Nickel	21.1	8.53	"	"	"	"	"
Selenium	0.260	0.0853	"	"	"	"	"
Silver	ND	0.0853	"	"	"	"	" U
inc	ND	85.3	"	"	"	"	" U

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-B01@8'

6/20/2023 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L690039	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-S01@7'
6/20/2023 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.825	0.0983	mg/L	1	B3F2110	06/21/2023	06/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	668	25.0	mg/kg	1	B3F2031	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

urro ate o Terphenyl

" " "

GBTE TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2029	06/20/2023	06/21/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00522	0.00200	"	"	"	"	"	
Ethylbenzene	0.306	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
ylenes, total	56.9	0.00200	"	"	"	"	06/21/2023	
Gasoline Range Hydrocarbons	441	5.00	"	25	"	"	06/21/2023	

urro ate ichloroethane d

" "

urro ate Toluene d

" " "

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-S01@7'
6/20/2023 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-02 (Soil)

GBTE TMBs by 8260D

urro ate romofluorobenzene

B3F20
29 06/20/2023

Metals by Saturated Paste by EPA 6010

Calcium	6.24	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	8.30	0.823	"	"	"	"	"
Sodium	16.0	0.435	"	"	"	"	"

PAH by EPA 8270E

2-Fluorobiphenyl	217		ug/kg	10	B3F2032	06/21/2023	06/21/2023	
Nitrobenzene-d5	107		"	"	"	"	"	S-04
Terphenyl-dl4	233		"	"	"	"	"	
1-Methylnaphthalene	1.38	0.020	mg/kg	"	"	"	"	
2-Methylnaphthalene	3.07	0.020	"	"	"	"	"	
Acenaphthene	0.089	0.040	"	2	"	"	06/21/2023	
Anthracene	0.455	0.200	"	10	"	"	06/21/2023	
Benzo (a) anthracene	0.063	0.050	"	"	"	"	"	
Benzo (a) pyrene	ND	0.040	"	2	"	"	06/21/2023	U
Benzo (b) fluoranthene	0.059	0.040	"	"	"	"	"	
Benzo (k) fluoranthene	0.087	0.040	"	"	"	"	"	
Chrysene	0.065	0.040	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	"	U

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-S01@7'

6/20/2023 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-02 (Soil)

PAH by EPA 8270E

Fluoranthene	0.211	0.200	mg/kg	10	B3F2032	06/21/2023	06/21/2023	
Fluorene	0.242	0.200	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.040	"	2	"	"	06/21/2023	U
Naphthalene	0.936	0.020	"	10	"	"	06/21/2023	
Pyrene	0.220	0.200	"	"	"	"	"	

pH in Soil by 9045D

pH	7.98		pH Units	1	B3F2120	06/21/2023	06/22/2023	
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SAR by 20B Saturated Paste

SAR	5.92		SAR	1	B3F2115	06/21/2023	06/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.94	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.37	0.0919	mg/kg	10	B3F2102	06/21/2023	06/23/2023	
Barium	66.3	9.19	"	"	"	"	"	
Cadmium	0.257	0.0919	"	"	"	"	"	
Copper	9.56	9.19	"	"	"	"	"	
Lead	10.9	9.19	"	"	"	"	"	

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-S01@7'

6/20/2023 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-02 (Soil)

Table 915 metals by EPA 6020B

Nickel	ND		9.19	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
Selenium	0.187		0.0919	"	"	"	"	"	
Silver	ND		0.0919	"	"	"	"	"	U
inc	ND		91.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L690039	06/20/2023	06/29/2023	
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-W01@7'
6/20/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.39	0.100	mg/L	1	B3F2110	06/21/2023	06/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	131	25.0	mg/kg	1	B3F2031	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

urro ate o Terphenyl

" " "

GBTE TMBs by 8260D

1,2,4-Trimethylbenzene	0.0686	0.00200	mg/kg	1	B3F2029	06/20/2023	06/21/2023	
1,3,5-Trimethylbenzene	0.0163	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.0188	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
ylenes, total	0.0242	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.18	0.200	"	"	"	"	"	

urro ate ichloroethane d

" " "

urro ate Toluene d

" " "

urro ate romofluorobenzene

" " "

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-W01@7'
6/20/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.65	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	8.89	0.823	"	"	"	"	"
Sodium	17.4	0.435	"	"	"	"	"

PAH by EPA 8270E

2-Fluorobiphenyl	241		ug/kg	2	B3F2032	06/21/2023	06/22/2023	
Nitrobenzene-d5	89.8		"	"	"	"	"	S-04
Terphenyl-dl4	223		"	"	"	"	"	
1-Methylnaphthalene	0.015	0.004	mg/kg	"	"	"	"	
2-Methylnaphthalene	0.012	0.004	"	"	"	"	"	
Acenaphthene	ND	0.040	"	"	"	"	"	U
Anthracene	ND	0.040	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.010	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.040	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	"	U
Chrysene	ND	0.040	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	"	U
Fluoranthene	ND	0.040	"	"	"	"	"	U
Fluorene	0.076	0.040	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.040	"	"	"	"	"	U

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-W01@7'
6/20/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-03 (Soil)

PAH by EPA 8270E

Naphthalene	0.018		0.004	mg/kg	2	B3F2032	06/21/2023	06/22/2023	
Pyrene	ND		0.040	"	"	"	"	"	U

pH in Soil by 9045D

pH	8.24			pH Units	1	B3F2120	06/21/2023	06/22/2023	
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SAR by 20B Saturated Paste

SAR	7.22			SAR	1	B3F2115	06/21/2023	06/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.29		0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.95		0.0880	mg/kg	10	B3F2102	06/21/2023	06/23/2023	
Barium	46.8		8.80	"	"	"	"	"	
Cadmium	0.265		0.0880	"	"	"	"	"	
Copper	ND		8.80	"	"	"	"	"	U
Lead	9.05		8.80	"	"	"	"	"	
Nickel	9.00		8.80	"	"	"	"	"	
Selenium	0.183		0.0880	"	"	"	"	"	
Silver	ND		0.0880	"	"	"	"	"	U

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-W01@7'
6/20/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-03 (Soil)

Table 915 metals by EPA 6020B

inc	ND	88.0	mg/kg	10	B3F2102	06/21/2023	06/23/2023	U
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L690039	06/20/2023	06/29/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

L-B01@4'

6/20/2023 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.390	0.0990	mg/L	1	B3F2110	06/21/2023	06/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	823	25.0	mg/kg	1	B3F2031	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

urro ate o Terphenyl

" " "

GBTE TMBs by 8260D

1,2,4-Trimethylbenzene	8.43	0.0500	mg/kg	25	B3F2029	06/20/2023	06/21/2023	
1,3,5-Trimethylbenzene	3.59	0.0500	"	"	"	"	"	
Benzene	ND	0.00200	"	1	"	"	06/21/2023	U
Ethylbenzene	0.0458	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
ylenes, total	4.83	0.0500	"	25	"	"	06/21/2023	
Gasoline Range Hydrocarbons	15.1	0.200	"	1	"	"	06/21/2023	

urro ate ichloroethane d

" "

urro ate Toluene d

" " "

urro ate romofluorobenzene

" " "

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

L-B01@4'

6/20/2023 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.45	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	3.14	0.823	"	"	"	"	"
Sodium	8.48	0.435	"	"	"	"	"

PAH by EPA 8270E

2-Fluorobiphenyl	222		ug/kg	10	B3F2032	06/21/2023	06/21/2023	
Nitrobenzene-d5	99.6		"	"	"	"	"	S-04
Terphenyl-dl4	211		"	"	"	"	"	
1-Methylnaphthalene	2.11	0.020	mg/kg	"	"	"	"	
2-Methylnaphthalene	4.62	0.020	"	"	"	"	"	
Acenaphthene	0.412	0.200	"	"	"	"	"	
Anthracene	0.482	0.200	"	"	"	"	"	
Benzo (a) anthracene	0.289	0.050	"	"	"	"	"	
Benzo (a) pyrene	0.103	0.040	"	2	"	"	06/22/2023	
Benzo (b) fluoranthene	0.196	0.040	"	"	"	"	"	
Benzo (k) fluoranthene	0.063	0.040	"	"	"	"	"	
Chrysene	0.224	0.200	"	10	"	"	06/21/2023	
Dibenz (a,h) anthracene	ND	0.040	"	2	"	"	06/22/2023	U
Fluoranthene	1.26	0.200	"	10	"	"	06/21/2023	
Fluorene	0.640	0.200	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.040	"	2	"	"	06/22/2023	U
Naphthalene	1.70	0.020	"	10	"	"	06/21/2023	

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

L-B01@4'

6/20/2023 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-04 (Soil)

PAH by EPA 8270E

Pyrene	1.14	0.200	mg/kg	10	B3F2032	06/21/2023	06/21/2023
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pH in Soil by 9045D

pH	8.24		pH Units	1	B3F2120	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	5.60		SAR	1	B3F2115	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	2.89	0.0956	mg/kg	10	B3F2102	06/21/2023	06/23/2023
Barium	35.1	9.56	"	"	"	"	"
Cadmium	0.126	0.0956	"	"	"	"	"
Copper	ND	9.56	"	"	"	"	" U
Lead	ND	9.56	"	"	"	"	" U
Nickel	ND	9.56	"	"	"	"	" U
Selenium	0.109	0.0956	"	"	"	"	"
Silver	ND	0.0956	"	"	"	"	" U
inc	ND	95.6	"	"	"	"	" U

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

L-B01@4'

6/20/2023 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-04 (Soil)

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L690041	06/20/2023	06/29/2023	
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG01@3'

6/20/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.915	0.0982	mg/L	1	B3F2110	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	11.3	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	16.0	0.823	"	"	"	"	"
Sodium	22.2	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B3F2120	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	6.00		SAR	1	B3F2115	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.51	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	3.34	0.0947	mg/kg	10	B3G0518	07/05/2023	07/06/2023
Barium	55.1	9.47	"	"	"	"	"
Cadmium	0.154	0.0947	"	"	"	"	"
Copper	20.3	9.47	"	"	"	"	"

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG01@3'

6/20/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-05 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.47	mg/kg	10	B3G0518	07/05/2023	07/06/2023	U
Nickel	ND	9.47	"	"	"	"	"	U
Selenium	0.135	0.0947	"	"	"	"	"	
Silver	ND	0.0947	"	"	"	"	"	U
inc	ND	94.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG01@6'

6/20/2023 2:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06	0.101	mg/L	1	B3F2110	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	17.0	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	29.6	0.823	"	"	"	"	"
Sodium	32.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B3F2120	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	6.65		SAR	1	B3F2115	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.46	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	3.22	0.0896	mg/kg	10	B3G0518	07/05/2023	07/06/2023
Barium	50.8	8.96	"	"	"	"	"
Cadmium	0.201	0.0896	"	"	"	"	"
Copper	22.8	8.96	"	"	"	"	"

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG01@6'

6/20/2023 2:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-06 (Soil)

Table 915 metals by EPA 6020B

Lead	11.6	8.96	mg/kg	10	B3G0518	07/05/2023	07/06/2023	
Nickel	ND	8.96	"	"	"	"	"	U
Selenium	0.224	0.0896	"	"	"	"	"	
Silver	ND	0.0896	"	"	"	"	"	U
inc	ND	89.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG02@3'
6/20/2023 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.07	0.102	mg/L	1	B3F2110	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	6.43	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	12.5	0.823	"	"	"	"	"
Sodium	15.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.17		pH Units	1	B3F2120	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	5.12		SAR	1	B3F2115	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.49	0.00500	mmhos/cm	1	B3F2120	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	3.62	0.0879	mg/kg	10	B3G0518	07/05/2023	07/06/2023
Barium	57.8	8.79	"	"	"	"	"
Cadmium	0.178	0.0879	"	"	"	"	"
Copper	19.9	8.79	"	"	"	"	"

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG02@3'

6/20/2023 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-07 (Soil)

Table 915 metals by EPA 6020B

Lead	10.1	8.79	mg/kg	10	B3G0518	07/05/2023	07/06/2023	
Nickel	10.5	8.79	"	"	"	"	"	
Selenium	0.161	0.0879	"	"	"	"	"	
Silver	ND	0.0879	"	"	"	"	"	U
inc	ND	87.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG02@6'
6/20/2023 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.07	0.100	mg/L	1	B3F2110	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	14.5	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	11.0	0.823	"	"	"	"	"
Sodium	19.6	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.88		pH Units	1	B3F2121	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	5.49		SAR	1	B3F2116	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.46	0.00500	mmhos/cm	1	B3F2121	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	3.11	0.0993	mg/kg	10	B3G0518	07/05/2023	07/06/2023
Barium	102	9.93	"	"	"	"	"
Cadmium	0.234	0.0993	"	"	"	"	"
Copper	24.0	9.93	"	"	"	"	"

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG02@6'

6/20/2023 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-08 (Soil)

Table 915 metals by EPA 6020B

Lead	12.6	9.93	mg/kg	10	B3G0518	07/05/2023	07/06/2023	
Nickel	ND	9.93	"	"	"	"	"	U
Selenium	0.232	0.0993	"	"	"	"	"	
Silver	ND	0.0993	"	"	"	"	"	U
inc	ND	99.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG03@3'
6/20/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.27	0.0985	mg/L	1	B3F2110	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	25.3	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	26.9	0.823	"	"	"	"	"
Sodium	17.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B3F2121	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	3.48		SAR	1	B3F2116	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.72	0.00500	mmhos/cm	1	B3F2121	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	3.16	0.0939	mg/kg	10	B3G0518	07/05/2023	07/06/2023
Barium	95.2	9.39	"	"	"	"	"
Cadmium	0.212	0.0939	"	"	"	"	"
Copper	20.0	9.39	"	"	"	"	"

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG03@3'

6/20/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-09 (Soil)

Table 915 metals by EPA 6020B

Lead	11.6	9.39	mg/kg	10	B3G0518	07/05/2023	07/06/2023	
Nickel	ND	9.39	"	"	"	"	"	U
Selenium	0.176	0.0939	"	"	"	"	"	
Silver	ND	0.0939	"	"	"	"	"	U
inc	ND	93.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG03@6'
6/20/2023 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.09	0.101	mg/L	1	B3F2111	06/21/2023	06/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	9.14	0.499	meq/L	10	[CALC]	06/21/2023	06/22/2023
Magnesium	12.2	0.823	"	"	"	"	"
Sodium	20.6	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B3F2121	06/21/2023	06/22/2023
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SAR by 20B Saturated Paste

SAR	6.31		SAR	1	B3F2116	06/21/2023	06/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.83	0.00500	mmhos/cm	1	B3F2121	06/21/2023	06/22/2023
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Table 915 metals by EPA 6020B

Arsenic	2.86	0.167	mg/kg	20	B3G0518	07/05/2023	07/06/2023
Barium	47.5	8.36	"	10	"	"	07/06/2023
Cadmium	ND	0.0836	"	"	"	"	" U
Copper	32.3	16.7	"	20	"	"	07/06/2023

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

WH-BG03@6'

6/20/2023 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-10 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	8.36	mg/kg	10	B3G0518	07/05/2023	07/06/2023	U
Nickel	ND	16.7	"	20	"	"	07/06/2023	U
Selenium	0.214	0.167	"	"	"	"	"	
Silver	ND	0.0836	"	10	"	"	07/06/2023	U
inc	ND	167	"	20	"	"	07/06/2023	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L691672	06/20/2023	07/10/2023
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Origins Laboratory, Inc.



