



June 19, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - REI H 9-32D

Project Number - [none]

Attached are your analytical results for KMG - REI H 9-32D received by Origins Laboratory, Inc. June 07, 2023. This project is associated with Origins project number Y306178-01.

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.

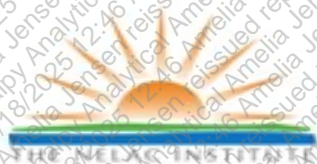
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - REI H 9-32D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B06@4'	Y306178-01	Soil	June 7, 2023 14:17	06/07/2023 17:30
FL-B07@4'	Y306178-02	Soil	June 7, 2023 15:19	06/07/2023 17:30
FL-B08@4'	Y306178-03	Soil	June 7, 2023 15:53	06/07/2023 17:30

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

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

Sample Receipt Checklist

Origins Work Order: 4306178 Client: Eagle Environmental
Client Project ID: REI H 9-32D

Checklist Completed by: EHS/TJM Shipped Via: Hand Delivered
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/7/23 Airbill #: N/A

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1, 4.5 °C °C °C (Describe)
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 ^{1,2} ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ^{1,2} ?	/			
Was adequate sample volume provided ^{1,2} ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ^{1,2} ?			/	
Is a chain-of-custody (COC) present and filled out completely ^{1,2} ?	/			
Does the COC agree with the number and type of sample bottles received ^{1,2} ?	/			
Do the sample IDs on the bottle labels match the COC ^{1,2} ?	/			
Is the COC properly relinquished by the client with date and time recorded ^{1,2} ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/			
Are samples preserved that require preservation and was it checked ^{1,2} (note ID of confirmation instrument used in comments)? (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH ≤ 2 for samples preserved with HNO3, HCL, H2SO4) (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

^{1,2}If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 6/7/23

Origins Laboratory, Inc.

[Signature]

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 - REI H 9-32D

FL-B06@4'

6/7/2023 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121		0.100	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3F0728	06/07/2023	06/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.8%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.0120		0.00380	"	"	"	"	"	
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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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B06@4'

6/7/2023 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.5 %		70-130			B3F07 31	06/07/2023	06/07/2023	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.79		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00191	0.00109	0.00201	mg/Kg	1	L687261	06/13/2023	06/13/2023	J
2-Methylnaphthalene	0.00317	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0157	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0357	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0504	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0369	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.041	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0217	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0605	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00736	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.157	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0218	0.000286	0.00067	"	"	"	"	"	

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FL-B06@4'

6/7/2023 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y306178-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0197	0.000627	0.00067	mg/Kg	1	L687261	06/13/2023	06/13/2023	
Pyrene	0.116	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	0.115			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.238		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.11		0.0865	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Barium	77.4		8.65	"	"	"	"	"	
Cadmium	0.102		0.0865	"	"	"	"	"	

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 Project Number: [none]
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FL-B06@4'

6/7/2023 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.65	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Lead	ND		8.65	"	"	"	"	"	"
Nickel	ND		8.65	"	"	"	"	"	"
Selenium	0.0986		0.0865	"	"	"	"	"	"
Silver	ND		0.0865	"	"	"	"	"	"
Zinc	ND		86.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L687707	06/07/2023	06/14/2023	
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 Project: KMG - REI H 9-32D

FL-B07@4'

6/7/2023 3:19:00PM

Origins Laboratory, Inc.
Y306178-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.135		0.0980	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	193		25.0	mg/kg	1	B3F0728	06/07/2023	06/08/2023	
Residual Range Organics (C28-C40)	109		100	"	"	"	"	"	

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.0155		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0%		70-130	"	"	"	"	"	
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 Project: KMG - REI H 9-32D

FL-B07@4'

6/7/2023 3:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.1 %		70-130			B3F07 31	06/07/2023	06/07/2023	
Surrogate: 4-Bromofluorobenzene	86.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.84		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	0.889		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0129	0.00109	0.00201	mg/Kg	1	L687261	06/13/2023	06/13/2023	
2-Methylnaphthalene	0.0224	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.123	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.247	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.246	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.189	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.209	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.104	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.274	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.035	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.933	0.00197	0.00335	"	5	"	"	"	
Fluorene	0.167	0.000286	0.00067	"	1	"	"	"	
Indeno(1,2,3-cd)pyrene	0.101	0.000627	0.00067	"	"	"	"	"	

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FL-B07@4'

6/7/2023 3:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y306178-02 (Soil)

