



January 25, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Binder 10-28

Project Number - -

Attached are your analytical results for KMG - Binder 10-28 received by Origins Laboratory, Inc. January 19, 2024. This project is associated with Origins project number Y401464-01.

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: -

Project: KMG - Binder 10-28

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y401464-01	Soil	January 19, 2024 12:50	01/19/2024 14:43
FL-B01@6'	Y401464-02	Soil	January 19, 2024 12:55	01/19/2024 14:43

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401464 Client: Eagle
Client Project ID: Binder 10-28

Checklist Completed by: TJA Shipped Via: TW
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 1/19/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 112 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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) TJA Date/Time Reviewed 1/19/24

Origins Laboratory, Inc.

J. Bynon

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

Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

WH-B01@8'

1/19/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401464-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.278	0.0992	mg/L	1	B4A2208	ACC	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1933	ZZZ	01/19/2024	01/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1935	HK	01/19/2024	01/19/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	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	83.4 %	70-130			"	"	"
Surrogate: Toluene-d8	89.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	87.0 %	70-130			"	"	"

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Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

WH-B01@8'

1/19/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401464-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.41	0.499	meq/L	10	[CALC]	ACC	01/20/2024	01/22/2024
Magnesium	0.906	0.823	"	"	"	ACC	"	"
Sodium	0.953	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B4A2005	EAL	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	0.741	0.0100	SAR	1	B4A2001	ACC	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.464	0.00500	mmhos/cm	1	B4A2005	EAL	01/20/2024	01/22/2024
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Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

FL-B01@6'

1/19/2024 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401464-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.219	0.0988	mg/L	1	B4A2208	ACC	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1933	ZZZ	01/19/2024	01/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1935	HK	01/19/2024	01/19/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	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	76.2 %	70-130			"	"	"
Surrogate: Toluene-d8	90.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	86.7 %	70-130			"	"	"

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FL-B01@6'

1/19/2024 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401464-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.74	0.499	meq/L	10	[CALC]	ACC	01/20/2024	01/22/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.42	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.31		pH Units	1	B4A2005	EAL	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.29	0.0100	SAR	1	B4A2001	ACC	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.305	0.00500	mmhos/cm	1	B4A2005	EAL	01/20/2024	01/22/2024
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Project Number: -
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1933 - EPA 3550B										
Blank (B4A1933-BLK1)					Prepared: 01/19/2024 Analyzed: 01/19/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1933 - EPA 3550B										
LCS (B4A1933-BS1)					Prepared: 01/19/2024 Analyzed: 01/19/2024					
Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000		90.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1933 - EPA 3550B

Matrix Spike (B4A1933-MS1)		Source: Y401463-01			Prepared: 01/19/2024 Analyzed: 01/19/2024					
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	938	200	"	1000	ND	93.8	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1933 - EPA 3550B

Matrix Spike Dup (B4A1933-MSD1)		Source: Y401463-01			Prepared: 01/19/2024 Analyzed: 01/19/2024					
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130	0.0121	35	
Residual Range Organics (C28-C40)	939	200	"	1000	ND	93.9	70-130	0.105	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1935 - EPA 5030 (soil)										
Blank (B4A1935-BLK1)					Prepared: 01/19/2024 Analyzed: 01/19/2024					
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	0.10		"	0.125		79.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1935 - EPA 5030 (soil)										
LCS (B4A1935-BS1)					Prepared: 01/19/2024 Analyzed: 01/19/2024					
1,2,4-Trimethylbenzene	0.0924	0.00200	mg/kg	0.100		92.4	70-130			
1,3,5-Trimethylbenzene	0.0915	0.00200	"	0.100		91.5	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0961	0.00200	"	0.100		96.1	70-130			
o-Xylene	0.0894	0.00200	"	0.100		89.4	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125		79.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.0	70-130			

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Project: KMG - Binder 10-28

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 B4A1935 - EPA 5030 (soil)										
Matrix Spike (B4A1935-MS1)		Source: Y401463-01			Prepared: 01/19/2024 Analyzed: 01/19/2024					
1,2,4-Trimethylbenzene	0.0813	0.00200	mg/kg	0.100	ND	81.3	70-130			
1,3,5-Trimethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Benzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.0908	0.00380	"	0.100	0.00160	89.2	70-130			
Toluene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
o-Xylene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1935 - EPA 5030 (soil)										
Matrix Spike Dup (B4A1935-MSD1)		Source: Y401463-01			Prepared: 01/19/2024 Analyzed: 01/19/2024					
1,2,4-Trimethylbenzene	0.0726	0.00200	mg/kg	0.100	ND	72.6	70-130	11.4	20	
1,3,5-Trimethylbenzene	0.0724	0.00200	"	0.100	ND	72.4	70-130	10.1	20	
Benzene	0.0859	0.00200	"	0.100	ND	85.9	70-130	6.88	20	
Ethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130	9.21	20	
Naphthalene	0.0792	0.00380	"	0.100	0.00160	77.6	70-130	13.7	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	8.95	20	
o-Xylene	0.0754	0.00200	"	0.100	ND	75.4	70-130	8.87	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.1	70-130	10.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	70-130			