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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 - Four Raith Unit 1

olatile 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 B3 2029 - EPA 5030 (soil)										
Blank (B3 2029-BLK1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
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
o-ylene	ND	0.00200	"							U
m,p-ylene	ND	0.00400	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
urro ate ichloroethane d	.		"	.		.				
urro ate Toluene d	.		"	.		.				
urro ate romofluorobenzene	.		"	.		.				

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

olatile 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 B3 2029 - EPA 5030 (soil)										
LCS (B3 2029-BS1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0938	0.00380	"	0.100		93.8	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o- ylene	0.102	0.00200	"	0.100		102	70-130			
m,p- ylene	0.214	0.00400	"	0.200		107	70-130			
urro ate ichloroethane d	.		"	.		.				
urro ate Toluene d	.		"	.		.				
urro ate romofluorobenzene	.		"	.		.				

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

olatile 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 B3 2029 - EPA 5030 (soil)

Matri Spike (B3 2029-MS1)		Source: Y306497-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.115	0.00200	"	0.100	ND	115	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-ylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-ylene	0.217	0.00400	"	0.200	ND	108	70-130			
urro ate ichloroethane d	.		"	.	.	.				
urro ate Toluene d	.		"	.	.	.				
urro ate romofluorobenzene	.		"	.	.	.				

Origins Laboratory, Inc.



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 - Four Raith Unit 1

olatile 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 B3 2029 - EPA 5030 (soil)										
Matri Spike Dup (B3 2029-MSD1)	Source: Y306497-01				Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	1.54	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	1.55	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	0.719	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.39	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	3.10	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	1.20	20	
o-ylene	0.102	0.00200	"	0.100	ND	102	70-130	1.62	20	
m,p-ylene	0.213	0.00400	"	0.200	ND	106	70-130	1.92	20	
urro ate ichloroethane d	.		"	.	.	.				
urro ate Toluene d	.		"	.	.	.				
urro ate romofluorobenzene	.		"	.	.	.				

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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 - Four Raith Unit 1

olatile 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 B3 2031 - EPA 3550B

Blank (B3 2031-BLK1)

Prepared: 06/20/2023 Analyzed: 06/20/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
unro ate o Terphenyl			"							

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

E tractable 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 B3 2031 - EPA 3550B

LCS (B3 2031-BS1)

Prepared: 06/20/2023 Analyzed: 06/20/2023

Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			

urro ate o Terphenyl

"

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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 - Four Raith Unit 1

E tractable 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 B3 2031 - EPA 3550B

Matri	Spike (B3 2031-MS1)	Source: Y306509-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
unro ate o Terphenyl			"							

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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 - Four Raith Unit 1

E tractable 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 B3 2031 - EPA 3550B

Matri Spike Dup (B3 2031-MSD1)		Source: Y306509-01			Prepared: 06/20/2023 Analyzed: 06/20/2023				
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	2.57	35
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130	2.48	35
unro ate o Terphenyl			"

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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 - Four Raith Unit 1

E tractable 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 B3 2102 - EPA 3050B

Blank (B3 2102-BLK1)

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Selenium	ND	0.000100	"							U

LCS (B3 2102-BS1)

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	0.0510	0.000100	mg/kg	0.0500		102	80-120			
Barium	5.35	0.0100	"	5.00		107	80-120			
Cadmium	0.0508	0.000100	"	0.0500		102	80-120			
Copper	0.521	0.0100	"	0.500		104	80-120			
Selenium	0.0500	0.000100	"	0.0500		100	80-120			

Matri Spike (B3 2102-MS1)

Source: Y306510-01

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	12.7	0.0935	mg/kg	4.67	6.84	125	75-125			
Barium	545	9.35	"	467	47.4	106	75-125			
Cadmium	5.09	0.0935	"	4.67	0.384	101	75-125			
Copper	63.2	9.35	"	46.7	14.8	104	75-125			
Selenium	4.73	0.0935	"	4.67	0.260	95.6	75-125			

Matri Spike Dup (B3 2102-MSD1)

Source: Y306510-01

Prepared: 06/21/2023 Analyzed: 06/23/2023

Arsenic	12.9	0.0861	mg/kg	4.30	6.84	141	75-125	1.76	20	QM-07
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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 - Four Raith Unit 1

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 B3 2102 - EPA 3050B

Matri	Spike Dup (B3 2102-MSD1)	Source: Y306510-01			Prepared: 06/21/2023 Analyzed: 06/23/2023					
Barium	517	8.61	mg/kg	430	47.4	109	75-125	5.31	20	
Cadmium	4.86	0.0861	"	4.30	0.384	104	75-125	4.55	20	
Copper	59.8	8.61	"	43.0	14.8	105	75-125	5.57	20	
Selenium	4.41	0.0861	"	4.30	0.260	96.3	75-125	7.05	20	

Batch B3G0518 - EPA 3050B

Blank (B3G0518-BLK1)				Prepared: 07/05/2023 Analyzed: 07/06/2023						
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
inc	ND	0.100	"							U

LCS (B3G0518-BS1)

				Prepared: 07/05/2023 Analyzed: 07/06/2023						
Arsenic	0.0529	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.36	0.0100	"	5.00		107	80-120			
Cadmium	0.0523	0.000100	"	0.0500		105	80-120			
Copper	0.501	0.0100	"	0.500		100	80-120			
Lead	0.0520	0.0100	"	0.0500		104	80-120			
Nickel	0.0496	0.0100	"	0.0500		99.3	80-120			
Selenium	0.0508	0.000100	"	0.0500		102	80-120			
Silver	0.0477	0.000100	"	0.0500		95.3	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B3G0518 - EPA 3050B										
LCS (B3G0518-BS1)					Prepared: 07/05/2023 Analyzed: 07/06/2023					
inc	0.557	0.100	mg/kg	0.500		111	80-120			
Matri Spike (B3G0518-MS1)					Source: Y306487-02 Prepared: 07/05/2023 Analyzed: 07/06/2023					
Arsenic	6.76	0.0873	mg/kg	4.37	2.84	89.8	75-125			
Barium	684	8.73	"	437	156	121	75-125			
Cadmium	4.96	0.0873	"	4.37	0.175	110	75-125			
Copper	57.9	8.73	"	43.7	16.9	93.9	75-125			
Lead	13.7	8.73	"	4.37	5.44	189	75-125			QM-07
Nickel	7.98	8.73	"	4.37	4.46	80.8	75-125			U
Selenium	4.37	0.0873	"	4.37	0.0660	98.5	75-125			
Silver	4.14	0.0873	"	4.37	0.0252	94.2	75-125			
inc	76.9	87.3	"	43.7	26.0	117	75-125			U
Matri Spike Dup (B3G0518-MSD1)					Source: Y306487-02 Prepared: 07/05/2023 Analyzed: 07/06/2023					
Arsenic	6.51	0.0966	mg/kg	4.83	2.84	75.8	75-125	3.88	20	
Barium	623	9.66	"	483	156	96.9	75-125	9.26	20	
Cadmium	4.80	0.0966	"	4.83	0.175	95.9	75-125	3.19	20	
Copper	58.9	9.66	"	48.3	16.9	87.0	75-125	1.71	20	
Lead	10.7	9.66	"	4.83	5.44	108	75-125	25.0	20	QM-07
Nickel	7.54	9.66	"	4.83	4.46	63.9	75-125	5.64	20	U
Selenium	4.42	0.0966	"	4.83	0.0660	90.1	75-125	1.19	20	
Silver	4.30	0.0966	"	4.83	0.0252	88.6	75-125	3.89	20	
inc	70.8	96.6	"	48.3	26.0	92.8	75-125	8.21	20	U

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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 - Four Raith Unit 1

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 B3 2032 - EPA 3580

Blank (B3 2032-BLK1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

Nitrobenzene-d5	165		ug/kg	200		82.5	60-130			
Terphenyl-d14	181		"	200		90.3	60-130			
2-Fluorobiphenyl	211		"	200		106	60-130			
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

LCS (B3 2032-BS1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

2-Fluorobiphenyl	207		ug/kg	200		103	60-130			
Terphenyl-d14	187		"	200		93.7	60-130			
Nitrobenzene-d5	168		"	200		83.9	60-130			
1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200		108	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B3 2032 - EPA 3580

LCS (B3 2032-BS1)

Prepared: 06/20/2023 Analyzed: 06/21/2023

Acenaphthene	0.202	0.020	mg/kg	0.200		101	70-130
Anthracene	0.198	0.020	"	0.200		98.9	70-130
Benzo (a) anthracene	0.191	0.005	"	0.200		95.5	70-130
Benzo (a) pyrene	0.199	0.020	"	0.200		99.7	70-130
Benzo (b) fluoranthene	0.196	0.020	"	0.200		97.9	70-130
Benzo (g,h,i) perylene	0.165	0.020	"	0.200		82.4	70-130
Benzo (k) fluoranthene	0.210	0.020	"	0.200		105	70-130
Chrysene	0.186	0.020	"	0.200		92.8	70-130
Dibenz (a,h) anthracene	0.161	0.020	"	0.200		80.7	70-130
Fluoranthene	0.225	0.020	"	0.200		113	70-130
Fluorene	0.222	0.020	"	0.200		111	70-130
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.8	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.218	0.020	"	0.200		109	70-130
Pyrene	0.197	0.020	"	0.200		98.3	70-130

Matri Spike (B3 2032-MS1)

Source: Y306504-01

Prepared: 06/20/2023 Analyzed: 06/21/2023

Terphenyl-dl4	202		ug/kg	200	208	NR	60-130
2-Fluorobiphenyl	203		"	200	207	NR	60-130
Nitrobenzene-d5	170		"	200	163	3.55	60-130
1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	0.001	108	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130
Anthracene	0.197	0.020	"	0.200	ND	98.4	70-130
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200	0.001	94.1	70-130
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B3 2032 - EPA 3580

Matri Spike (B3 2032-MS1)		Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
Benzo (g,h,i) perylene	0.168	0.020	mg/kg	0.200	ND	83.9	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130			
Chrysene	0.206	0.020	"	0.200	ND	103	70-130			
Dibenz (a,h) anthracene	0.171	0.020	"	0.200	ND	85.5	70-130			
Fluoranthene	0.221	0.020	"	0.200	ND	111	70-130			
Fluorene	0.218	0.020	"	0.200	ND	109	70-130			
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200	0.004	82.1	70-130			
Naphthalene	0.198	0.002	"	0.200	0.001	98.3	70-130			
Phenanthrene	0.205	0.020	"	0.200	ND	103	70-130			
Pyrene	0.202	0.020	"	0.200	ND	101	70-130			

Matri Spike Dup (B3 2032-MSD1)		Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
Nitrobenzene-d5	171		ug/kg	200	163	3.96	60-130	0.481		
2-Fluorobiphenyl	200		"	200	207	NR	60-130	1.79		
Terphenyl-d14	200		"	200	208	NR	60-130	0.941		
1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.001	104	70-130	3.53	20	
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130	1.43	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130	3.98	20	
Anthracene	0.200	0.020	"	0.200	ND	100	70-130	1.84	20	
Benzo (a) anthracene	0.209	0.005	"	0.200	ND	105	70-130	0.897	20	
Benzo (a) pyrene	0.187	0.020	"	0.200	0.001	92.9	70-130	1.22	20	
Benzo (b) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.17	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.7	70-130	13.1	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	5.18	20	
Chrysene	0.213	0.020	"	0.200	ND	107	70-130	3.40	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	15.1	20	
Fluoranthene	0.219	0.020	"	0.200	ND	110	70-130	0.888	20	

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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 - Four Raith Unit 1

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 B3 2032 - EPA 3580

Matri	Spike Dup (B3 2032-MSD1)	Source: Y306504-01			Prepared: 06/20/2023 Analyzed: 06/21/2023					
Fluorene	0.206	0.020	mg/kg	0.200	ND	103	70-130	5.42	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	0.004	94.3	70-130	13.5	20	
Naphthalene	0.195	0.002	"	0.200	0.001	97.0	70-130	1.25	20	
Phenanthrene	0.203	0.020	"	0.200	ND	101	70-130	1.28	20	
Pyrene	0.206	0.020	"	0.200	ND	103	70-130	1.89	20	

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 - Four Raith Unit 1

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 B3 2110 - DTPA Sorbitol Preparation										
Blank (B3 2110-BLK1)					Prepared: 06/21/2023 Analyzed: 06/22/2023					
Boron	ND	0.100	mg/L							U
Duplicate (B3 2110-DUP1)					Source: Y306507-07		Prepared: 06/21/2023 Analyzed: 06/22/2023			
Boron	0.348	0.0987	mg/L		0.366			5.07	50	
Batch B3 2111 - DTPA Sorbitol Preparation										
Blank (B3 2111-BLK1)					Prepared: 06/21/2023 Analyzed: 06/22/2023					
Boron	ND	0.100	mg/L							U
Duplicate (B3 2111-DUP1)					Source: Y306510-10		Prepared: 06/21/2023 Analyzed: 06/22/2023			
Boron	1.13	0.0990	mg/L		1.09			3.49	50	
Batch B3 2115 - Saturated Paste Metals										
Blank (B3 2115-BLK1)					Prepared: 06/21/2023 Analyzed: 06/22/2023					
Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B3 2115-DUP1)					Source: Y306507-05		Prepared: 06/21/2023 Analyzed: 06/22/2023			
Calcium PPM	29.8	10.0	mg/L		31.0			3.65	50	
SAR	0.00		SAR		5.55			200	200	U
Magnesium PPM	14.6	10.0	mg/L		15.2			3.42	50	
Sodium PPM	150	10.0	"		151			0.765	50	

Origins Laboratory, Inc.



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 - Four Raith Unit 1

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 B3 2116 - Saturated Paste Metals										
Blank (B3 2116-BLK1)					Prepared: 06/21/2023 Analyzed: 06/22/2023					
Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B3 2116-DUP1)					Source: Y306510-08		Prepared: 06/21/2023 Analyzed: 06/22/2023			
Calcium PPM	282	10.0	mg/L		290			2.52	50	
SAR	0.00		SAR		5.49			200	200	U
Magnesium PPM	146	10.0	mg/L		134			8.33	50	
Sodium PPM	473	10.0	"		451			4.86	50	

Origins Laboratory, Inc.



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 - Four Raith Unit 1

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 B3 2120 - Saturated Paste pH/EC

Blank (B3 2120-BLK1)

Prepared: 06/21/2023 Analyzed: 06/22/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3 2120-DUP1)

Source: Y306507-05

Prepared: 06/21/2023 Analyzed: 06/22/2023

pH	8.25		pH Units	8.23			0.243	25		
Specific Conductance (EC)	0.968	0.00500	mmhos/cm	1.11			13.7	25		

Batch B3 2121 - Saturated Paste pH/EC

Blank (B3 2121-BLK1)

Prepared: 06/21/2023 Analyzed: 06/22/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3 2121-DUP1)

Source: Y306510-08

Prepared: 06/21/2023 Analyzed: 06/22/2023

pH	8.03		pH Units	7.88			1.89	25		
Specific Conductance (EC)	5.15	0.00500	mmhos/cm	4.46			14.3	25		

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

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 L691672 -										
DUP (L 96490-DUP)	Source: 96490				Prepared: Analyzed: 07/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		0.500	-		0	20	
MS (L 96490-MS)	Source: 96490				Prepared: Analyzed: 07/10/2023					
Chromium, Hexavalent	15.1	2.5	mg/Kg	38.8	1.22	39	75-125			
LCS (LCS)					Prepared: Analyzed: 07/10/2023					
Chromium, Hexavalent	6.35	0.5	mg/Kg	8		79	75-125			
LRB (LRB)					Prepared: Analyzed: 07/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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 - Four Raith Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L690041 -										
DUP (L 90381-DUP)	Source: Y306510-04				Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		0.500	-		0	20	
MS (L 90381-MS)	Source: Y306510-04				Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	16	2.5	mg/Kg	39.2	1.22	41	75-125			
LCS (LCS)					Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	7.02	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

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 L690039 -										
DUP (L 86230-DUP)		Source: 86230			Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	ND	0.506	mg/Kg		0.506	-		0	20	
MS (L 86230-MS)		Source: 86230			Prepared: Analyzed: 06/29/2023					
Chromium, Hexavalent	40.6	2.59	mg/Kg	41.4	1.26	98	75-125			

Origins Laboratory, Inc.