PAH by 8270D SIM

Pyrene	0.623	0.000643	0.00067	mg/Kg	1	L687261	06/13/2023	06/13/2023	
Surrogate: 2-Fluorobiphenyl	64 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B3F0825	06/08/2023	06/09/2023	
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SAR by 20B Saturated Paste

SAR	0.165			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.416		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.02		0.0903	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Barium	124		9.03	"	"	"	"	"	
Cadmium	0.120		0.0903	"	"	"	"	"	
Copper	ND		9.03	"	"	"	"	"	

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FL-B07@4'

6/7/2023 3:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-02 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.03	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Nickel	9.34		9.03	"	"	"	"	"	
Selenium	ND		0.0903	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		90.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L687707	06/07/2023	06/14/2023	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B08@4'

6/7/2023 3:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0988	mg/L	1	B3F0813	06/08/2023	06/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	80.5		25.0	mg/kg	1	B3F0728	06/07/2023	06/08/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.5% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F0731	06/07/2023	06/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0718		0.00200	"	"	"	"	"	
Naphthalene	0.0850		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.139		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.1% 70-130 " " " "

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 Project: KMG - REI H 9-32D

FL-B08@4'

6/7/2023 3:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306178-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %		70-130			B3F07 31	06/07/2023	06/07/2023	
Surrogate: 4-Bromofluorobenzene	94.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	06/08/2023	06/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00115	0.00109	0.00201	mg/Kg	1	L687261	06/13/2023	06/13/2023	J
2-Methylnaphthalene	0.00282	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00088	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00204	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00283	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00249	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00259	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00123	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00329	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0091	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00105	0.000286	0.00067	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B08@4'

6/7/2023 3:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y306178-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00125	0.000627	0.00067	mg/Kg	1	L687261	06/13/2023	06/13/2023	
Pyrene	0.00708	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

pH in Soil by 9045D

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

SAR	0.0409			SAR	1	B3F0821	06/08/2023	06/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.164		0.00500	mmhos/cm	1	B3F0825	06/08/2023	06/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.54		0.0890	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Barium	77.9		8.90	"	"	"	"	"	
Cadmium	0.206		0.0890	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B08@4'

6/7/2023 3:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306178-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.90	mg/kg	10	B3F0906	06/09/2023	06/09/2023	
Lead	ND		8.90	"	"	"	"	"	"
Nickel	ND		8.90	"	"	"	"	"	"
Selenium	ND		0.0890	"	"	"	"	"	"
Silver	ND		0.0890	"	"	"	"	"	"
Zinc	ND		89.0	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L687707	06/07/2023	06/14/2023	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0728 - EPA 3550B

Blank (B3F0728-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.9	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0728 - EPA 3550B

LCS (B3F0728-BS1)

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

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

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0728 - EPA 3550B

Matrix Spike (B3F0728-MS1)

Source: Y306151-02

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

Diesel (C10-C28)	1020	50.0	mg/kg	1000	50.2	96.5	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.2	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0728 - EPA 3550B

Matrix Spike Dup (B3F0728-MSD1)

Source: Y306151-02

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

Diesel (C10-C28)	1010	50.0	mg/kg	1000	50.2	96.1	70-130	0.344	35	
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130	3.28	35	
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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 B3F0731 - EPA 5030 (soil)

Blank (B3F0731-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.2	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 - REI H 9-32D

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 B3F0731 - EPA 5030 (soil)

LCS (B3F0731-BS1)

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

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	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 - REI H 9-32D

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 B3F0731 - EPA 5030 (soil)

Matrix Spike (B3F0731-MS1)

Source: Y306178-01

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

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Ethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Naphthalene	0.111	0.00380	"	0.100	0.0120	98.7	70-130			
Toluene	0.0902	0.00200	"	0.100	ND	90.2	70-130			
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

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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 - REI H 9-32D

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 B3F0731 - EPA 5030 (soil)

Matrix Spike Dup (B3F0731-MSD1)

Source: Y306178-01

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

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	4.58	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	3.90	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	1.30	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	0.372	20	
Naphthalene	0.123	0.00380	"	0.100	0.0120	111	70-130	10.3	20	
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130	2.54	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	0.772	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	0.0100	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	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 - REI H 9-32D

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 B3F0906 - EPA 3050B

Blank (B3F0906-BLK1)

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

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

LCS (B3F0906-BS1)