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Wheat Ridge CO 80033

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Project Number: -
Project: KMG - Binder 10-28

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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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 B4A2001 - Saturated Paste Metals

Blank (B4A2001-BLK1)

Prepared: 01/20/2024 Analyzed: 01/22/2024

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

Duplicate (B4A2001-DUP1)

Source: Y401464-01

Prepared: 01/20/2024 Analyzed: 01/22/2024

Calcium PPM	47.1	10.0	mg/L	48.2	2.37	50
SAR	ND	0.0100	SAR	0.741		200
Magnesium PPM	10.3	10.0	mg/L	11.0	6.28	50
Sodium PPM	22.5	10.0	"	21.9	2.48	50

Batch B4A2208 - DTPA Sorbitol Preparation

Blank (B4A2208-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A2208-DUP1)

Source: Y401458-05

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.0535	0.100	mg/L	0.0553	3.29	50
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Project: KMG - Binder 10-28

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2005 - Saturated Paste pH/EC										
Blank (B4A2005-BLK1)					Prepared: 01/20/2024 Analyzed: 01/22/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2005-DUP1)					Source: Y401464-01 Prepared: 01/20/2024 Analyzed: 01/22/2024					
Specific Conductance (EC)	0.381	0.00500	mmhos/cm		0.464			19.5	25	
pH	8.01		pH Units		8.14			1.61	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: -

Project: KMG - Binder 10-28

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.



January 25, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Binder 10-28

Project Number - -

Attached are your analytical results for KMG - Binder 10-28 received by Origins Laboratory, Inc. January 22, 2024. This project is associated with Origins project number Y401493-01.

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: -

Project: KMG - Binder 10-28

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B02@5'	Y401493-01	Soil	January 22, 2024 9:15	01/22/2024 12:44
WH-BG01@3'	Y401493-02	Soil	January 22, 2024 9:20	01/22/2024 12:44
WH-BG01@6'	Y401493-03	Soil	January 22, 2024 9:22	01/22/2024 12:44
WH-BG02@3'	Y401493-04	Soil	January 22, 2024 9:24	01/22/2024 12:44
WH-BG02@6'	Y401493-05	Soil	January 22, 2024 9:26	01/22/2024 12:44
WH-BG03@3'	Y401493-06	Soil	January 22, 2024 9:28	01/22/2024 12:44
WH-BG03@6'	Y401493-07	Soil	January 22, 2024 9:30	01/22/2024 12:44
WH-BG04@3'	Y401493-08	Soil	January 22, 2024 9:32	01/22/2024 12:44
WH-BG04@6'	Y401493-09	Soil	January 22, 2024 9:34	01/22/2024 12:44

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: -
Project: KMG - Binder 10-28

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

ORIGINS
LABORATORY, INC

Initial: **4401493**

www.originslaboratory.com

page 1 of 1

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

Project Manager: D. Coloccia
Project Name: Binder 10-28
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 Summa Canister #	Other	BTEX	TPH		ECIPH
FL-BG02ES1	11/22/24	0915	3	X					X		X	X	X	X	
WH-BG01E31		0920	2												
WH-BG01E61		0922													
WH-BG02E31		0924													
WH-BG02E61		0926													
WH-BG03E31		0928													
WH-BG03E61		0930													
WH-BG04E31		0932													
WH-BG04E61		0934													

Relinquished By: Chris B. S. Date: 11/22/24 Time: 1244
Received By: [Signature] Date: 11/22/24 Time: 1244

Temp Received: [Signature] Date Results Needed: [Signature]

Turnaround Time:
☐ 48 Hr
☒ Same Day
☐ 24 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: -
Project: KMG - Binder 10-28

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401493 Client: Eagle
Client Project ID: Binder 10-28

Checklist Completed by: EHS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 1/22/24 Airbill #: N/A

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

Cooler Number/Temperature: 1/8 °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"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with 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.

[Signature] 1/22/24
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: -
Project: KMG - Binder 10-28

FL-B02@5'
1/22/2024 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2201	ZZZ	01/22/2024	01/22/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	96.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2219	JSM	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.2 %	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: -
Project: KMG - Binder 10-28

FL-B02@5'