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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 - Four Raith Unit 1

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.

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

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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.



January 30, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Four Raith Unit 1

Project Number - [none]

Attached are your analytical results for KMG - Four Raith Unit 1 received by Origins Laboratory, Inc. January 10, 2024. This project is associated with Origins project number Y401219-01.

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 - Four Raith Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B03@14'	Y401219-01	Soil	January 10, 2024 8:00	01/10/2024 15:25
WH-N03@11'	Y401219-02	Soil	January 10, 2024 8:06	01/10/2024 15:25
WH-S03@6'	Y401219-03	Soil	January 10, 2024 8:08	01/10/2024 15:25
WH-S03@11'	Y401219-04	Soil	January 10, 2024 8:10	01/10/2024 15:25
WH-E03@6'	Y401219-05	Soil	January 10, 2024 8:12	01/10/2024 15:25
WH-E03@11'	Y401219-06	Soil	January 10, 2024 8:14	01/10/2024 15:25
WH-W03@6'	Y401219-07	Soil	January 10, 2024 8:16	01/10/2024 15:25
WH-W03@11'	Y401219-08	Soil	January 10, 2024 8:18	01/10/2024 15:25
WH-N03@6'	Y401219-09	Soil	January 10, 2024 8:04	01/10/2024 15:25
WH-BG04@7'	Y401219-10	Soil	January 10, 2024 8:20	01/10/2024 15:25
WH-BG04@14'	Y401219-11	Soil	January 10, 2024 8:24	01/10/2024 15:25
WH-BG05@7'	Y401219-12	Soil	January 10, 2024 8:30	01/10/2024 15:25
WH-BG05@14'	Y401219-13	Soil	January 10, 2024 8:35	01/10/2024 15:25

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 - Four Raith Unit 1

www.originslaboratory.com

4401219
Impacted

page 1 of 2

Client: Eagle Environmental (6x4)
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-6479
Email Address: dcoloccia@eagle-environment.com

Project Manager: D. Coloccia
Project Name: Four Raith Unit 1
Project Number: —
Samples Collected By: CS

WH-N03@ taken off hold per email on 1/10/15

Sample ID Description	Date Sampled	Time Sampled	# of Containers			Preservative			Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Other	Other			
WH-B03E14	1/10/14	0800	3	X					X			X X X X X X X X	All Metals except: Silver, Zinc, Chromium
WH-N03E11		0806											
WH-S03E6		0808											
WH-S03E11		0810											* All PAHs except: dibenz(a,h)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene
WH-E03E6		0812											
WH-E03E11		0814											
WH-W03E6		0816											
WH-W03E11		0818											
WH-N03E6		0804											HOLD (WH-N03E6)
WH-B03E7		0820											

Relinquished By: Chris Bohn
Relinquished By:

Date: 1/10/14
Date:

Time: 1525
Time:

Received By: [Signature]
Received By:

Date: 1/10/14
Date:

Time: 1525
Time:

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

Temp Received: 3 Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page 2 of 2

Impacted

Client: Eagle Environmental (CXY)
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: dcoloccia@eagle-environment.com

Project Manager: D. Coloccia
Project Name: Four Raith Unit 1
Project Number: —
Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other	ICP	GC/MS	* Metals except:	
WH-BG040141	1/10/24	0824	3	X					X			X	X	X	*All Metals except:
WH-BG050141		0830	1												Silver, Zinc,
WH-BG050141		0835	1												Chromium

Date Results Needed

Temp Received: 3

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 - Four Raith Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y4 01219

Client: Eagle

Client Project ID: Four Raith Unit 1

Checklist Completed by: CHS

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

Date/time completed: 1/10/24

Airbill #: N/A

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

Cooler Number/Temperature: 113 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 NaAsO ₂ +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.

[Signature]
Reviewed by (Project Manager)

1/10/24
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 - Four Raith Unit 1

WH-B03@14'
1/10/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.737	0.0995	mg/L	1	B4A1113	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	587	25.0	mg/kg	1	B4A1031	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.28	0.0500	mg/kg	25	B4A1032	HK	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	0.866	0.0500	"	"	"	HK	"	"	
Benzene	0.0332	0.00200	"	1	"	HK	"	01/11/2024	
Ethylbenzene	0.203	0.00200	"	"	"	HK	"	"	
Xylenes, total	0.957	0.00200	"	"	"	HK	"	01/11/2024	
Gasoline Range Hydrocarbons	124	5.00	"	25	"	HK	"	"	

Surrogate: Toluene-d8	92.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.3 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.06	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	1.10	0.823	"	"	"	ACC	"	"	
Sodium	6.42	0.435	"	"	"	ACC	"	"	

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 - Four Raith Unit 1

WH-B03@14'
1/10/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.393	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.757	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.051	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.046	0.020	"	"	"	Windo	"	"	
Naphthalene	0.171	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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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 - Four Raith Unit 1

WH-B03@14'
1/10/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y401219-01 (Soil)

SAR by 20B Saturated Paste

SAR	6.18	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	5.44	0.0876	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	847	8.76	"	"	"	HJD	"	"
Cadmium	0.184	0.0876	"	"	"	HJD	"	"
Copper	ND	8.76	"	"	"	HJD	"	"
Lead	11.2	0.876	"	"	"	HJD	"	"
Nickel	9.75	0.876	"	"	"	HJD	"	"
Selenium	0.276	0.0876	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-N03@11'
1/10/2024 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.911	0.102	mg/L	1	B4A1113	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.1	25.0	mg/kg	1	B4A1031	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	77.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00562	0.00200	mg/kg	1	B4A1032	HK	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	0.00518	0.00200	"	"	"	HK	"	"	
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	0.00218	0.00200	"	"	"	HK	"	"	
Gasoline Range Hydrocarbons	1.55	0.200	"	"	"	HK	"	"	

Surrogate: Toluene-d8	86.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.995	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	5.24	0.823	"	"	"	ACC	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-N03@11'
1/10/2024 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-02 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	9.41	0.435	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
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PAH by EPA 8270E

1-Methylnaphthalene	0.022	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.039	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.005	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.1 %	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 - Four Raith Unit 1

WH-N03@11'
1/10/2024 8:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-02 (Soil)

pH in Soil by 9045D

pH	8.48		pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	5.33	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	3.45	0.0922	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	33.1	9.22	"	"	"	HJD	"	"
Cadmium	0.405	0.0922	"	"	"	HJD	"	"
Copper	ND	9.22	"	"	"	HJD	"	"
Lead	7.99	0.922	"	"	"	HJD	"	"
Nickel	14.7	0.922	"	"	"	HJD	"	"
Selenium	0.167	0.0922	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S03@6'
1/10/2024 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.562	0.101	mg/L	1	B4A1113	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	29.7	25.0	mg/kg	1	B4A1031	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1032	HK	01/10/2024	01/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: Toluene-d8	94.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.43	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Magnesium	16.4	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S03@6'
1/10/2024 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-03 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	10.4	0.435	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	108 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.0 %	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 - Four Raith Unit 1

WH-S03@6'
1/10/2024 8:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-03 (Soil)

pH in Soil by 9045D

pH	8.32		pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	3.07	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	2.50	0.0915	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	72.1	9.15	"	"	"	HJD	"	"
Cadmium	0.113	0.0915	"	"	"	HJD	"	"
Copper	ND	9.15	"	"	"	HJD	"	"
Lead	6.92	0.915	"	"	"	HJD	"	"
Nickel	7.68	0.915	"	"	"	HJD	"	"
Selenium	0.110	0.0915	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S03@11'
1/10/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.73	0.0996	mg/L	1	B4A1113	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	217	25.0	mg/kg	1	B4A1033	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.99	0.0500	mg/kg	25	B4A1032	HK	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	4.09	0.0500	"	"	"	HK	"	"	
Benzene	0.00662	0.00200	"	1	"	HK	"	01/11/2024	
Ethylbenzene	0.133	0.00200	"	"	"	HK	"	"	
Xylenes, total	4.67	0.00200	"	"	"	HK	"	01/11/2024	
Gasoline Range Hydrocarbons	271	5.00	"	25	"	HK	"	"	

Surrogate: Toluene-d8	90.1 %	70-130			"	"		01/11/2024
Surrogate: 4-Bromofluorobenzene	164 %	70-130			"	"		" S-GC

Metals by Saturated Paste by EPA 6010

Calcium	1.03	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	1.93	0.823	"	"	"	ACC	"	"	
Sodium	9.84	0.435	"	"	"	ACC	"	"	

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 - Four Raith Unit 1

WH-S03@11'
1/10/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.294	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.488	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.039	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.034	0.020	"	"	"	Windo	"	"	
Naphthalene	0.127	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.1 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.59	pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S03@11'

1/10/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-04 (Soil)

SAR by 20B Saturated Paste

SAR	8.09	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	10.1	0.0935	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	75.6	9.35	"	"	"	HJD	"	"
Cadmium	0.128	0.0935	"	"	"	HJD	"	"
Copper	ND	9.35	"	"	"	HJD	"	"
Lead	16.1	0.935	"	"	"	HJD	"	"
Nickel	12.1	0.935	"	"	"	HJD	"	"
Selenium	0.357	0.0935	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-E03@6'
1/10/2024 8:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.61	0.100	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1033	ZZZ	01/10/2024	01/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	85.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1032	HK	01/10/2024	01/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: Toluene-d8	88.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.5 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.74	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-E03@6'
1/10/2024 8:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-05 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	6.14	0.823	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Sodium	10.9	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	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 - Four Raith Unit 1

WH-E03@6'
1/10/2024 8:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	95.2 %	60-130			B4A10 03	01/10/2024	01/10/2024
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pH in Soil by 9045D

pH	8.43		pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	5.16	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	3.31	0.0995	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	39.6	9.95	"	"	"	HJD	"	"
Cadmium	0.363	0.0995	"	"	"	HJD	"	"
Copper	ND	9.95	"	"	"	HJD	"	"
Lead	9.06	0.995	"	"	"	HJD	"	"
Nickel	13.0	0.995	"	"	"	HJD	"	"
Selenium	0.188	0.0995	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-E03@11'
1/10/2024 8:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06	0.100	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	217	25.0	mg/kg	1	B4A1033	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	81.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.66	0.0500	mg/kg	25	B4A1032	HKS	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	1.17	0.0500	"	"	"	HKS	"	"	
Benzene	ND	0.00200	"	1	"	HKS	"	01/11/2024	U
Ethylbenzene	0.120	0.0500	"	25	"	HKS	"	01/11/2024	
Xylenes, total	0.344	0.00200	"	1	"	HKS	"	"	
Gasoline Range Hydrocarbons	119	5.00	"	25	"	HKS	"	"	

Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.2 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.999	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	2.08	0.823	"	"	"	ACC	"	"	
Sodium	10.5	0.435	"	"	"	ACC	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-E03@11'
1/10/2024 8:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.247	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.010	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.039	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.027	0.020	"	"	"	Windo	"	"	
Naphthalene	0.083	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.1 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.43	pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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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 - Four Raith Unit 1

WH-E03@11'

1/10/2024 8:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-06 (Soil)

SAR by 20B Saturated Paste

SAR	8.51	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	4.10	0.0937	mg/kg	10	B4A1035	HJD	01/10/2024	01/13/2024
Barium	63.6	9.37	"	"	"	HJD	"	"
Cadmium	0.265	0.0937	"	"	"	HJD	"	"
Copper	ND	9.37	"	"	"	HJD	"	"
Lead	8.30	0.937	"	"	"	HJD	"	"
Nickel	14.0	0.937	"	"	"	HJD	"	"
Selenium	0.161	0.0937	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-W03@6'
1/10/2024 8:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.31	0.0995	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	45.8	25.0	mg/kg	1	B4A1033	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	73.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00328	0.00200	mg/kg	1	B4A1032	HK	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	0.00252	0.00200	"	"	"	HK	"	"	
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	2.05	0.200	"	"	"	HK	"	"	

Surrogate: Toluene-d8	90.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	4.06	0.823	"	"	"	ACC	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-W03@6'
1/10/2024 8:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-07 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	9.85	0.435	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
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PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.008	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	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 - Four Raith Unit 1

WH-W03@6'
1/10/2024 8:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-07 (Soil)

pH in Soil by 9045D

pH	8.52		pH Units	1	B4A1122	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	6.04	0.0100	SAR	1	B4A1118	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	0.313	0.00948	mg/kg	1	B4A1035	HJD	01/10/2024	01/16/2024
Barium	4.39	0.948	"	"	"	HJD	"	"
Cadmium	0.0378	0.00948	"	"	"	HJD	"	"
Copper	1.17	0.948	"	"	"	HJD	"	"
Lead	0.934	0.0948	"	"	"	HJD	"	"
Nickel	1.37	0.0948	"	"	"	HJD	"	"
Selenium	0.0303	0.00948	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-W03@11'
1/10/2024 8:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.868	0.0997	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	698	25.0	mg/kg	1	B4A1033	ZZZ	01/10/2024	01/11/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.31	0.0500	mg/kg	25	B4A1032	HKS	01/10/2024	01/11/2024	
1,3,5-Trimethylbenzene	3.31	0.0500	"	"	"	HKS	"	"	
Benzene	0.0865	0.0500	"	"	"	HKS	"	"	
Ethylbenzene	0.770	0.0500	"	"	"	HKS	"	"	
Xylenes, total	5.99	0.0500	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	327	5.00	"	"	"	HKS	"	"	

Surrogate: Toluene-d8	112 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.1 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.792	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024	
Magnesium	2.30	0.823	"	"	"	ACC	"	"	
Sodium	15.3	0.435	"	"	"	ACC	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-W03@11'

1/10/2024 8:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.302	0.002	mg/kg	1	B4A1003	Windo	01/10/2024	01/10/2024	
2-Methylnaphthalene	0.563	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.041	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.032	0.020	"	"	"	Windo	"	"	
Naphthalene	0.143	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.55	pH Units	1	B4A1123	EAL	01/11/2024	01/12/2024
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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 - Four Raith Unit 1

WH-W03@11'

1/10/2024 8:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-08 (Soil)