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

Arsenic	0.0537	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.24	0.0100	"	5.00		105	80-120			
Cadmium	0.0527	0.000100	"	0.0500		105	80-120			
Copper	0.594	0.0100	"	0.500		119	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0564	0.0100	"	0.0500		113	80-120			
Selenium	0.0473	0.000100	"	0.0500		94.6	80-120			
Silver	0.0467	0.000100	"	0.0500		93.4	80-120			
Zinc	0.551	0.100	"	0.500		110	80-120			

Matrix Spike (B3F0906-MS1)

Source: Y306178-01

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

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 - REI H 9-32D

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 B3F0906 - EPA 3050B

Matrix Spike (B3F0906-MS1)

Source: Y306178-01

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

Arsenic	7.33	0.0895	mg/kg	4.48	2.11	117	75-125			
Barium	554	8.95	"	448	77.4	107	75-125			
Cadmium	4.78	0.0895	"	4.48	0.102	104	75-125			
Copper	54.9	8.95	"	44.8	5.35	111	75-125			
Lead	11.8	8.95	"	4.48	6.85	110	75-125			
Nickel	11.5	8.95	"	4.48	6.42	113	75-125			
Selenium	4.11	0.0895	"	4.48	0.0986	89.7	75-125			
Silver	4.11	0.0895	"	4.48	0.0259	91.2	75-125			
Zinc	77.8	89.5	"	44.8	26.7	114	75-125			

Matrix Spike Dup (B3F0906-MSD1)

Source: Y306178-01

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

Arsenic	7.18	0.0919	mg/kg	4.59	2.11	110	75-125	2.08	20	
Barium	555	9.19	"	459	77.4	104	75-125	0.121	20	
Cadmium	4.80	0.0919	"	4.59	0.102	102	75-125	0.568	20	
Copper	55.4	9.19	"	45.9	5.35	109	75-125	0.962	20	
Lead	11.3	9.19	"	4.59	6.85	96.5	75-125	4.31	20	
Nickel	11.0	9.19	"	4.59	6.42	99.8	75-125	4.03	20	
Selenium	4.46	0.0919	"	4.59	0.0986	94.9	75-125	8.06	20	
Silver	4.13	0.0919	"	4.59	0.0259	89.3	75-125	0.501	20	
Zinc	75.0	91.9	"	45.9	26.7	105	75-125	3.65	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 - REI H 9-32D

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 B3F0813 - DTPA Sorbitol Preparation

Blank (B3F0813-BLK1)

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

Boron ND 0.100 mg/L

Duplicate (B3F0813-DUP1)

Source: Y306177-01

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

Boron 0.118 0.102 mg/L 0.114 2.84 50

Batch B3F0821 - Saturated Paste Metals

Blank (B3F0821-BLK1)

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

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3F0821-DUP1)

Source: Y306176-01

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

Calcium PPM 23.8 10.0 mg/L 25.8 8.31 50

SAR 0.00 SAR 0.304 200 200

Magnesium PPM 3.02 10.0 mg/L 3.15 4.21 50

Sodium PPM 4.32 10.0 " 6.15 35.0 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 - REI H 9-32D

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 B3F0825 - Saturated Paste pH/EC

Blank (B3F0825-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3F0825-DUP1)

Source: Y306176-01

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

pH 8.32 pH Units 8.32 0.00 25

Specific Conductance (EC) 0.189 0.00500 mmhos/cm 0.200 5.56 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 - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L687261 - 3550B

MSD (L 85721-MSD-L687261)

Source: 85721

Prepared: 06/13/2023 Analyzed: 06/13/2023

Fluorene	0.352	0.00335	mg/Kg	0.166	0.0761	166	30-130	25.6	30	*
Pyrene	0.958	0.00335	"	0.166	0.271	414	30-130	17.3	30	*
1-Methylnaphthalene	0.116	0.0101	"	0.166	0.00624	66.1	30-130	2.6	30	
2-Methylnaphthalene	0.134	0.0101	"	0.166	0.0106	74.3	30-130	7.7	30	
Indeno(1,2,3-cd)pyrene	0.259	0.00335	"	0.166	0.06	120	30-130	14.4	30	
Acenaphthene	0.309	0.00335	"	0.166	0.0572	152	30-130	27.6	30	*
Anthracene	0.492	0.00335	"	0.166	0.112	229	30-130	24.6	30	*
Benzo(a)anthracene	0.451	0.00335	"	0.166	0.111	205	30-130	28	30	*
Benzo(b)fluoranthene	0.487	0.00335	"	0.166	0.104	231	30-130	15.4	30	*
Benzo(k)fluoranthene	0.28	0.00335	"	0.166	0.0482	140	30-130	17.8	30	*
Chrysene	0.458	0.00335	"	0.166	0.128	199	30-130	17.8	30	*
Dibenz(a,h)anthracene	0.163	0.00335	"	0.166	0.0195	86.4	30-130	3	30	
Fluoranthene	1.17	0.00335	"	0.166	0.365	485	30-130	17.6	30	*
Benzo(a)pyrene	0.365	0.00335	"	0.166	0.0848	169	30-130	18.8	30	*
Surrogate: 4-Terphenyl-d14	64.4		"	0.332	178	64.4	33-122			
Surrogate: Nitrobenzene-d5	51.5		"	0.332	146	51.5	29-110			
Surrogate: 2-Fluorobiphenyl	53.3		"	0.332	172	53.3	33-115			