1/22/2024 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.03		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	0.323	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.195	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG01@3'
1/22/2024 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.184	0.0984	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	8.28	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	5.42	0.823	"	"	"	ACC	"	"
Sodium	5.16	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.18		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	1.97	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.46	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG01@6'
1/22/2024 9:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.215	0.101	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	9.14	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	7.95	0.823	"	"	"	ACC	"	"
Sodium	3.07	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.13		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	1.05	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.58	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG02@3'
1/22/2024 9:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.199	0.0983	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.59	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	2.05	0.823	"	"	"	ACC	"	"
Sodium	3.74	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.40		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	2.46	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.695	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG02@6'
1/22/2024 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.197	0.0989	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	10.6	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	9.82	0.823	"	"	"	ACC	"	"
Sodium	2.45	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.18		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	0.765	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.78	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG03@3'
1/22/2024 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182	0.101	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.56	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	1.44	0.823	"	"	"	ACC	"	"
Sodium	1.12	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.40		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	0.794	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.484	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG03@6'
1/22/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.102	0.0995	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	ND	8.23	"	"	"	ACC	"	"
Sodium	ND	4.35	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	2.40	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.04	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG04@3'
1/22/2024 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.274	0.101	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.05	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	1.22	0.823	"	"	"	ACC	"	"
Sodium	3.13	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.43		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	2.45	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.654	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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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: -
Project: KMG - Binder 10-28

WH-BG04@6'
1/22/2024 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401493-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.202	0.0989	mg/L	1	B4A2307	ACC	01/23/2024	01/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	7.40	0.499	meq/L	10	[CALC]	ACC	01/23/2024	01/24/2024
Magnesium	7.99	0.823	"	"	"	ACC	"	"
Sodium	7.87	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.24		pH Units	1	B4A2314	EAL	01/23/2024	01/24/2024
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SAR by 20B Saturated Paste

SAR	2.84	0.0100	SAR	1	B4A2311	ACC	01/23/2024	01/24/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.83	0.00500	mmhos/cm	1	B4A2314	EAL	01/23/2024	01/24/2024
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

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 B4A2201 - EPA 3550B										
Blank (B4A2201-BLK1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
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			

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Dan Coloccia
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Project: KMG - Binder 10-28

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 B4A2201 - EPA 3550B										
LCS (B4A2201-BS1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
Diesel (C10-C28)	924	50.0	mg/kg	1000		92.4	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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Project: KMG - Binder 10-28

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 B4A2201 - EPA 3550B

Matrix Spike (B4A2201-MS1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.8	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2201 - EPA 3550B

Matrix Spike Dup (B4A2201-MSD1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130	6.93	35	
Residual Range Organics (C28-C40)	980	200	"	1000	ND	98.0	70-130	6.33	35	
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2219 - EPA 5030 (soil)										
Blank (B4A2219-BLK1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
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	0.15		"	0.125	120		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	86.5		70-130			

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Dan Coloccia
Project Number: -
Project: KMG - Binder 10-28

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 B4A2219 - EPA 5030 (soil)										
LCS (B4A2219-BS1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100		94.0	70-130			
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100		94.6	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0993	0.00200	"	0.100		99.3	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

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Dan Coloccia
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Project: KMG - Binder 10-28

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 B4A2219 - EPA 5030 (soil)										
Matrix Spike (B4A2219-MS1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	0.0857	0.00200	mg/kg	0.100	ND	85.7	70-130			
1,3,5-Trimethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
Benzene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130			
Toluene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
o-Xylene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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Project: KMG - Binder 10-28

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 B4A2219 - EPA 5030 (soil)										
Matrix Spike Dup (B4A2219-MSD1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	25.6	20	QR-02
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	27.3	20	QR-02
Benzene	0.120	0.00200	"	0.100	ND	120	70-130	26.4	20	QR-02
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	24.2	20	QR-02
Naphthalene	0.141	0.00380	"	0.100	ND	141	70-130	25.7	20	QR-02
Toluene	0.116	0.00200	"	0.100	ND	116	70-130	28.5	20	QR-02
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130	24.1	20	QR-02
m,p-Xylene	0.224	0.00400	"	0.200	ND	112	70-130	25.2	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2307 - DTPA Sorbitol Preparation

Blank (B4A2307-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron ND 0.100 mg/L

Duplicate (B4A2307-DUP1)

Source: Y401306-01

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron 3.21 0.0998 mg/L 3.18 1.00 50

Batch B4A2311 - Saturated Paste Metals

Blank (B4A2311-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

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 (B4A2311-DUP1)

Source: Y401493-01

Prepared: 01/23/2024 Analyzed: 01/24/2024

Calcium PPM 12.0 10.0 mg/L 20.8 53.9 50 QR-DUP

SAR ND 0.0100 SAR 0.323 200

Magnesium PPM 2.79 10.0 mg/L 4.88 54.5 50 QR-DUP

Sodium PPM 5.44 10.0 " 6.30 14.7 50

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Project: KMG - Binder 10-28

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2314 - Saturated Paste pH/EC										
Blank (B4A2314-BLK1)					Prepared: 01/23/2024 Analyzed: 01/24/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2314-DUP1)					Source: Y401493-01 Prepared: 01/23/2024 Analyzed: 01/24/2024					
pH	7.69		pH Units		8.03			4.33	25	
Specific Conductance (EC)	0.0891	0.00500	mmhos/cm		0.195			74.6	25	QR-DUP

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Project: KMG - Binder 10-28

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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