SAR by 20B Saturated Paste

SAR	12.3	0.0100	SAR	1	B4A1119	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	0.355	0.00964	mg/kg	1	B4A1035	HJD	01/10/2024	01/16/2024
Barium	3.87	0.964	"	"	"	HJD	"	"
Cadmium	0.0358	0.00964	"	"	"	HJD	"	"
Copper	ND	0.964	"	"	"	HJD	"	"
Lead	0.957	0.0964	"	"	"	HJD	"	"
Nickel	1.12	0.0964	"	"	"	HJD	"	"
Selenium	0.0137	0.00964	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-N03@6'
1/10/2024 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.981	0.0991	mg/L	1	B4A1706	ACC	01/17/2024	01/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	82.0	25.0	mg/kg	1	B4A1501	ZZZ	01/16/2024	01/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	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	B4A1703	HKS	01/17/2024	01/18/2024	U
1,3,5-Trimethylbenzene	0.645	0.0500	"	25	"	HKS	"	01/17/2024	
Benzene	ND	0.00200	"	1	"	HKS	"	01/18/2024	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	0.00870	0.00200	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	124	5.00	"	25	"	HKS	"	01/17/2024	

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	01/18/2024
Surrogate: Toluene-d8	115 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	86.4 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	6.58	0.499	meq/L	10	[CALC]	ACC	01/17/2024	01/18/2024
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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 - Four Raith Unit 1

WH-N03@6'
1/10/2024 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-09 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	11.6	0.823	meq/L	10	[CALC]	ACC	01/17/2024	01/18/2024
Sodium	12.3	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.208	0.002	mg/kg	1	B4A1602	agile	01/16/2024	01/17/2024
2-Methylnaphthalene	0.039	0.002	"	"	"	agile	"	"
Acenaphthene	ND	0.020	"	"	"	agile	"	U
Anthracene	ND	0.020	"	"	"	agile	"	U
Benzo (a) anthracene	0.010	0.005	"	"	"	agile	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	U
Chrysene	ND	0.020	"	"	"	agile	"	U
Fluoranthene	0.048	0.020	"	"	"	agile	"	"
Fluorene	0.050	0.020	"	"	"	agile	"	"
Naphthalene	0.002	0.002	"	"	"	agile	"	"
Pyrene	0.046	0.020	"	"	"	agile	"	"

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	114 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	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 - Four Raith Unit 1

WH-N03@6'
1/10/2024 8:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-09 (Soil)

pH in Soil by 9045D

pH	7.89		pH Units	1	B4A1708	EAL	01/17/2024	01/18/2024
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SAR by 20B Saturated Paste

SAR	4.09	0.0100	SAR	1	B4A1705	ACC	01/17/2024	01/18/2024
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Table 915 metals by EPA 6020B

Arsenic	3.60	0.0868	mg/kg	10	B4A1617	JAH	01/16/2024	01/22/2024
Barium	95.0	8.68	"	"	"	JAH	"	"
Cadmium	0.190	0.0868	"	"	"	JAH	"	"
Copper	9.85	8.68	"	"	"	JAH	"	"
Lead	10.4	0.868	"	"	"	JAH	"	"
Nickel	8.77	0.868	"	"	"	JAH	"	"
Selenium	0.146	0.0868	"	"	"	JAH	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG04@7'

1/10/2024 8:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401219-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.817	0.100	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024
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Metals by Saturated Paste by EPA 6010

Calcium	7.89	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Magnesium	16.6	0.823	"	"	"	ACC	"	"
Sodium	18.7	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.45		pH Units	1	B4A1123	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	5.35	0.0100	SAR	1	B4A1119	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	0.536	0.00940	mg/kg	1	B4A1035	HJD	01/10/2024	01/16/2024
Barium	7.19	0.940	"	"	"	HJD	"	"
Cadmium	0.0701	0.00940	"	"	"	HJD	"	"
Copper	1.48	0.940	"	"	"	HJD	"	"
Lead	1.35	0.0940	"	"	"	HJD	"	"
Nickel	2.17	0.0940	"	"	"	HJD	"	"
Selenium	0.0266	0.00940	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG04@14'
1/10/2024 8:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-11 (Soil)

Boron (DTPA Sorbitol)

Boron	1.01	0.0999	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024
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Metals by Saturated Paste by EPA 6010

Calcium	9.53	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Magnesium	12.1	0.823	"	"	"	ACC	"	"
Sodium	19.1	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.42		pH Units	1	B4A1123	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	5.80	0.0100	SAR	1	B4A1119	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	2.85	0.0981	mg/kg	10	B4A1036	JAH	01/10/2024	01/15/2024
Barium	44.9	9.81	"	"	"	JAH	"	"
Cadmium	0.183	0.0981	"	"	"	JAH	"	"
Copper	ND	9.81	"	"	"	JAH	"	"
Lead	8.04	0.981	"	"	"	JAH	"	"
Nickel	7.50	0.981	"	"	"	JAH	"	"
Selenium	0.149	0.0981	"	"	"	JAH	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG05@7'

1/10/2024 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-12 (Soil)

Boron (DTPA Sorbitol)

Boron	1.04	0.100	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024
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Metals by Saturated Paste by EPA 6010

Calcium	26.8	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Magnesium	31.7	0.823	"	"	"	ACC	"	"
Sodium	20.0	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B4A1123	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	3.70	0.0100	SAR	1	B4A1119	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	2.34	0.0885	mg/kg	10	B4A1036	JAH	01/10/2024	01/15/2024
Barium	57.2	8.85	"	"	"	JAH	"	"
Cadmium	0.218	0.0885	"	"	"	JAH	"	"
Copper	ND	8.85	"	"	"	JAH	"	"
Lead	9.09	0.885	"	"	"	JAH	"	"
Nickel	8.61	0.885	"	"	"	JAH	"	"
Selenium	0.147	0.0885	"	"	"	JAH	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG05@14'
1/10/2024 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401219-13 (Soil)

Boron (DTPA Sorbitol)

Boron	1.03	0.100	mg/L	1	B4A1114	ACC	01/11/2024	01/12/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.83	0.499	meq/L	10	[CALC]	ACC	01/11/2024	01/15/2024
Magnesium	9.27	0.823	"	"	"	ACC	"	"
Sodium	14.9	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.65		pH Units	1	B4A1123	EAL	01/11/2024	01/12/2024
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SAR by 20B Saturated Paste

SAR	5.62	0.0100	SAR	1	B4A1119	ACC	01/11/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	16.4	0.0941	mg/kg	10	B4A1036	JAH	01/10/2024	01/15/2024
Barium	38.9	9.41	"	"	"	JAH	"	"
Cadmium	0.361	0.0941	"	"	"	JAH	"	"
Copper	16.1	9.41	"	"	"	JAH	"	"
Lead	13.2	0.941	"	"	"	JAH	"	"
Nickel	8.78	0.941	"	"	"	JAH	"	"
Selenium	0.396	0.0941	"	"	"	JAH	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1031 - EPA 3550B										
Blank (B4A1031-BLK1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		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 - Four Raith Unit 1

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 B4A1031 - EPA 3550B										
LCS (B4A1031-BS1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	871	50.0	mg/kg	1000		87.1	70-130			
Residual Range Organics (C28-C40)	814	200	"	1000		81.4	70-130			
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 - Four Raith Unit 1

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 B4A1031 - EPA 3550B										
Matrix Spike (B4A1031-MS1)		Source: Y401210-05			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	1440	50.0	mg/kg	1000	801	63.8	70-130			QM-07
Residual Range Organics (C28-C40)	1050	200	"	1000	302	75.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1031 - EPA 3550B										
Matrix Spike Dup (B4A1031-MSD1)	Source: Y401210-05				Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	1660	50.0	mg/kg	1000	801	86.0	70-130	14.3	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	302	84.5	70-130	8.39	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1032 - EPA 5030 (soil)										
Blank (B4A1032-BLK1)					Prepared: 01/10/2024 Analyzed: 01/10/2024					
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	0.11		"	0.125		86.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		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 - Four Raith Unit 1

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 B4A1032 - EPA 5030 (soil)										
LCS (B4A1032-BS1)					Prepared: 01/10/2024 Analyzed: 01/10/2024					
1,2,4-Trimethylbenzene	0.0834	0.00200	mg/kg	0.100		83.4	70-130			
1,3,5-Trimethylbenzene	0.0818	0.00200	"	0.100		81.8	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0923	0.00200	"	0.100		92.3	70-130			
Naphthalene	0.0975	0.00380	"	0.100		97.5	70-130			
Toluene	0.0937	0.00200	"	0.100		93.7	70-130			
o-Xylene	0.0844	0.00200	"	0.100		84.4	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.3	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 - Four Raith Unit 1

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 B4A1032 - EPA 5030 (soil)

Matrix Spike (B4A1032-MS1)		Source: Y401210-10			Prepared: 01/10/2024 Analyzed: 01/10/2024					
1,2,4-Trimethylbenzene	0.0874	0.00200	mg/kg	0.100	0.00106	86.3	70-130			
1,3,5-Trimethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.00206	102	70-130			
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
o-Xylene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		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 - Four Raith Unit 1

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 B4A1032 - EPA 5030 (soil)										
Matrix Spike Dup (B4A1032-MSD1)		Source: Y401210-10			Prepared: 01/10/2024 Analyzed: 01/10/2024					
1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100	0.00106	86.6	70-130	0.320	20	
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130	0.184	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	5.03	20	
Ethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130	1.33	20	
Naphthalene	0.103	0.00380	"	0.100	0.00206	101	70-130	1.18	20	
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130	0.694	20	
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130	0.529	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	1.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.2	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 - Four Raith Unit 1

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 B4A1033 - EPA 3550B										
Blank (B4A1033-BLK1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.2	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 - Four Raith Unit 1

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 B4A1033 - EPA 3550B										
LCS (B4A1033-BS1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000		95.6	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.5	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1033 - EPA 3550B										
Matrix Spike (B4A1033-MS1)		Source: Y401219-04			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	217	82.2	70-130			
Residual Range Organics (C28-C40)	959	200	"	1000	ND	95.9	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 - Four Raith Unit 1

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 B4A1033 - EPA 3550B										
Matrix Spike Dup (B4A1033-MSD1)		Source: Y401219-04			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	217	83.6	70-130	1.34	35	
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130	1.65	35	
Surrogate: o-Terphenyl	43		"	49.8		86.8	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 - Four Raith Unit 1

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 B4A1501 - EPA 3550B										
Blank (B4A1501-BLK1)					Prepared: 01/16/2024 Analyzed: 01/17/2024					
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.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1501 - EPA 3550B										
LCS (B4A1501-BS1)					Prepared: 01/16/2024 Analyzed: 01/17/2024					
Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	998	200	"	1000		99.8	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.9	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 - Four Raith Unit 1

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 B4A1501 - EPA 3550B

Matrix Spike (B4A1501-MS1)		Source: Y401313-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1501 - EPA 3550B

Matrix Spike Dup (B4A1501-MSD1)		Source: Y401313-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130	0.327	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	0.538	35	
Surrogate: o-Terphenyl	43		"	49.8		85.9	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1703 - EPA 5030 (soil)										
Blank (B4A1703-BLK1)					Prepared: 01/17/2024 Analyzed: 01/17/2024					
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	108		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	89.7		70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1703 - EPA 5030 (soil)										
LCS (B4A1703-BS1)					Prepared: 01/17/2024 Analyzed: 01/17/2024					
1,2,4-Trimethylbenzene	0.0930	0.00200	mg/kg	0.100		93.0	70-130			
1,3,5-Trimethylbenzene	0.0919	0.00200	"	0.100		91.9	70-130			
Benzene	0.0927	0.00200	"	0.100		92.7	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.0861	0.00380	"	0.100		86.1	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0892	0.00200	"	0.100		89.2	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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 - Four Raith Unit 1

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 B4A1703 - EPA 5030 (soil)										
Matrix Spike (B4A1703-MS1)		Source: Y401362-01			Prepared: 01/17/2024 Analyzed: 01/18/2024					
1,2,4-Trimethylbenzene	0.0743	0.00200	mg/kg	0.100	ND	74.3	70-130			
1,3,5-Trimethylbenzene	0.0724	0.00200	"	0.100	ND	72.4	70-130			
Benzene	0.0806	0.00200	"	0.100	ND	80.6	70-130			
Ethylbenzene	0.0763	0.00200	"	0.100	ND	76.3	70-130			
Naphthalene	0.0829	0.00380	"	0.100	ND	82.9	70-130			
Toluene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
o-Xylene	0.0723	0.00200	"	0.100	ND	72.3	70-130			
m,p-Xylene	0.154	0.00400	"	0.200	ND	76.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1703 - EPA 5030 (soil)										
Matrix Spike Dup (B4A1703-MSD1)		Source: Y401362-01			Prepared: 01/17/2024 Analyzed: 01/17/2024					
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130	17.7	20	
1,3,5-Trimethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130	18.8	20	
Benzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	13.6	20	
Ethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	17.8	20	
Naphthalene	0.0915	0.00380	"	0.100	ND	91.5	70-130	9.88	20	
Toluene	0.0981	0.00200	"	0.100	ND	98.1	70-130	17.7	20	
o-Xylene	0.0866	0.00200	"	0.100	ND	86.6	70-130	17.9	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.6	70-130	16.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.8	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 - Four Raith Unit 1

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 B4A1035 - EPA 3050B

Blank (B4A1035-BLK1)

Prepared: 01/10/2024 Analyzed: 01/13/2024

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

LCS (B4A1035-BS1)

Prepared: 01/10/2024 Analyzed: 01/13/2024

Arsenic	5.13	0.0100	mg/kg	5.00	103	80-120
Barium	506	1.00	"	500	101	80-120
Cadmium	4.82	0.0100	"	5.00	96.4	80-120
Copper	51.4	1.00	"	50.0	103	80-120
Lead	5.06	0.100	"	5.00	101	80-120
Nickel	5.13	0.100	"	5.00	103	80-120
Selenium	4.63	0.0100	"	5.00	92.7	80-120

Matrix Spike (B4A1035-MS1)

Source: Y401217-01

Prepared: 01/10/2024 Analyzed: 01/13/2024

Arsenic	6.10	0.0932	mg/kg	4.66	1.53	97.9	75-125
Barium	517	9.32	"	466	41.5	102	75-125
Cadmium	4.66	0.0932	"	4.66	0.0886	98.1	75-125
Copper	47.2	9.32	"	46.6	4.91	90.8	75-125

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1035 - EPA 3050B

Matrix Spike (B4A1035-MS1)		Source: Y401217-01			Prepared: 01/10/2024 Analyzed: 01/13/2024					
Lead	14.2	0.932	mg/kg	4.66	10.4	81.2	75-125			
Nickel	7.14	0.932	"	4.66	2.98	89.2	75-125			
Selenium	4.25	0.0932	"	4.66	0.0701	89.6	75-125			
Matrix Spike Dup (B4A1035-MSD1)		Source: Y401217-01			Prepared: 01/10/2024 Analyzed: 01/13/2024					
Arsenic	5.87	0.0882	mg/kg	4.41	1.53	98.3	75-125	3.75	20	
Barium	483	8.82	"	441	41.5	100	75-125	6.74	20	
Cadmium	4.36	0.0882	"	4.41	0.0886	96.9	75-125	6.68	20	
Copper	47.2	8.82	"	44.1	4.91	96.0	75-125	0.0244	20	
Lead	18.6	0.882	"	4.41	10.4	186	75-125	26.8	20	QM-07
Nickel	7.15	0.882	"	4.41	2.98	94.5	75-125	0.139	20	
Selenium	4.05	0.0882	"	4.41	0.0701	90.2	75-125	4.75	20	