MS (L 85721-MS-L687261)

Source: 85721

Prepared: 06/13/2023 Analyzed: 06/13/2023

Benzo(k)fluoranthene	0.234	0.00335	mg/Kg	0.164	0.0482	113	30-130			
Pyrene	0.805	0.00335	"	0.164	0.271	326	30-130			*
Chrysene	0.383	0.00335	"	0.164	0.128	155	30-130			*
Dibenz(a,h)anthracene	0.168	0.00335	"	0.164	0.0195	90.5	30-130			*
Fluoranthene	0.98	0.00335	"	0.164	0.365	375	30-130			*
Indeno(1,2,3-cd)pyrene	0.224	0.00335	"	0.164	0.06	100	30-130			*
Benzo(a)anthracene	0.34	0.00335	"	0.164	0.111	140	30-130			*
Fluorene	0.272	0.00335	"	0.164	0.0761	119	30-130			*

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L687261 - 3550B

MS (L 85721-MS-L687261)

Source: 85721

Prepared: 06/13/2023 Analyzed: 06/13/2023

Anthracene	0.384	0.00335	mg/Kg	0.164	0.112	166	30-130			*
Acenaphthene	0.234	0.00335	"	0.164	0.0572	108	30-130			
2-Methylnaphthalene	0.124	0.0101	"	0.164	0.0106	69.1	30-130			
1-Methylnaphthalene	0.113	0.0101	"	0.164	0.00624	65	30-130			
Benzo(b)fluoranthene	0.417	0.00335	"	0.164	0.104	191	30-130			*
Benzo(a)pyrene	0.302	0.00335	"	0.164	0.0848	132	30-130			*
Surrogate: Nitrobenzene-d5	60.1		"	0.329	146	60.1	29-110			
Surrogate: 4-Terphenyl-d14	84.4		"	0.329	178	84.4	33-122			
Surrogate: 2-Fluorobiphenyl	62.3		"	0.329	172	62.3	33-115			

LCS (LCS-L687261)

Prepared: 06/13/2023 Analyzed: 06/13/2023

Pyrene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Benzo(b)fluoranthene	0.0921	0.00067	"	0.167		55.1	30-130			
Benzo(k)fluoranthene	0.0942	0.00067	"	0.167		56.4	30-130			
Chrysene	0.116	0.00067	"	0.167		69.4	30-130			
Fluoranthene	0.109	0.00067	"	0.167		65.2	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Dibenz(a,h)anthracene	0.136	0.00067	"	0.167		81.4	30-130			
Indeno(1,2,3-cd)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			
1-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Fluorene	0.119	0.00067	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			
Surrogate: 4-Terphenyl-d14	69.9		"	0.333		69.9	33-122			

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Eagle Environmental Consulting, LLC
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Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L687261 - 3550B

LCS (LCS-L687261)

Prepared: 06/13/2023 Analyzed: 06/13/2023

Surrogate: 2-Fluorobiphenyl 68.1 mg/Kg 0.333 68.1 33-115

LRB (LRB-L687261)

Prepared: 06/13/2023 Analyzed: 06/13/2023

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			

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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 - REI H 9-32D

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
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Batch L687707 -

DUP (L 85762-DUP)

Source: 85762

Prepared: Analyzed: 06/14/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		85762	-		0	20	
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MS (L 85762-MS)

Source: 85762

Prepared: Analyzed: 06/14/2023

Chromium, Hexavalent	30.2	2.5	mg/Kg	38.5	85762	78	75-125			
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LCS (LCS)

Prepared: Analyzed: 06/14/2023

Chromium, Hexavalent	6.78	0.5	mg/Kg	8		85	75-125			
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LRB (LRB)

Prepared: Analyzed: 06/14/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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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 - REI H 9-32D

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.

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