Batch B4A1036 - EPA 3050B

Blank (B4A1036-BLK1)		Prepared: 01/10/2024 Analyzed: 01/18/2024								
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
LCS (B4A1036-BS1)		Prepared: 01/10/2024 Analyzed: 01/16/2024								
Arsenic	4.98	0.0100	mg/kg	5.00		99.7	80-120			
Barium	485	1.00	"	500		96.9	80-120			
Cadmium	5.19	0.0100	"	5.00		104	80-120			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1036 - EPA 3050B

LCS (B4A1036-BS1)

Prepared: 01/10/2024 Analyzed: 01/16/2024

Copper	43.6	1.00	"	50.0		87.3	80-120
Lead	5.17	0.100	"	5.00		103	80-120
Nickel	4.45	0.100	"	5.00		88.9	80-120
Selenium	4.67	0.0100	"	5.00		93.5	80-120

Matrix Spike (B4A1036-MS1)

Source: Y401210-01

Prepared: 01/10/2024 Analyzed: 01/16/2024

Arsenic	7.24	0.0891	mg/kg	4.46	3.56	82.5	75-125
Barium	539	8.91	"	446	45.8	111	75-125
Cadmium	5.21	0.0891	"	4.46	0.0747	115	75-125
Copper	55.5	8.91	"	44.6	7.66	107	75-125
Lead	10.6	0.891	"	4.46	6.43	94.3	75-125
Nickel	9.10	0.891	"	4.46	7.92	26.4	75-125
Selenium	5.07	0.0891	"	4.46	0.116	111	75-125

QM-07

Matrix Spike Dup (B4A1036-MSD1)

Source: Y401210-01

Prepared: 01/10/2024 Analyzed: 01/16/2024

Arsenic	7.79	0.0909	mg/kg	4.54	3.56	93.2	75-125	7.45	20
Barium	542	9.09	"	454	45.8	109	75-125	0.577	20
Cadmium	5.34	0.0909	"	4.54	0.0747	116	75-125	2.41	20
Copper	55.9	9.09	"	45.4	7.66	106	75-125	0.783	20
Lead	11.5	0.909	"	4.54	6.43	112	75-125	8.19	20
Nickel	12.0	0.909	"	4.54	7.92	88.7	75-125	27.2	20
Selenium	4.67	0.0909	"	4.54	0.116	100	75-125	8.24	20

QM-07

Batch B4A1617 - EPA 3050B

Blank (B4A1617-BLK1)

Prepared: 01/16/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1617 - EPA 3050B										
Blank (B4A1617-BLK1)					Prepared: 01/16/2024 Analyzed: 01/25/2024					
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
LCS (B4A1617-BS1)					Prepared: 01/16/2024 Analyzed: 01/22/2024					
Arsenic	4.55	0.0100	mg/kg	5.00		91.1	80-120			
Barium	446	1.00	"	500		89.1	80-120			
Cadmium	4.88	0.0100	"	5.00		97.6	80-120			
Copper	47.1	1.00	"	50.0		94.2	80-120			
Lead	4.57	0.100	"	5.00		91.3	80-120			
Nickel	4.86	0.100	"	5.00		97.2	80-120			
Selenium	4.44	0.0100	"	5.00		88.8	80-120			
Matrix Spike (B4A1617-MS1)					Source: Y401024-02		Prepared: 01/16/2024 Analyzed: 01/22/2024			
Arsenic	6.27	0.0920	mg/kg	4.60	2.45	83.2	75-125			
Barium	469	9.20	"	460	87.2	82.9	75-125			
Cadmium	4.98	0.0920	"	4.60	0.136	105	75-125			
Copper	54.0	9.20	"	46.0	8.17	99.5	75-125			
Lead	12.9	0.920	"	4.60	7.58	116	75-125			
Nickel	11.9	0.920	"	4.60	6.88	109	75-125			
Selenium	4.40	0.0920	"	4.60	0.158	92.2	75-125			
Matrix Spike Dup (B4A1617-MSD1)					Source: Y401024-02		Prepared: 01/16/2024 Analyzed: 01/22/2024			
Arsenic	6.42	0.0948	mg/kg	4.74	2.45	83.9	75-125	2.30	20	
Barium	469	9.48	"	474	87.2	80.6	75-125	0.0527	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 - Four Raith Unit 1

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 B4A1617 - EPA 3050B

Matrix Spike Dup (B4A1617-MSD1)		Source: Y401024-02			Prepared: 01/16/2024 Analyzed: 01/22/2024					
Cadmium	4.78	0.0948	mg/kg	4.74	0.136	98.0	75-125	4.17	20	
Copper	52.1	9.48	"	47.4	8.17	92.6	75-125	3.61	20	
Lead	12.6	0.948	"	4.74	7.58	105	75-125	2.81	20	
Nickel	11.6	0.948	"	4.74	6.88	99.5	75-125	2.60	20	
Selenium	4.34	0.0948	"	4.74	0.158	88.3	75-125	1.38	20	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1003 - EPA 3580

Blank (B4A1003-BLK1)

Prepared: 01/10/2024 Analyzed: 01/10/2024

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/kg	200	101	60-130
Surrogate: Anthracene-d10	210		"	200	105	60-130
Surrogate: Pyrene-d10	200		"	200	97.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	99.0	60-130

LCS (B4A1003-BS1)

Prepared: 01/10/2024 Analyzed: 01/10/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	95.6	70-130
2-Methylnaphthalene	0.186	0.002	"	0.200	93.0	70-130
Acenaphthene	0.182	0.020	"	0.200	90.9	70-130
Anthracene	0.188	0.020	"	0.200	94.2	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 - Four Raith Unit 1

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 B4A1003 - EPA 3580

LCS (B4A1003-BS1)

Prepared: 01/10/2024 Analyzed: 01/10/2024

Benzo (a) anthracene	0.193	0.005	mg/kg	0.200		96.3	70-130
Benzo (a) pyrene	0.212	0.020	"	0.200		106	70-130
Benzo (b) fluoranthene	0.182	0.020	"	0.200		90.9	70-130
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		94.0	70-130
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.3	70-130
Chrysene	0.188	0.020	"	0.200		94.1	70-130
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		92.9	70-130
Fluoranthene	0.190	0.020	"	0.200		94.8	70-130
Fluorene	0.176	0.020	"	0.200		87.8	70-130
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		86.9	70-130
Naphthalene	0.192	0.002	"	0.200		96.0	70-130
Phenanthrene	0.203	0.020	"	0.200		102	70-130
Pyrene	0.188	0.020	"	0.200		94.0	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130
Surrogate: Anthracene-d10	210		"	200		107	60-130
Surrogate: Pyrene-d10	200		"	200		99.0	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130

Matrix Spike (B4A1003-MS1)

Source: Y401199-01

Prepared: 01/10/2024 Analyzed: 01/10/2024

1-Methylnaphthalene	0.176	0.002	mg/kg	0.200	ND	88.0	70-130
2-Methylnaphthalene	0.173	0.002	"	0.200	ND	86.5	70-130
Acenaphthene	0.167	0.020	"	0.200	ND	83.6	70-130
Anthracene	0.173	0.020	"	0.200	0.001	85.6	70-130
Benzo (a) anthracene	0.174	0.005	"	0.200	0.0007	86.8	70-130
Benzo (a) pyrene	0.177	0.020	"	0.200	ND	88.7	70-130
Benzo (b) fluoranthene	0.167	0.020	"	0.200	0.001	82.9	70-130
Benzo (g,h,i) perylene	0.169	0.020	"	0.200	ND	84.3	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 - Four Raith Unit 1

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 B4A1003 - EPA 3580

Matrix Spike (B4A1003-MS1)		Source: Y401199-01			Prepared: 01/10/2024 Analyzed: 01/10/2024					
Benzo (k) fluoranthene	0.161	0.020	mg/kg	0.200	0.001	80.2	70-130			
Chrysene	0.175	0.020	"	0.200	0.0007	87.1	70-130			
Dibenz (a,h) anthracene	0.161	0.020	"	0.200	ND	80.5	70-130			
Fluoranthene	0.171	0.020	"	0.200	0.0007	85.3	70-130			
Fluorene	0.162	0.020	"	0.200	ND	80.9	70-130			
Indeno (1,2,3-cd) pyrene	0.155	0.020	"	0.200	ND	77.4	70-130			
Naphthalene	0.175	0.002	"	0.200	ND	87.3	70-130			
Phenanthrene	0.183	0.020	"	0.200	ND	91.7	70-130			
Pyrene	0.173	0.020	"	0.200	ND	86.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

Matrix Spike Dup (B4A1003-MSD1)		Source: Y401199-01			Prepared: 01/10/2024 Analyzed: 01/10/2024					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.6	70-130	6.16	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.8	70-130	5.96	20	
Acenaphthene	0.179	0.020	"	0.200	ND	89.7	70-130	7.08	20	
Anthracene	0.183	0.020	"	0.200	0.001	90.9	70-130	6.00	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	0.0007	92.1	70-130	5.87	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	101	70-130	12.6	20	
Benzo (b) fluoranthene	0.180	0.020	"	0.200	0.001	89.4	70-130	7.47	20	
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	ND	91.1	70-130	7.66	20	
Benzo (k) fluoranthene	0.185	0.020	"	0.200	0.001	91.8	70-130	13.4	20	
Chrysene	0.181	0.020	"	0.200	0.0007	90.3	70-130	3.58	20	
Dibenz (a,h) anthracene	0.176	0.020	"	0.200	ND	87.8	70-130	8.69	20	
Fluoranthene	0.182	0.020	"	0.200	0.0007	90.5	70-130	5.95	20	

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Project: KMG - Four Raith Unit 1

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 B4A1003 - EPA 3580

Matrix Spike Dup (B4A1003-MSD1)		Source: Y401199-01			Prepared: 01/10/2024 Analyzed: 01/10/2024					
Fluorene	0.173	0.020	mg/kg	0.200	ND	86.5	70-130	6.74	20	
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200	ND	83.9	70-130	8.16	20	
Naphthalene	0.188	0.002	"	0.200	ND	93.9	70-130	7.19	20	
Phenanthrene	0.194	0.020	"	0.200	ND	97.2	70-130	5.81	20	
Pyrene	0.183	0.020	"	0.200	ND	91.4	70-130	5.38	20	
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		97.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

Batch B4A1602 - EPA 3580

Blank (B4A1602-BLK1)		Prepared: 01/16/2024 Analyzed: 01/18/2024								
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

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Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1602 - EPA 3580

Blank (B4A1602-BLK1)

Prepared: 01/16/2024 Analyzed: 01/18/2024

Naphthalene	ND	0.002	mg/kg							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

LCS (B4A1602-BS1)

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		98.8	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.5	70-130			
Acenaphthene	0.186	0.020	"	0.200		92.9	70-130			
Anthracene	0.194	0.020	"	0.200		97.0	70-130			
Benzo (a) anthracene	0.218	0.005	"	0.200		109	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.3	70-130			
Benzo (b) fluoranthene	0.247	0.020	"	0.200		124	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200		109	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130			
Chrysene	0.207	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Fluorene	0.182	0.020	"	0.200		90.8	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130			
Naphthalene	0.194	0.002	"	0.200		97.0	70-130			
Phenanthrene	0.190	0.020	"	0.200		95.0	70-130			
Pyrene	0.245	0.020	"	0.200		123	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130			

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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1602 - EPA 3580

LCS (B4A1602-BS1)

Prepared: 01/16/2024 Analyzed: 01/17/2024

Surrogate: Anthracene-d10	200		ug/kg	200		100	60-130
Surrogate: Pyrene-d10	200		"	200		102	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130

Matrix Spike (B4A1602-MS1)

Source: Y401200-01

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.297	0.002	mg/kg	0.200	0.066	115	70-130
2-Methylnaphthalene	0.366	0.002	"	0.200	0.159	103	70-130
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130
Anthracene	0.209	0.020	"	0.200	0.004	103	70-130
Benzo (a) anthracene	0.208	0.005	"	0.200	0.003	102	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200	0.001	113	70-130
Benzo (b) fluoranthene	0.233	0.020	"	0.200	0.002	116	70-130
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130
Benzo (k) fluoranthene	0.224	0.020	"	0.200	0.003	111	70-130
Chrysene	0.219	0.020	"	0.200	0.0008	109	70-130
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	ND	120	70-130
Fluoranthene	0.237	0.020	"	0.200	0.004	117	70-130
Fluorene	0.201	0.020	"	0.200	0.018	91.5	70-130
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.001	115	70-130
Naphthalene	0.217	0.002	"	0.200	0.008	105	70-130
Phenanthrene	0.249	0.020	"	0.200	0.040	105	70-130
Pyrene	0.257	0.020	"	0.200	0.003	127	70-130

Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130
Surrogate: Anthracene-d10	210		"	200		103	60-130
Surrogate: Pyrene-d10	230		"	200		114	60-130
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130

Matrix Spike Dup (B4A1602-MSD1)

Source: Y401200-01

Prepared: 01/16/2024 Analyzed: 01/17/2024

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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
Batch B4A1602 - EPA 3580										
1-Methylnaphthalene	0.264	0.002	mg/kg	0.200	0.066	98.9	70-130	11.8	20	
2-Methylnaphthalene	0.362	0.002	"	0.200	0.159	102	70-130	1.10	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130	4.25	20	
Anthracene	0.200	0.020	"	0.200	0.004	98.1	70-130	4.60	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.003	100	70-130	1.79	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.001	110	70-130	2.57	20	
Benzo (b) fluoranthene	0.268	0.020	"	0.200	0.002	133	70-130	13.8	20	QM-07
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130	0.238	20	
Benzo (k) fluoranthene	0.259	0.020	"	0.200	0.003	128	70-130	14.6	20	
Chrysene	0.218	0.020	"	0.200	0.0008	109	70-130	0.567	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	ND	113	70-130	6.22	20	
Fluoranthene	0.212	0.020	"	0.200	0.004	104	70-130	11.2	20	
Fluorene	0.194	0.020	"	0.200	0.018	87.7	70-130	3.77	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	0.001	101	70-130	13.5	20	
Naphthalene	0.208	0.002	"	0.200	0.008	100	70-130	4.08	20	
Phenanthrene	0.240	0.020	"	0.200	0.040	100	70-130	3.74	20	
Pyrene	0.218	0.020	"	0.200	0.003	108	70-130	16.4	20	
Surrogate: Fluorene-d10	180		ug/kg	200		87.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1113 - DTPA Sorbitol Preparation										
Blank (B4A1113-BLK1)					Prepared: 01/11/2024 Analyzed: 01/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A1113-DUP1)					Source: Y401210-05 Prepared: 01/11/2024 Analyzed: 01/12/2024					
Boron	0.475	0.0988	mg/L		0.702			38.7	50	
Batch B4A1114 - DTPA Sorbitol Preparation										
Blank (B4A1114-BLK1)					Prepared: 01/11/2024 Analyzed: 01/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A1114-DUP1)					Source: Y401169-01 Prepared: 01/11/2024 Analyzed: 01/12/2024					
Boron	0.545	0.100	mg/L		0.502			8.25	50	
Batch B4A1118 - Saturated Paste Metals										
Blank (B4A1118-BLK1)					Prepared: 01/11/2024 Analyzed: 01/15/2024					
Calcium PPM	ND	1.00	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	1.00	mg/L							
Sodium PPM	ND	1.00	"							
Duplicate (B4A1118-DUP1)					Source: Y401210-07 Prepared: 01/11/2024 Analyzed: 01/15/2024					
SAR	ND	0.0100	SAR		0.159				200	
Calcium PPM	15.1	10.0	mg/L		17.7			16.1	50	
Magnesium PPM	4.09	10.0	"		4.69			13.7	50	
Sodium PPM	2.59	10.0	"		2.92			12.0	50	

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Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1119 - Saturated Paste Metals

Blank (B4A1119-BLK1)

Prepared: 01/11/2024 Analyzed: 01/15/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	1.00	mg/L
Magnesium PPM	ND	1.00	"
Sodium PPM	ND	1.00	"

Duplicate (B4A1119-DUP1)

Source: Y401219-08

Prepared: 01/11/2024 Analyzed: 01/15/2024

Calcium PPM	16.4	10.0	mg/L	15.9	3.28	50
SAR	ND	0.0100	SAR	12.3		200
Magnesium PPM	27.6	10.0	mg/L	28.0	1.37	50
Sodium PPM	359	10.0	"	353	1.63	50

Batch B4A1705 - Saturated Paste Metals

Blank (B4A1705-BLK1)

Prepared: 01/17/2024 Analyzed: 01/18/2024

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

Duplicate (B4A1705-DUP1)

Source: Y401353-01

Prepared: 01/17/2024 Analyzed: 01/18/2024

Calcium PPM	24.3	10.0	mg/L	22.9	5.90	50
SAR	ND	0.0100	SAR	0.354		200
Magnesium PPM	6.00	10.0	mg/L	5.77	3.91	50
Sodium PPM	8.10	10.0	"	7.32	10.1	50

Batch B4A1706 - DTPA Sorbitol Preparation

Blank (B4A1706-BLK1)

Prepared: 01/17/2024 Analyzed: 01/18/2024

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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4A1706 - DTPA Sorbitol Preparation										
Blank (B4A1706-BLK1)					Prepared: 01/17/2024 Analyzed: 01/18/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A1706-DUP1)					Source: Y401024-02 Prepared: 01/17/2024 Analyzed: 01/18/2024					
Boron	0.558	0.0999	mg/L		0.559			0.0684	50	

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Project Number: [none]
Project: KMG - Four Raith Unit 1

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1122 - Saturated Paste pH/EC										
Duplicate (B4A1122-DUP1)		Source: Y401210-07			Prepared: 01/11/2024 Analyzed: 01/12/2024					
pH	8.18		pH Units		8.10			0.983	25	
Batch B4A1123 - Saturated Paste pH/EC										
Duplicate (B4A1123-DUP1)		Source: Y401219-08			Prepared: 01/11/2024 Analyzed: 01/12/2024					
pH	8.58		pH Units		8.55			0.350	25	
Batch B4A1708 - Saturated Paste pH/EC										
Duplicate (B4A1708-DUP1)		Source: Y401024-02			Prepared: 01/17/2024 Analyzed: 01/18/2024					
pH	7.94		pH Units		7.99			0.628	25	

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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Four Raith Unit 1

Notes and Definitions

U Sample is Non-Detect.

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

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

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.



March 29, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Four Raith Unit 1

Project Number - [none]

Attached are your analytical results for KMG - Four Raith Unit 1 received by Origins Laboratory, Inc. March 12, 2024. This project is associated with Origins project number Y403345-01.

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 - Four Raith Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B10@20'	Y403345-01	Soil	March 12, 2024 14:15	03/12/2024 16:50
WH-B11@20'	Y403345-02	Soil	March 12, 2024 14:17	03/12/2024 16:50
WH-S09@15'	Y403345-03	Soil	March 12, 2024 14:19	03/12/2024 16:50
WH-S10@15'	Y403345-04	Soil	March 12, 2024 14:21	03/12/2024 16:50
WH-E09@15'	Y403345-05	Soil	March 12, 2024 14:23	03/12/2024 16:50
WH-E08@15'	Y403345-06	Soil	March 12, 2024 14:25	03/12/2024 16:50
WH-BG06@7'	Y403345-07	Soil	March 12, 2024 14:27	03/12/2024 16:50
WH-BG06@15'	Y403345-08	Soil	March 12, 2024 14:29	03/12/2024 16:50
WH-BG07@7'	Y403345-09	Soil	March 12, 2024 14:31	03/12/2024 16:50
WH-BG07@15'	Y403345-10	Soil	March 12, 2024 14:33	03/12/2024 16:50
WH-BG08@7'	Y403345-11	Soil	March 12, 2024 14:35	03/12/2024 16:50
WH-BG08@15'	Y403345-12	Soil	March 12, 2024 14:37	03/12/2024 16:50
WH-BG09@7'	Y403345-13	Soil	March 12, 2024 14:39	03/12/2024 16:50
WH-BG09@15'	Y403345-14	Soil	March 12, 2024 14:41	03/12/2024 16:50

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 - Four Raith Unit 1

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 - Four Raith Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1403345 Client: Eagle
Client Project ID: Fourth Raith

Checklist Completed by: JAN/SA Shipped Via: HD
Date/time completed: 3/12/14 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 110 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: 1004

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

Reviewed by (Project Manager) JAN Date/Time Reviewed 3/12/14

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 - Four Raith Unit 1

WH-B10@20'
3/12/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.666	0.0999	mg/L	1	B4C1317	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	54.4	25.0	mg/kg	1	B4C1238	ADM	03/12/2024	03/13/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.177	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	
1,3,5-Trimethylbenzene	0.0951	0.00200	"	"	"	HK	"	"	
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	0.00864	0.00200	"	"	"	HK	"	"	
Xylenes, total	0.166	0.00200	"	"	"	HK	"	"	
Gasoline Range Hydrocarbons	14.0	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.01	0.499	meq/L	10	[CALC]	ACC	03/15/2024	03/18/2024	
Magnesium	4.02	0.823	"	"	"	ACC	"	"	

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 - Four Raith Unit 1

WH-B10@20'
3/12/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-01 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	5.48	0.435	meq/L	10	[CALC]	ACC	03/15/2024	03/18/2024
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PAH by EPA 8270E

1-Methylnaphthalene	0.147	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024
2-Methylnaphthalene	0.338	0.002	"	"	"	Windo	"	"
Acenaphthene	0.021	0.020	"	"	"	Windo	"	"
Anthracene	ND	0.020	"	"	"	Windo	"	" U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	" U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	" U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	" U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	" U
Chrysene	ND	0.020	"	"	"	Windo	"	" U
Fluoranthene	ND	0.020	"	"	"	Windo	"	" U
Fluorene	0.024	0.020	"	"	"	Windo	"	"
Naphthalene	0.078	0.002	"	"	"	Windo	"	"
Pyrene	ND	0.020	"	"	"	Windo	"	" U

Surrogate: Fluorene-d10	99.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	108 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.5 %	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 - Four Raith Unit 1

WH-B10@20'

3/12/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-01 (Soil)

pH in Soil by 9045D

pH	8.20		pH Units	1	B4C1522	GCG	03/15/2024	03/18/2024
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SAR by 20B Saturated Paste

SAR	2.45	0.0100	SAR	1	B4C1514	ZZZ	03/15/2024	03/18/2024
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Table 915 metals by EPA 6020B

Arsenic	12.3	0.256	mg/kg	10	B4C1241	HJD	03/12/2024	03/23/2024
Barium	35.9	8.82	"	"	"	HJD	"	"
Cadmium	0.251	0.0882	"	"	"	HJD	"	"
Copper	18.4	8.82	"	"	"	HJD	"	"
Lead	17.4	0.882	"	"	"	HJD	"	"
Nickel	13.4	0.882	"	"	"	HJD	"	"
Selenium	0.261	0.229	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-B11@20'
3/12/2024 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06	0.0996	mg/L	1	B4C1317	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.6	25.0	mg/kg	1	B4C1238	ADM	03/12/2024	03/13/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0415	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	
1,3,5-Trimethylbenzene	0.00844	0.00200	"	"	"	HK	"	"	
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	0.00588	0.00200	"	"	"	HK	"	"	
Gasoline Range Hydrocarbons	8.82	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	10.1	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024	
Magnesium	7.95	0.823	"	"	"	ACC	"	"	

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 - Four Raith Unit 1

WH-B11@20'
3/12/2024 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-02 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	10.8	0.435	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
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PAH by EPA 8270E

1-Methylnaphthalene	0.029	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024	
2-Methylnaphthalene	0.053	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.006	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.3 %	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 - Four Raith Unit 1

WH-B11@20'
3/12/2024 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-02 (Soil)

pH in Soil by 9045D

pH	8.23		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.59	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	7.27	0.261	mg/kg	10	B4C1241	HJD	03/12/2024	03/23/2024
Barium	38.5	9.01	"	"	"	HJD	"	"
Cadmium	0.240	0.0901	"	"	"	HJD	"	"
Copper	13.5	9.01	"	"	"	HJD	"	"
Lead	12.5	0.901	"	"	"	HJD	"	"
Nickel	11.0	0.901	"	"	"	HJD	"	"
Selenium	ND	0.234	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S09@15'
3/12/2024 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.92	0.0995	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C1238	ADM	03/12/2024	03/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	107 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.47	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S09@15'

3/12/2024 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-03 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	7.65	0.823	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Sodium	12.2	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.6 %	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 - Four Raith Unit 1

WH-S09@15'
3/12/2024 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-03 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	96.5 %	60-130			B4C12 36	03/12/2024	03/12/2024
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pH in Soil by 9045D

pH	8.34		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	5.18	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	8.08	0.277	mg/kg	10	B4C1241	HJD	03/12/2024	03/23/2024
Barium	32.1	9.55	"	"	"	HJD	"	"
Cadmium	ND	0.0955	"	"	"	HJD	"	"
Copper	12.6	9.55	"	"	"	HJD	"	"
Lead	13.0	0.955	"	"	"	HJD	"	"
Nickel	3.62	0.955	"	"	"	HJD	"	"
Selenium	ND	0.248	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-S10@15'
3/12/2024 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.42	0.0988	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C1238	ADM	03/12/2024	03/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	107 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.71	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-S10@15'

3/12/2024 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-04 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	7.99	0.823	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Sodium	10.5	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	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 - Four Raith Unit 1

WH-S10@15'
3/12/2024 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130			B4C12 36	03/12/2024	03/12/2024
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pH in Soil by 9045D

pH	8.31		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.73	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	27.9	0.261	mg/kg	10	B4C1241	HJD	03/12/2024	03/23/2024
Barium	51.4	8.99	"	"	"	HJD	"	"
Cadmium	0.143	0.0899	"	"	"	HJD	"	"
Copper	14.5	8.99	"	"	"	HJD	"	"
Lead	18.3	0.899	"	"	"	HJD	"	"
Nickel	4.76	0.899	"	"	"	HJD	"	"
Selenium	0.418	0.234	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-E09@15'
3/12/2024 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.50	0.100	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C1238	ADM	03/12/2024	03/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	107 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.59	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
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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 - Four Raith Unit 1

WH-E09@15'
3/12/2024 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-05 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	3.60	0.823	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Sodium	9.81	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/13/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.5 %	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 - Four Raith Unit 1

WH-E09@15'
3/12/2024 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130			B4C12 36	03/12/2024	03/13/2024
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pH in Soil by 9045D

pH	8.28		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	5.58	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	9.68	0.270	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	47.5	9.32	"	"	"	HJD	"	"
Cadmium	0.354	0.0932	"	"	"	HJD	"	"
Copper	ND	9.32	"	"	"	HJD	"	"
Lead	10.1	0.932	"	"	"	HJD	"	"
Nickel	14.1	0.932	"	"	"	HJD	"	"
Selenium	0.337	0.242	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-E08@15'
3/12/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06	0.102	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C1238	ZZZ	03/12/2024	03/13/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	91.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C1235	HK	03/12/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	1.59	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.03	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024	
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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 - Four Raith Unit 1

WH-E08@15'
3/12/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-06 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	2.98	0.823	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Sodium	7.96	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/13/2024	
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	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 - Four Raith Unit 1

WH-E08@15'
3/12/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-06 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.3 %	60-130			B4C12 36	03/12/2024	03/13/2024
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pH in Soil by 9045D

pH	8.42		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	5.03	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	13.2	0.272	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	48.4	9.39	"	"	"	HJD	"	"
Cadmium	0.308	0.0939	"	"	"	HJD	"	"
Copper	10.9	9.39	"	"	"	HJD	"	"
Lead	23.7	0.939	"	"	"	HJD	"	"
Nickel	11.3	0.939	"	"	"	HJD	"	"
Selenium	0.653	0.244	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG06@7'

3/12/2024 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.32	0.0993	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.8	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	29.2	0.823	"	"	"	ACC	"	"
Sodium	24.8	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	4.82	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.65	0.248	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	119	8.54	"	"	"	HJD	"	"
Cadmium	0.414	0.0854	"	"	"	HJD	"	"
Copper	10.9	8.54	"	"	"	HJD	"	"
Lead	10.5	0.854	"	"	"	HJD	"	"
Nickel	11.4	0.854	"	"	"	HJD	"	"
Selenium	0.425	0.222	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-BG06@15
3/12/2024 2:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.92	0.102	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.3	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	32.0	0.823	"	"	"	ACC	"	"
Sodium	26.1	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	4.96	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.96	0.256	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	47.8	8.82	"	"	"	HJD	"	"
Cadmium	0.352	0.0882	"	"	"	HJD	"	"
Copper	12.0	8.82	"	"	"	HJD	"	"
Lead	10.1	0.882	"	"	"	HJD	"	"
Nickel	14.1	0.882	"	"	"	HJD	"	"
Selenium	0.335	0.229	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-BG07@7'

3/12/2024 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.33	0.101	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.8	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	32.0	0.823	"	"	"	ACC	"	"
Sodium	20.4	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.07		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.87	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.33	0.285	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	46.0	9.83	"	"	"	HJD	"	"
Cadmium	0.273	0.0983	"	"	"	HJD	"	"
Copper	15.9	9.83	"	"	"	HJD	"	"
Lead	12.0	0.983	"	"	"	HJD	"	"
Nickel	10.3	0.983	"	"	"	HJD	"	"
Selenium	0.503	0.256	"	"	"	HJD	"	"

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 - Four Raith Unit 1

WH-BG07@15'
3/12/2024 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403345-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.888	0.0988	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.5	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	25.5	0.823	"	"	"	ACC	"	"
Sodium	16.4	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.13		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.30	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.33	0.255	mg/kg	10	B4C1241	HJD	03/12/2024	03/26/2024
Barium	43.4	8.79	"	"	"	HJD	"	"
Cadmium	0.221	0.0879	"	"	"	HJD	"	"
Copper	9.69	8.79	"	"	"	HJD	"	"
Lead	9.19	0.879	"	"	"	HJD	"	"
Nickel	11.2	0.879	"	"	"	HJD	"	"
Selenium	ND	0.228	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG08@7'

3/12/2024 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-11 (Soil)

Boron (DTPA Sorbitol)

Boron	1.67	0.0996	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.37	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	16.3	0.823	"	"	"	ACC	"	"
Sodium	16.5	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.34		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	5.01	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.34	0.281	mg/kg	10	B4C1242	HJD	03/12/2024	03/26/2024
Barium	45.7	9.70	"	"	"	HJD	"	"
Cadmium	0.399	0.0970	"	"	"	HJD	"	"
Copper	20.7	9.70	"	"	"	HJD	"	"
Lead	16.4	0.970	"	"	"	HJD	"	"
Nickel	11.9	0.970	"	"	"	HJD	"	"
Selenium	0.494	0.252	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG08@15'
3/12/2024 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403345-12 (Soil)

Boron (DTPA Sorbitol)

Boron	1.26	0.0988	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	15.5	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	24.0	0.823	"	"	"	ACC	"	"
Sodium	18.0	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	4.06	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	4.04	0.269	mg/kg	10	B4C1242	HJD	03/12/2024	03/26/2024
Barium	58.3	9.27	"	"	"	HJD	"	"
Cadmium	0.360	0.0927	"	"	"	HJD	"	"
Copper	16.0	9.27	"	"	"	HJD	"	"
Lead	11.4	0.927	"	"	"	HJD	"	"
Nickel	14.6	0.927	"	"	"	HJD	"	"
Selenium	0.359	0.241	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG09@7'

3/12/2024 2:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.771	0.101	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.3	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	26.9	0.823	"	"	"	ACC	"	"
Sodium	17.9	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.19		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.56	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.38	0.289	mg/kg	10	B4C1242	HJD	03/12/2024	03/26/2024
Barium	50.2	9.97	"	"	"	HJD	"	"
Cadmium	0.232	0.0997	"	"	"	HJD	"	"
Copper	13.4	9.97	"	"	"	HJD	"	"
Lead	10.8	0.997	"	"	"	HJD	"	"
Nickel	12.8	0.997	"	"	"	HJD	"	"
Selenium	0.371	0.259	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

WH-BG09@15'
3/12/2024 2:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403345-14 (Soil)

Boron (DTPA Sorbitol)

Boron	1.09	0.101	mg/L	1	B4C1318	DT	03/13/2024	03/19/2024
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Metals by Saturated Paste by EPA 6010

Calcium	20.5	0.499	meq/L	10	[CALC]	ACC	03/13/2024	03/14/2024
Magnesium	23.1	0.823	"	"	"	ACC	"	"
Sodium	17.1	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.21		pH Units	1	B4C1324	EAL	03/13/2024	03/14/2024
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SAR by 20B Saturated Paste

SAR	3.67	0.0100	SAR	1	B4C1310	ACC	03/13/2024	03/14/2024
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Table 915 metals by EPA 6020B

Arsenic	3.28	0.288	mg/kg	10	B4C1242	HJD	03/12/2024	03/26/2024
Barium	51.0	9.92	"	"	"	HJD	"	"
Cadmium	0.402	0.0992	"	"	"	HJD	"	"
Copper	14.8	9.92	"	"	"	HJD	"	"
Lead	10.4	0.992	"	"	"	HJD	"	"
Nickel	13.8	0.992	"	"	"	HJD	"	"
Selenium	0.503	0.258	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1235 - EPA 5030 (soil)										
Blank (B4C1235-BLK1)					Prepared: 03/12/2024 Analyzed: 03/12/2024					
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		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	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 - Four Raith Unit 1

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 B4C1235 - EPA 5030 (soil)										
LCS (B4C1235-BS1)					Prepared: 03/12/2024 Analyzed: 03/12/2024					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0965	0.00200	"	0.100		96.5	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.0954	0.00380	"	0.100		95.4	70-130			
Toluene	0.0964	0.00200	"	0.100		96.4	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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 - Four Raith Unit 1

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 B4C1235 - EPA 5030 (soil)										
Matrix Spike (B4C1235-MS1)		Source: Y403331-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0997	0.00380	"	0.100	ND	99.7	70-130			
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1235 - EPA 5030 (soil)										
Matrix Spike Dup (B4C1235-MSD1)		Source: Y403331-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
1,2,4-Trimethylbenzene	0.0950	0.00200	mg/kg	0.100	ND	95.0	70-130	8.39	20	
1,3,5-Trimethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	9.08	20	
Benzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	2.75	20	
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130	9.43	20	
Naphthalene	0.0971	0.00380	"	0.100	ND	97.1	70-130	2.72	20	
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130	4.86	20	
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130	9.59	20	
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130	8.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	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 - Four Raith Unit 1

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 B4C1238 - EPA 3550B										
Blank (B4C1238-BLK1)					Prepared: 03/12/2024 Analyzed: 03/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.4	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 - Four Raith Unit 1

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 B4C1238 - EPA 3550B

LCS (B4C1238-BS1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

Diesel (C10-C28)	780	50.0	mg/kg	1000		78.0	70-130			
Residual Range Organics (C28-C40)	799	200	"	1000		79.9	70-130			
Surrogate: o-Terphenyl	55		"	49.8		112	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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1238 - EPA 3550B

Matrix Spike (B4C1238-MS1)		Source: Y403331-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
Diesel (C10-C28)	760	50.0	mg/kg	1000	ND	76.0	70-130			
Residual Range Organics (C28-C40)	772	200	"	1000	ND	77.2	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.8	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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1238 - EPA 3550B

Matrix Spike Dup (B4C1238-MSD1)		Source: Y403331-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
Diesel (C10-C28)	736	50.0	mg/kg	1000	ND	73.6	70-130	3.21	35	
Residual Range Organics (C28-C40)	747	200	"	1000	ND	74.7	70-130	3.24	35	
Surrogate: o-Terphenyl	40		"	49.8		79.7	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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1241 - EPA 3050B

Blank (B4C1241-BLK1)

Prepared: 03/12/2024 Analyzed: 03/23/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"

LCS (B4C1241-BS1)

Prepared: 03/12/2024 Analyzed: 03/23/2024

Arsenic	5.34	0.290	mg/kg	5.00	107	80-120
Barium	507	10.0	"	500	101	80-120
Cadmium	5.28	0.100	"	5.00	106	80-120
Copper	58.0	10.0	"	50.0	116	80-120
Lead	5.12	1.00	"	5.00	102	80-120
Nickel	5.52	1.00	"	5.00	110	80-120
Selenium	9.91	0.260	"	9.50	104	80-120

Matrix Spike (B4C1241-MS1)

Source: Y403337-07

Prepared: 03/12/2024 Analyzed: 03/23/2024

Arsenic	10.6	0.273	mg/kg	4.71	6.75	81.6	75-125
Barium	659	9.42	"	471	204	96.5	75-125
Cadmium	5.20	0.0942	"	4.71	0.298	104	75-125
Copper	69.2	9.42	"	47.1	20.1	104	75-125

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1241 - EPA 3050B

Matrix Spike (B4C1241-MS1)

Source: Y403337-07

Prepared: 03/12/2024 Analyzed: 03/23/2024

Lead	19.0	0.942	mg/kg	4.71	17.5	32.3	75-125			QM-07
Nickel	23.1	0.942	"	4.71	20.7	50.0	75-125			QM-07
Selenium	8.94	0.245	"	8.95	0.400	95.4	75-125			

Matrix Spike Dup (B4C1241-MSD1)

Source: Y403337-07

Prepared: 03/12/2024 Analyzed: 03/23/2024

Arsenic	9.90	0.249	mg/kg	4.30	6.75	73.3	75-125	6.76	20	QM-07
Barium	583	8.59	"	430	204	88.1	75-125	12.2	20	
Cadmium	4.73	0.0859	"	4.30	0.298	103	75-125	9.60	20	
Copper	63.5	8.59	"	43.0	20.1	101	75-125	8.54	20	
Lead	35.0	0.859	"	4.30	17.5	406	75-125	59.0	20	QR-DUP
Nickel	20.9	0.859	"	4.30	20.7	5.45	75-125	9.64	20	QM-07
Selenium	8.40	0.223	"	8.16	0.400	98.0	75-125	6.18	20	

Batch B4C1242 - EPA 3050B

Blank (B4C1242-BLK1)

Prepared: 03/12/2024 Analyzed: 03/26/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							

LCS (B4C1242-BS1)

Prepared: 03/12/2024 Analyzed: 03/26/2024

Arsenic	5.40	0.290	mg/kg	5.00		108	80-120			
Barium	533	10.0	"	500		107	80-120			
Cadmium	5.64	0.100	"	5.00		113	80-120			

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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1242 - EPA 3050B										
LCS (B4C1242-BS1)					Prepared: 03/12/2024 Analyzed: 03/26/2024					
Copper	56.4	10.0	"	50.0		113	80-120			
Lead	5.21	1.00	"	5.00		104	80-120			
Nickel	5.70	1.00	"	5.00		114	80-120			
Selenium	9.18	0.260	"	9.50		96.6	80-120			
Matrix Spike (B4C1242-MS1)					Source: Y403236-02		Prepared: 03/12/2024 Analyzed: 03/26/2024			
Arsenic	7.47	0.280	mg/kg	4.83	1.72	119	75-125			QM-07
Barium	580	9.66	"	483	44.2	111	75-125			
Cadmium	5.17	0.0966	"	4.83	0.117	105	75-125			
Copper	56.8	9.66	"	48.3	7.24	103	75-125			
Lead	10.2	0.966	"	4.83	6.69	71.9	75-125			QM-07
Nickel	12.5	0.966	"	4.83	4.44	167	75-125			QM-07
Selenium	7.66	0.251	"	9.18	0.310	80.1	75-125			
Matrix Spike Dup (B4C1242-MSD1)					Source: Y403236-02		Prepared: 03/12/2024 Analyzed: 03/26/2024			
Arsenic	7.33	0.278	mg/kg	4.79	1.72	117	75-125	1.82	20	
Barium	577	9.57	"	479	44.2	111	75-125	0.547	20	
Cadmium	5.12	0.0957	"	4.79	0.117	105	75-125	0.960	20	
Copper	55.7	9.57	"	47.9	7.24	101	75-125	1.92	20	
Lead	10.0	0.957	"	4.79	6.69	69.8	75-125	1.29	20	QM-07
Nickel	12.4	0.957	"	4.79	4.44	166	75-125	0.993	20	QM-07
Selenium	7.60	0.249	"	9.09	0.310	80.2	75-125	0.785	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 - Four Raith Unit 1

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 B4C1236 - EPA 3580

Blank (B4C1236-BLK1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

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/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			

LCS (B4C1236-BS1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.173	0.002	mg/kg	0.200		86.4	70-130			
2-Methylnaphthalene	0.174	0.002	"	0.200		87.1	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.1	70-130			
Anthracene	0.186	0.020	"	0.200		93.2	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 - Four Raith Unit 1

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 B4C1236 - EPA 3580

LCS (B4C1236-BS1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.5	70-130
Benzo (a) pyrene	0.170	0.020	"	0.200		85.2	70-130
Benzo (b) fluoranthene	0.173	0.020	"	0.200		86.4	70-130
Benzo (g,h,i) perylene	0.177	0.020	"	0.200		88.7	70-130
Benzo (k) fluoranthene	0.164	0.020	"	0.200		81.8	70-130
Chrysene	0.173	0.020	"	0.200		86.7	70-130
Dibenz (a,h) anthracene	0.174	0.020	"	0.200		87.1	70-130
Fluoranthene	0.184	0.020	"	0.200		91.9	70-130
Fluorene	0.182	0.020	"	0.200		91.2	70-130
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.0	70-130
Naphthalene	0.178	0.002	"	0.200		89.0	70-130
Phenanthrene	0.185	0.020	"	0.200		92.3	70-130
Pyrene	0.166	0.020	"	0.200		82.8	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	210		"	200		104	60-130
Surrogate: Pyrene-d10	180		"	200		92.3	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.7	60-130

Matrix Spike (B4C1236-MS1)

Source: Y403315-01

Prepared: 03/12/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.6	70-130
Acenaphthene	0.195	0.020	"	0.200	ND	97.7	70-130
Anthracene	0.195	0.020	"	0.200	0.0005	97.1	70-130
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	91.9	70-130
Benzo (a) pyrene	0.181	0.020	"	0.200	ND	90.7	70-130
Benzo (b) fluoranthene	0.187	0.020	"	0.200	0.002	92.3	70-130
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.0005	96.4	70-130

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1236 - EPA 3580

Matrix Spike (B4C1236-MS1)		Source: Y403315-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
Benzo (k) fluoranthene	0.181	0.020	mg/kg	0.200	0.002	89.8	70-130			
Chrysene	0.184	0.020	"	0.200	0.001	91.6	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	ND	95.9	70-130			
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130			
Fluorene	0.194	0.020	"	0.200	ND	96.9	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	0.002	95.1	70-130			
Naphthalene	0.197	0.002	"	0.200	0.003	96.6	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.1	70-130			
Pyrene	0.175	0.020	"	0.200	ND	87.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	180		"	200		90.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

Matrix Spike Dup (B4C1236-MSD1)		Source: Y403315-01			Prepared: 03/12/2024 Analyzed: 03/12/2024					
1-Methylnaphthalene	0.170	0.002	mg/kg	0.200	ND	85.0	70-130	10.4	20	
2-Methylnaphthalene	0.170	0.002	"	0.200	ND	85.2	70-130	10.5	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.7	70-130	10.8	20	
Anthracene	0.181	0.020	"	0.200	0.0005	90.1	70-130	7.45	20	
Benzo (a) anthracene	0.173	0.005	"	0.200	ND	86.6	70-130	5.95	20	
Benzo (a) pyrene	0.169	0.020	"	0.200	ND	84.3	70-130	7.32	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.002	87.6	70-130	5.15	20	
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.0005	85.8	70-130	11.6	20	
Benzo (k) fluoranthene	0.156	0.020	"	0.200	0.002	77.0	70-130	15.1	20	
Chrysene	0.166	0.020	"	0.200	0.001	82.4	70-130	10.5	20	
Dibenz (a,h) anthracene	0.174	0.020	"	0.200	ND	86.8	70-130	10.0	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.4	70-130	8.75	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 - Four Raith Unit 1

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
Batch B4C1236 - EPA 3580										
Matrix Spike Dup (B4C1236-MSD1)	Source: Y403315-01				Prepared: 03/12/2024 Analyzed: 03/12/2024					
Fluorene	0.177	0.020	mg/kg	0.200	ND	88.6	70-130	8.91	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	0.002	85.4	70-130	10.7	20	
Naphthalene	0.176	0.002	"	0.200	0.003	86.5	70-130	10.8	20	
Phenanthrene	0.182	0.020	"	0.200	ND	90.8	70-130	7.67	20	
Pyrene	0.158	0.020	"	0.200	ND	78.8	70-130	10.6	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	180		"	200		89.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	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 - Four Raith Unit 1

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 B4C1310 - Saturated Paste Metals

Blank (B4C1310-BLK1)

Prepared: 03/13/2024 Analyzed: 03/14/2024

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 (B4C1310-DUP1)

Source: Y403335-03

Prepared: 03/13/2024 Analyzed: 03/14/2024

Calcium PPM	22.4	10.0	mg/L	25.3	12.1	50
SAR	ND	0.0100	SAR	0.0375	200	
Magnesium PPM	4.68	10.0	mg/L	5.53	16.7	50
Sodium PPM	0.740	10.0	"	0.800	7.79	50

Batch B4C1317 - DTPA Sorbitol Preparation

Blank (B4C1317-BLK1)

Prepared: 03/13/2024 Analyzed: 03/19/2024

Boron	ND	0.100	mg/L
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Duplicate (B4C1317-DUP1)

Source: Y403335-01

Prepared: 03/13/2024 Analyzed: 03/19/2024

Boron	0.654	0.101	mg/L	0.383	52.2	50	QR-DUP
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Batch B4C1318 - DTPA Sorbitol Preparation

Blank (B4C1318-BLK1)

Prepared: 03/13/2024 Analyzed: 03/19/2024

Boron	ND	0.100	mg/L
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Duplicate (B4C1318-DUP1)

Source: Y403218-01

Prepared: 03/13/2024 Analyzed: 03/19/2024

Boron	0.0889	0.0990	mg/L	0.0884	0.581	50
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

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 B4C1514 - Saturated Paste Metals										
Blank (B4C1514-BLK1)					Prepared: 03/15/2024 Analyzed: 03/18/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4C1514-DUP1)					Source: Y403416-21 Prepared: 03/15/2024 Analyzed: 03/18/2024					
Calcium PPM	20.2	10.0	mg/L		23.3			14.7	50	
SAR	ND	0.0100	SAR		0.484				200	
Magnesium PPM	5.67	10.0	mg/L		5.09			10.8	50	
Sodium PPM	14.7	10.0	"		9.90			39.0	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 - Four Raith Unit 1

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C1324 - Saturated Paste pH/EC										
Duplicate (B4C1324-DUP1)		Source: Y403335-03			Prepared: 03/13/2024 Analyzed: 03/14/2024					
pH	8.12		pH Units		8.03			1.11	25	
Batch B4C1522 - Saturated Paste pH/EC										
Duplicate (B4C1522-DUP1)		Source: Y403416-21			Prepared: 03/15/2024 Analyzed: 03/18/2024					
pH	8.32		pH Units		8.33			0.120	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 - Four Raith Unit 1

Notes and Definitions

U Sample is Non-Detect.

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 at a wet weight basis.

Origins Laboratory, Inc.



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August 10, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - HSR - Cooper 12-10A

Project Number - [none]

Attached are your analytical results for KMG - HSR - Cooper 12-10A received by Origins Laboratory, Inc. July 31, 2023. This project is associated with Origins project number Y307693-01.

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
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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 - HSR - Cooper 12-10A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-BG01@3'	Y307693-01	Soil	July 31, 2023 12:30	07/31/2023 17:10
WH-BG01@6'	Y307693-02	Soil	July 31, 2023 12:32	07/31/2023 17:10
WH-BG02@3'	Y307693-03	Soil	July 31, 2023 12:34	07/31/2023 17:10
WH-BG02@6'	Y307693-04	Soil	July 31, 2023 12:36	07/31/2023 17:10
WH-BG03@3'	Y307693-05	Soil	July 31, 2023 12:38	07/31/2023 17:10
WH-BG03@6'	Y307693-06	Soil	July 31, 2023 12:40	07/31/2023 17:10
WH-BG04@3'	Y307693-07	Soil	July 31, 2023 12:42	07/31/2023 17:10
WH-BG04@6'	Y307693-08	Soil	July 31, 2023 12:44	07/31/2023 17:10

Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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LABORATORY, INC

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3071043

page 1 of 1

Initial

Client: Eagle Environmental (GRV)
Address: 8000 W. 44th ave
Wheat Ridge, CO 80033
Project Manager: D. Coloccia
Project Name: HSR - Cooper 12-10A
Project Number: -

Telephone Number: 303-433-0479
Email Address: dcoloccia@eagle-enviro.com
Samples Collected By: AK

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
WH-BG010.3'	7/31/23	1230	2	X	Soil	X	915 metals added 1
WH-BG010.6'		1232				X	to all samples 2
WH-BG020.3'		1234				X	per the phone call 3
WH-BG020.6'		1236				X	from Alice on 4
WH-BG030.3'		1238				X	8/2/23 5
WH-BG030.6'		1240				X	6
WH-BG040.3'		1242				X	7
WH-BG040.6'		1244				X	8
							9
							10
Relinquished By: <u>LT Rep</u>	Date: <u>7/31/23</u>	Time: <u>1210</u>	Received By: <u>AK</u>	Date: <u>7/31/23</u>	Time: <u>1210</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		

Temp Received: 13 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 - HSR - Cooper 12-10A

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: M307093

Client: Eagle

Client Project ID: HSR-Cooper 12-10A

Checklist Completed by: TSH/CHS

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, 13 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SD</u>
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 NaAsO ₂ +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.

Emmanuel
Reviewed by (Project Manager)

7/31/23
Date/Time Reviewed

Origins Laboratory, Inc.

Byron

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG01@3'

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B3H0105	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.779	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.73		pH Units	1	B3H0112	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	9.74		SAR	1	B3H0108	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.122	0.00500	mmhos/cm	1	B3H0112	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.07	0.0936	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	33.8	9.36	"	"	"	"	"
Cadmium	ND	0.0936	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG01@3'

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.36	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Lead	ND	9.36	"	"	"	"	"
Nickel	ND	9.36	"	"	"	"	"
Selenium	ND	0.0936	"	"	"	"	"
Silver	ND	0.0936	"	"	"	"	"
Zinc	ND	93.6	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	07/31/2023	08/09/2023
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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 - HSR - Cooper 12-10A

WH-BG01@6'

7/31/2023 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3H0105	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.783	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.57		pH Units	1	B3H0112	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	7.53		SAR	1	B3H0108	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.199	0.00500	mmhos/cm	1	B3H0112	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.10	0.0932	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	35.8	9.32	"	"	"	"	"
Cadmium	ND	0.0932	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG01@6'

7/31/2023 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.32	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Lead	ND	9.32	"	"	"	"	"
Nickel	ND	9.32	"	"	"	"	"
Selenium	ND	0.0932	"	"	"	"	"
Silver	ND	0.0932	"	"	"	"	"
Zinc	ND	93.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L696951	07/31/2023	08/04/2023
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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 - HSR - Cooper 12-10A

WH-BG02@3'

7/31/2023 12:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B3H0105	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.38	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.16		pH Units	1	B3H0112	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	7.80		SAR	1	B3H0108	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.204	0.00500	mmhos/cm	1	B3H0112	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.55	0.0929	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	39.2	9.29	"	"	"	"	"
Cadmium	ND	0.0929	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG02@3'

7/31/2023 12:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.29	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Lead	ND	9.29	"	"	"	"	"
Nickel	ND	9.29	"	"	"	"	"
Selenium	ND	0.0929	"	"	"	"	"
Silver	ND	0.0929	"	"	"	"	"
Zinc	ND	92.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L696951	07/31/2023	08/04/2023
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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 - HSR - Cooper 12-10A

WH-BG02@6'

7/31/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.103	0.101	mg/L	1	B3H0106	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.22	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.52	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B3H0113	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	8.93		SAR	1	B3H0109	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.486	0.00500	mmhos/cm	1	B3H0113	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	2.31	0.0972	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	69.9	9.72	"	"	"	"	"
Cadmium	ND	0.0972	"	"	"	"	"
Copper	ND	9.72	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG02@6'

7/31/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-04 (Soil)

Table 915 metals by EPA 6020B

Lead	9.84		9.72	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Nickel	ND		9.72	"	"	"	"	"
Selenium	0.152		0.0972	"	"	"	"	"
Silver	ND		0.0972	"	"	"	"	"
Zinc	ND		97.2	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L696951	07/31/2023	08/04/2023
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG03@3'

7/31/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3H0106	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.33	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B3H0113	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	9.80	SAR	1	B3H0109	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.192	0.00500	mmhos/cm	1	B3H0113	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.36	0.0877	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	43.6	8.77	"	"	"	"	"
Cadmium	ND	0.0877	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG03@3'

7/31/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.77	mg/kg	10	B3H0219	08/02/2023	08/04/2023	
Lead	ND		8.77	"	"	"	"	"	
Nickel	ND		8.77	"	"	"	"	"	
Selenium	ND		0.0877	"	"	"	"	"	
Silver	ND		0.0877	"	"	"	"	"	
Zinc	ND		87.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L696951	07/31/2023	08/04/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG03@6'

7/31/2023 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3H0106	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.32	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B3H0113	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	10.8		SAR	1	B3H0109	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.204	0.00500	mmhos/cm	1	B3H0113	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	1.16	0.0863	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	36.6	8.63	"	"	"	"	"
Cadmium	ND	0.0863	"	"	"	"	"

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 - HSR - Cooper 12-10A

WH-BG03@6'

7/31/2023 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.63	mg/kg	10	B3H0219	08/02/2023	08/04/2023	
Lead	ND		8.63	"	"	"	"	"	
Nickel	ND		8.63	"	"	"	"	"	
Selenium	ND		0.0863	"	"	"	"	"	
Silver	ND		0.0863	"	"	"	"	"	
Zinc	ND		86.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L696952	07/31/2023	08/04/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG04@3'

7/31/2023 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B3H0106	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.30	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.44		pH Units	1	B3H0113	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	10.7		SAR	1	B3H0109	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.197	0.00500	mmhos/cm	1	B3H0113	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	0.972	0.0910	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	40.3	9.10	"	"	"	"	"
Cadmium	ND	0.0910	"	"	"	"	"

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 - HSR - Cooper 12-10A

WH-BG04@3'

7/31/2023 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.10	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Lead	ND	9.10	"	"	"	"	"
Nickel	ND	9.10	"	"	"	"	"
Selenium	ND	0.0910	"	"	"	"	"
Silver	ND	0.0910	"	"	"	"	"
Zinc	ND	91.0	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L696952	07/31/2023	08/04/2023
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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 - HSR - Cooper 12-10A

WH-BG04@6'

7/31/2023 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B3H0106	08/01/2023	08/02/2023
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.22	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B3H0113	08/01/2023	08/02/2023
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SAR by 20B Saturated Paste

SAR	8.00		SAR	1	B3H0109	08/01/2023	08/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.227	0.00500	mmhos/cm	1	B3H0113	08/01/2023	08/02/2023
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Table 915 metals by EPA 6020B

Arsenic	0.943	0.0916	mg/kg	10	B3H0219	08/02/2023	08/04/2023
Barium	38.7	9.16	"	"	"	"	"
Cadmium	ND	0.0916	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

WH-BG04@6'

7/31/2023 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307693-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.16	mg/kg	10	B3H0219	08/02/2023	08/04/2023	
Lead	ND		9.16	"	"	"	"	"	
Nickel	ND		9.16	"	"	"	"	"	
Selenium	ND		0.0916	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	ND		91.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L696952	07/31/2023	08/04/2023	
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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 - HSR - Cooper 12-10A

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 B3H0219 - EPA 3050B

Blank (B3H0219-BLK1)

Prepared: 08/02/2023 Analyzed: 08/04/2023

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 (B3H0219-BS1)

Prepared: 08/02/2023 Analyzed: 08/04/2023

Arsenic	0.0531	0.000100	mg/kg	0.0500	106	80-120
Barium	5.12	0.0100	"	5.00	102	80-120
Cadmium	0.0500	0.000100	"	0.0500	100	80-120
Copper	0.527	0.0100	"	0.500	105	80-120
Lead	0.0507	0.0100	"	0.0500	101	80-120
Nickel	0.0524	0.0100	"	0.0500	105	80-120
Selenium	0.0499	0.000100	"	0.0500	99.8	80-120
Silver	0.0516	0.000100	"	0.0500	103	80-120
Zinc	0.540	0.100	"	0.500	108	80-120

Matrix Spike (B3H0219-MS1)

Source: Y307376-03

Prepared: 08/02/2023 Analyzed: 08/04/2023

Arsenic	9.19	0.0931	mg/kg	4.65	3.32	126	75-125	QM-07
Barium	631	9.31	"	465	181	96.5	75-125	
Cadmium	5.75	0.0931	"	4.65	0.474	113	75-125	
Copper	64.8	9.31	"	46.5	14.0	109	75-125	
Lead	15.1	9.31	"	4.65	8.05	150	75-125	QM-07

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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 B3H0219 - EPA 3050B										
Matrix Spike (B3H0219-MS1)			Source: Y307376-03		Prepared: 08/02/2023 Analyzed: 08/04/2023					
Nickel	16.0	9.31	mg/kg	4.65	8.59	159	75-125			QM-07
Selenium	5.15	0.0931	"	4.65	0.159	107	75-125			
Silver	5.11	0.0931	"	4.65	0.0583	109	75-125			
Zinc	109	93.1	"	46.5	40.6	146	75-125			QM-07
Matrix Spike Dup (B3H0219-MSD1)			Source: Y307376-03		Prepared: 08/02/2023 Analyzed: 08/04/2023					
Arsenic	8.01	0.0945	mg/kg	4.73	3.32	99.2	75-125	13.7	20	
Barium	632	9.45	"	473	181	95.3	75-125	0.177	20	
Cadmium	5.09	0.0945	"	4.73	0.474	97.8	75-125	12.1	20	
Copper	60.5	9.45	"	47.3	14.0	98.5	75-125	6.85	20	
Lead	13.0	9.45	"	4.73	8.05	105	75-125	14.5	20	
Nickel	14.2	9.45	"	4.73	8.59	119	75-125	11.7	20	
Selenium	4.70	0.0945	"	4.73	0.159	96.1	75-125	9.20	20	
Silver	4.87	0.0945	"	4.73	0.0583	102	75-125	4.76	20	
Zinc	91.8	94.5	"	47.3	40.6	108	75-125	16.8	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 - HSR - Cooper 12-10A

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 B3H0106 - DTPA Sorbitol Preparation

Blank (B3H0106-BLK1)

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

Boron ND 0.100 mg/L

Duplicate (B3H0106-DUP1)

Source: Y307693-04

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

Boron 0.111 0.0981 mg/L 0.103 7.87 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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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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 B3H0109 - Saturated Paste Metals										
Blank (B3H0109-BLK1)					Prepared: 08/01/2023 Analyzed: 08/02/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B3H0109-DUP1)					Source: Y307693-04		Prepared: 08/01/2023 Analyzed: 08/02/2023			
Calcium PPM	23.8	10.0	mg/L		24.5			2.57	50	
SAR	0.00		SAR		8.93			200	200	
Magnesium PPM	4.43	10.0	mg/L		4.50			1.57	50	
Sodium PPM	55.9	10.0	"		57.9			3.48	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 - HSR - Cooper 12-10A

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

Batch B3H0113 - Saturated Paste pH/EC

Blank (B3H0113-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0113-DUP1)

Source: Y307693-04

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

pH	8.28		pH Units	8.29	0.121	25
Specific Conductance (EC)	0.469	0.00500	mmhos/cm	0.486	3.54	25

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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 L696952 -										
DUP (L 89678-DUP)		Source: Y307693-06			Prepared: Analyzed: 08/04/2023					
Chromium, Hexavalent	ND	0.514	mg/Kg		<0.514	-		0	20	
MS (L 89678-MS)		Source: Y307693-06			Prepared: Analyzed: 08/04/2023					
Chromium, Hexavalent	34.6	2.58	mg/Kg	41.2	<1.26	84	75-125			
LRB (LRB)					Prepared: Analyzed: 08/04/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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 L697580 -										
DUP (L 90832-DUP)		Source: 90832			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 90832-MS)		Source: 90832			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	34.7	2.5	mg/Kg	39.6	<1.22	88	75-125			
LCS (LCS)					Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	6.76	0.5	mg/Kg	8		85	75-125			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - HSR - Cooper 12-10A

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 L696951 -										
DUP (L 89668-DUP)		Source: 89668			Prepared: Analyzed: 08/04/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 89668-MS)		Source: 89668			Prepared: Analyzed: 08/04/2023					
Chromium, Hexavalent	31.2	2.5	mg/Kg	38.6	<1.22	81	75-125			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - HSR - Cooper 12-10A

Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager