



Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Fehrn 7 8 24 25 26 41-32 O SA Project Number - [none]

Attached are your analytical results for KMG - Fehrn 7 8 24 25 26 41-32 O SA received by Origins Laboratory September 11, 2024. This project is associated with Origins project number E409299-01.

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
303.433.1322
projectmanager@originslab.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 - Fehrn 7 8 24 25 26 41-32 O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-BG01@3"	E409299-01	Soil	September 11, 2024 11:30	09/11/2024 16:24
PW-BG01@3'	E409299-02	Soil	September 11, 2024 11:32	09/11/2024 16:24
PW-BG01@6'	E409299-03	Soil	September 11, 2024 11:34	09/11/2024 16:24
PW-BG02@3"	E409299-04	Soil	September 11, 2024 11:40	09/11/2024 16:24
PW-BG02@3'	E409299-05	Soil	September 11, 2024 11:42	09/11/2024 16:24
PW-BG02@6'	E409299-06	Soil	September 11, 2024 11:44	09/11/2024 16:24
PW-BG03@3"	E409299-07	Soil	September 11, 2024 11:50	09/11/2024 16:24
PW-BG03@3'	E409299-08	Soil	September 11, 2024 11:52	09/11/2024 16:24
PW-BG03@6'	E409299-09	Soil	September 11, 2024 11:54	09/11/2024 16:24
PW-BG04@3"	E409299-10	Soil	September 11, 2024 12:00	09/11/2024 16:24
PW-BG04@3'	E409299-11	Soil	September 11, 2024 12:02	09/11/2024 16:24
PW-BG04@6'	E409299-12	Soil	September 11, 2024 12:04	09/11/2024 16:24
AST-B01@3"	E409299-13	Soil	September 11, 2024 14:00	09/11/2024 16:24
AST-B03@3"	E409299-14	Soil	September 11, 2024 14:10	09/11/2024 16:24

Origins Laboratory



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

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B05@3"	E409299-15	Soil	September 11, 2024 14:20	09/11/2024 16:24
AST-B07@3"	E409299-16	Soil	September 11, 2024 14:30	09/11/2024 16:24
AST-B09@3"	E409299-17	Soil	September 11, 2024 14:40	09/11/2024 16:24
AST-B11@3"	E409299-18	Soil	September 11, 2024 14:50	09/11/2024 16:24

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 Project: KMG - Fehm 7 8 24 25 26 41-32 O SA

ORIGINS
 LABORATORY INC

ORIGINS WORK ORDER #

6408244

Page 1 of 2

Client: Eagle Environmental
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0429
 Email Address: dcoloccia@eagle-environmental.com

Project Manager: D. Coloccia
 Project Name: Fehm 7 8 24 25 26 41-32 Facility
 Project Number: -
 Collected By: GC/PO
 Invoice/Billing Info: OTI/Initial
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 L=Liquid
 W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis					Comments
						U	IT	AS	MS	TOX	
1	PW-BF01 @ 3"	9/11/24	1130	2	UNP	X	X	X	X	X	
2	PW-BF01 @ 3'		1132								
3	PW-BF01 @ 6'		1134								
4	PW-BF02 @ 3"		1140								
5	PW-BF02 @ 3'		1142								
6	PW-BF02 @ 6'		1144								
7	PW-BF03 @ 3"		1150								
8	PW-BF03 @ 3'		1152								
9	PW-BF03 @ 6'		1154								
10	PW-BF04 @ 3"		1200								

Relinquished By: [Signature] Date: 9/11/24 Time: 1624
 Received By: [Signature] Date: 9/11/24 Time: 1624
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Temp Received: 3.1 Received On Ice? Yes No

Origins Laboratory

Jefe Pellegrini

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 6409299

Client: Eagle

Client Project ID: Fehr

Checklist Completed by: JPD

Shipped Via: JD

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

Date/time completed: 9/11/24

Airbill #: N/A

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

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

Thermometer ID: 7005

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): JPD

Date/Time Reviewed: 9/11/24

Origins Laboratory

Jefe Pellegrini

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG01@3"

9/11/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.74	0.256	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	57.6	8.81	"	"	"	HJD	"	"	
Cadmium	0.240	0.0881	"	"	"	HJD	"	"	
Copper	ND	8.81	"	"	"	HJD	"	"	U
Lead	8.71	0.881	"	"	"	HJD	"	"	
Nickel	4.87	0.881	"	"	"	HJD	"	"	
Selenium	ND	0.229	"	"	"	HJD	"	"	U
Silver	ND	0.0881	"	"	"	HJD	"	"	U
Zinc	ND	32.6	"	"	"	HJD	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG01@3'

9/11/2024 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.18	0.260	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	64.9	8.95	"	"	"	HJD	"	"	
Cadmium	0.120	0.0895	"	"	"	HJD	"	"	
Copper	ND	8.95	"	"	"	HJD	"	"	U
Lead	6.05	0.895	"	"	"	HJD	"	"	
Nickel	6.62	0.895	"	"	"	HJD	"	"	
Selenium	ND	0.233	"	"	"	HJD	"	"	U
Silver	ND	0.0895	"	"	"	HJD	"	"	U
Zinc	ND	33.1	"	"	"	HJD	"	"	U

Origins Laboratory



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 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG01@6'

9/11/2024 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.00	0.251	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	45.5	8.65	"	"	"	HJD	"	"	
Cadmium	ND	0.0865	"	"	"	HJD	"	"	U
Copper	ND	8.65	"	"	"	HJD	"	"	U
Lead	4.44	0.865	"	"	"	HJD	"	"	
Nickel	3.29	0.865	"	"	"	HJD	"	"	
Selenium	ND	0.225	"	"	"	HJD	"	"	U
Silver	ND	0.0865	"	"	"	HJD	"	"	U
Zinc	ND	32.0	"	"	"	HJD	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG02@3"

9/11/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.98	0.267	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	89.6	9.20	"	"	"	HJD	"	"	
Cadmium	0.292	0.0920	"	"	"	HJD	"	"	
Copper	15.4	9.20	"	"	"	HJD	"	"	
Lead	18.0	0.920	"	"	"	HJD	"	"	
Nickel	6.96	0.920	"	"	"	HJD	"	"	
Selenium	0.337	0.239	"	"	"	HJD	"	"	
Silver	0.199	0.0920	"	"	"	HJD	"	"	
Zinc	54.0	34.0	"	"	"	HJD	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG02@3'

9/11/2024 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.59	0.285	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	44.1	9.82	"	"	"	HJD	"	"	
Cadmium	0.153	0.0982	"	"	"	HJD	"	"	
Copper	ND	9.82	"	"	"	HJD	"	"	U
Lead	8.51	0.982	"	"	"	HJD	"	"	
Nickel	4.00	0.982	"	"	"	HJD	"	"	
Selenium	ND	0.255	"	"	"	HJD	"	"	U
Silver	ND	0.0982	"	"	"	HJD	"	"	U
Zinc	ND	36.3	"	"	"	HJD	"	"	U

Origins Laboratory



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PW-BG02@6'

9/11/2024 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.59	0.254	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	73.6	8.76	"	"	"	HJD	"	"	
Cadmium	ND	0.0876	"	"	"	HJD	"	"	U
Copper	ND	8.76	"	"	"	HJD	"	"	U
Lead	4.67	0.876	"	"	"	HJD	"	"	
Nickel	4.02	0.876	"	"	"	HJD	"	"	
Selenium	ND	0.228	"	"	"	HJD	"	"	U
Silver	ND	0.0876	"	"	"	HJD	"	"	U
Zinc	ND	32.4	"	"	"	HJD	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG03@3"

9/11/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.19	0.280	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	77.4	9.67	"	"	"	HJD	"	"	
Cadmium	0.246	0.0967	"	"	"	HJD	"	"	
Copper	10.4	9.67	"	"	"	HJD	"	"	
Lead	10.6	0.967	"	"	"	HJD	"	"	
Nickel	6.16	0.967	"	"	"	HJD	"	"	
Selenium	ND	0.251	"	"	"	HJD	"	"	U
Silver	ND	0.0967	"	"	"	HJD	"	"	U
Zinc	40.7	35.8	"	"	"	HJD	"	"	

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 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG03@3'

9/11/2024 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.92	0.263	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	41.2	9.05	"	"	"	HJD	"	"	
Cadmium	ND	0.0905	"	"	"	HJD	"	"	U
Copper	ND	9.05	"	"	"	HJD	"	"	U
Lead	7.57	0.905	"	"	"	HJD	"	"	
Nickel	3.66	0.905	"	"	"	HJD	"	"	
Selenium	ND	0.235	"	"	"	HJD	"	"	U
Silver	ND	0.0905	"	"	"	HJD	"	"	U
Zinc	ND	33.5	"	"	"	HJD	"	"	U

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG03@6'

9/11/2024 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.61	0.265	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	90.7	9.14	"	"	"	HJD	"	"	
Cadmium	ND	0.0914	"	"	"	HJD	"	"	U
Copper	ND	9.14	"	"	"	HJD	"	"	U
Lead	4.55	0.914	"	"	"	HJD	"	"	
Nickel	4.84	0.914	"	"	"	HJD	"	"	
Selenium	ND	0.238	"	"	"	HJD	"	"	U
Silver	ND	0.0914	"	"	"	HJD	"	"	U
Zinc	ND	33.8	"	"	"	HJD	"	"	U

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG04@3"

9/11/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.45	0.275	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	149	9.48	"	"	"	HJD	"	"	
Cadmium	0.255	0.0948	"	"	"	HJD	"	"	
Copper	13.5	9.48	"	"	"	HJD	"	"	
Lead	15.0	0.948	"	"	"	HJD	"	"	
Nickel	7.13	0.948	"	"	"	HJD	"	"	
Selenium	0.259	0.246	"	"	"	HJD	"	"	
Silver	0.135	0.0948	"	"	"	HJD	"	"	
Zinc	51.6	35.1	"	"	"	HJD	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG04@3'

9/11/2024 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-11 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.19	0.249	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	77.2	8.59	"	"	"	HJD	"	"	
Cadmium	0.258	0.0859	"	"	"	HJD	"	"	
Copper	10.0	8.59	"	"	"	HJD	"	"	
Lead	15.1	0.859	"	"	"	HJD	"	"	
Nickel	6.09	0.859	"	"	"	HJD	"	"	
Selenium	0.234	0.223	"	"	"	HJD	"	"	
Silver	ND	0.0859	"	"	"	HJD	"	"	U
Zinc	42.7	31.8	"	"	"	HJD	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

PW-BG04@6'

9/11/2024 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-12 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.02	0.254	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Barium	66.6	8.77	"	"	"	HJD	"	"	
Cadmium	ND	0.0877	"	"	"	HJD	"	"	U
Copper	ND	8.77	"	"	"	HJD	"	"	U
Lead	4.54	0.877	"	"	"	HJD	"	"	
Nickel	4.48	0.877	"	"	"	HJD	"	"	
Selenium	ND	0.228	"	"	"	HJD	"	"	U
Silver	ND	0.0877	"	"	"	HJD	"	"	U
Zinc	ND	32.5	"	"	"	HJD	"	"	U

Origins Laboratory



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B01@3"

9/11/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-13 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 85.9 % 70-130 " " "
 Surrogate: Toluene-d8 95.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 83.7 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1142	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

Origins Laboratory



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B01@3"

9/11/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-13 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1142	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"
Surrogate: Anthracene-d10	90.3 %	60-130			"	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130			"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.4 %	60-130			"	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.86	0.280	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	26.5	9.67	"	"	"	HJD	"	"

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B01@3"

9/11/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-13 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND	0.0967	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	U
Copper	ND	9.67	"	"	"	HJD	"	"	U
Lead	2.43	0.967	"	"	"	HJD	"	"	
Nickel	6.22	0.967	"	"	"	HJD	"	"	
Selenium	ND	0.251	"	"	"	HJD	"	"	U
Silver	ND	0.0967	"	"	"	HJD	"	"	U
Zinc	ND	35.8	"	"	"	HJD	"	"	U

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B03@3"

9/11/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-14 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 84.4 % 70-130 " " "
 Surrogate: Toluene-d8 98.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 83.1 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1142	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B03@3"

9/11/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-14 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1142	N	Windows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	N	Windows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	N	Windows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Chrysene	ND	0.020	"	"	"	N	Windows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	N	Windows	"	"	U
Fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Fluorene	ND	0.020	"	"	"	N	Windows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	N	Windows	"	"	U
Naphthalene	ND	0.002	"	"	"	N	Windows	"	"	U
Pyrene	ND	0.020	"	"	"	N	Windows	"	"	U

Surrogate: Fluorene-d10	98.8 %	60-130			"	"	"
Surrogate: Anthracene-d10	86.8 %	60-130			"	"	"
Surrogate: Pyrene-d10	100 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	11.1	0.280	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	51.0	9.65	"	"	"	HJD	"	"
Cadmium	0.228	0.0965	"	"	"	HJD	"	"

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Dan Coloccia
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 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B03@3"

9/11/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-14 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Copper	9.93	9.65	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Lead	5.23	0.965	"	"	"	HJD	"	"	
Nickel	10.6	0.965	"	"	"	HJD	"	"	
Selenium	0.368	0.251	"	"	"	HJD	"	"	
Silver	ND	0.0965	"	"	"	HJD	"	"	U
Zinc	ND	35.7	"	"	"	HJD	"	"	U

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B05@3"

9/11/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-15 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 85.3 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 84.9 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1142	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B05@3"

9/11/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst Prepared	Analyzed	Notes
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E409299-15 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1142	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130			"	"	"
Surrogate: Anthracene-d10	89.4 %	60-130			"	"	"
Surrogate: Pyrene-d10	102 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.71	0.275	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	45.4	9.47	"	"	"	HJD	"	"

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B05@3"

9/11/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-15 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND	0.0947	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	U
Copper	ND	9.47	"	"	"	HJD	"	"	U
Lead	4.32	0.947	"	"	"	HJD	"	"	
Nickel	6.04	0.947	"	"	"	HJD	"	"	
Selenium	ND	0.246	"	"	"	HJD	"	"	U
Silver	ND	0.0947	"	"	"	HJD	"	"	U
Zinc	ND	35.0	"	"	"	HJD	"	"	U

Origins Laboratory



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Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B07@3"

9/11/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409299-16 (Soil)
Origins Laboratory**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 85.1 % 70-130 " " "
Surrogate: Toluene-d8 96.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 84.7 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1142	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B07@3"

9/11/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-16 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1142	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	
Surrogate: Anthracene-d10	91.6 %	60-130			"	"	"	
Surrogate: Pyrene-d10	98.4 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.9 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	2.51	0.258	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	40.7	8.91	"	"	"	HJD	"	"

Origins Laboratory



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B07@3"

9/11/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-16 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND	0.0891	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	U
Copper	ND	8.91	"	"	"	HJD	"	"	U
Lead	4.07	0.891	"	"	"	HJD	"	"	
Nickel	4.90	0.891	"	"	"	HJD	"	"	
Selenium	ND	0.232	"	"	"	HJD	"	"	U
Silver	ND	0.0891	"	"	"	HJD	"	"	U
Zinc	ND	33.0	"	"	"	HJD	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B09@3"

9/11/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-17 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 91.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 86.1 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 82.6 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1142	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

Origins Laboratory



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B09@3"

9/11/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-17 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1142	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"
Surrogate: Anthracene-d10	89.3 %	60-130			"	"	"	"
Surrogate: Pyrene-d10	97.3 %	60-130			"	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.52	0.278	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	36.1	9.59	"	"	"	HJD	"	"

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Dan Coloccia
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 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B09@3"

9/11/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-17 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND	0.0959	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	U
Copper	ND	9.59	"	"	"	HJD	"	"	U
Lead	4.02	0.959	"	"	"	HJD	"	"	
Nickel	4.74	0.959	"	"	"	HJD	"	"	
Selenium	ND	0.249	"	"	"	HJD	"	"	U
Silver	ND	0.0959	"	"	"	HJD	"	"	U
Zinc	ND	35.5	"	"	"	HJD	"	"	U

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 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B11@3"

9/11/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-18 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1127	ZZZ	09/11/2024	09/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1135	ZZZ	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	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 86.8 % 70-130 " " "
 Surrogate: Toluene-d8 97.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 84.8 % 70-130 " " "

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1151	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

AST-B11@3"

9/11/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-18 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B411151	N	Windows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	N	Windows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	N	Windows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Chrysene	ND	0.020	"	"	"	N	Windows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	N	Windows	"	"	U
Fluoranthene	ND	0.020	"	"	"	N	Windows	"	"	U
Fluorene	ND	0.020	"	"	"	N	Windows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	N	Windows	"	"	U
Naphthalene	ND	0.002	"	"	"	N	Windows	"	"	U
Pyrene	ND	0.020	"	"	"	N	Windows	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"
Surrogate: Anthracene-d10	87.4 %	60-130			"	"	"
Surrogate: Pyrene-d10	97.8 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.89	0.282	mg/kg	10	B411152	HJD	09/11/2024	09/12/2024
Barium	65.3	9.73	"	"	"	HJD	"	"
Cadmium	0.179	0.0973	"	"	"	HJD	"	"

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 Project Number: [none]
 Project: KMG - Fehm 7 8 24 25 26 41-32 O SA

AST-B11@3"

9/11/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409299-18 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Copper	ND	9.73	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	U
Lead	9.26	0.973	"	"	"	HJD	"	"	
Nickel	6.02	0.973	"	"	"	HJD	"	"	
Selenium	ND	0.253	"	"	"	HJD	"	"	U
Silver	ND	0.0973	"	"	"	HJD	"	"	U
Zinc	ND	36.0	"	"	"	HJD	"	"	U

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 Project Number: [none]
 Project: KMG - Fehrn 7 8 24 25 26 41-32 O SA

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B411127 - EPA 3550B										
Blank (B411127-BLK1)										
					Prepared: 09/11/2024 Analyzed: 09/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.0	50-150			

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B411127 - EPA 3550B										
LCS (B411127-BS1)					Prepared: 09/11/2024 Analyzed: 09/11/2024					
Diesel (C10-C28)	941	50.0	mg/kg	1000		94.1	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Dan Coloccia
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B411127 - EPA 3550B										
Matrix Spike (B411127-MS1)		Source: E409259-01			Prepared: 09/11/2024 Analyzed: 09/11/2024					
Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehrn 7 8 24 25 26 41-32 O SA

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B411127 - EPA 3550B										
Matrix Spike Dup (B411127-MSD1)					Source: E409259-01					Prepared: 09/11/2024 Analyzed: 09/11/2024
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	7.14	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	5.68	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Dan Coloccia
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I1135 - EPA 5030 (soil)										
Blank (B4I1135-BLK1)										
					Prepared: 09/11/2024 Analyzed: 09/11/2024					
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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I1135 - EPA 5030 (soil)

LCS (B4I1135-BS1)

Prepared: 09/11/2024 Analyzed: 09/11/2024

1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100		92.3	70-130			
1,3,5-Trimethylbenzene	0.0943	0.00200	"	0.100		94.3	70-130			
Benzene	0.0972	0.00200	"	0.100		97.2	70-130			
Ethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Naphthalene	0.0894	0.00380	"	0.100		89.4	70-130			
Toluene	0.0899	0.00200	"	0.100		89.9	70-130			
o-Xylene	0.0924	0.00200	"	0.100		92.4	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B411135 - EPA 5030 (soil)

Matrix Spike (B411135-MS1)	Source: E409285-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
1,2,4-Trimethylbenzene	0.0840	0.00200	mg/kg	0.100	ND	84.0	70-130			
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Benzene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
Ethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.2	70-130			

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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B411135 - EPA 5030 (soil)

Matrix Spike Dup (B411135-MSD1)	Source: E409285-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0833	0.00200	mg/kg	0.100	ND	83.3	70-130	0.860	20	
1,3,5-Trimethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	4.92	20	
Benzene	0.0927	0.00200	"	0.100	ND	92.7	70-130	6.70	20	
Ethylbenzene	0.0871	0.00200	"	0.100	ND	87.1	70-130	4.62	20	
Naphthalene	0.0868	0.00380	"	0.100	ND	86.8	70-130	15.5	20	
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130	4.67	20	
o-Xylene	0.0837	0.00200	"	0.100	ND	83.7	70-130	5.64	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.1	70-130	7.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 7 8 24 25 26 41-32 O SA

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I1152 - EPA 3050B

Blank (B4I1152-BLK1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Arsenic	ND	0.290	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.100	"							U
Zinc	ND	37.0	"							U

LCS (B4I1152-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Arsenic	5.09	0.290	mg/kg	5.00	102	80-120
Barium	542	10.0	"	500	108	80-120
Cadmium	5.23	0.100	"	5.00	105	80-120
Copper	50.3	10.0	"	50.0	101	80-120
Lead	5.06	1.00	"	5.00	101	80-120
Nickel	4.96	1.00	"	5.00	99.2	80-120
Selenium	4.84	0.260	"	5.00	96.7	80-120
Silver	5.20	0.100	"	5.00	104	80-120
Zinc	49.3	37.0	"	50.0	98.7	80-120

Matrix Spike (B4I1152-MS1)

Source: E409299-01

Prepared: 09/11/2024 Analyzed: 09/12/2024

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Dan Coloccia
Project Number: [none]
Project: KMG - Fehn 7 8 24 25 26 41-32 O SA

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B41152 - EPA 3050B

Matrix Spike (B41152-MS1)		Source: E409299-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Arsenic	6.92	0.271	mg/kg	4.66	1.74	111	75-125			
Barium	521	9.33	"	466	57.6	99.3	75-125			
Cadmium	5.04	0.0933	"	4.66	0.240	103	75-125			
Copper	53.7	9.33	"	46.6	7.18	99.8	75-125			
Lead	13.7	0.933	"	4.66	8.71	107	75-125			
Nickel	9.26	0.933	"	4.66	4.87	94.0	75-125			
Selenium	4.56	0.243	"	4.66	0.116	95.4	75-125			
Silver	4.81	0.0933	"	4.66	0.0573	102	75-125			
Zinc	78.9	34.5	"	46.6	32.2	100	75-125			

Matrix Spike Dup (B41152-MSD1)		Source: E409299-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Arsenic	5.80	0.244	mg/kg	4.20	1.74	96.8	75-125	17.7	20	
Barium	469	8.40	"	420	57.6	98.0	75-125	10.4	20	
Cadmium	4.45	0.0840	"	4.20	0.240	100	75-125	12.3	20	
Copper	49.1	8.40	"	42.0	7.18	99.9	75-125	8.96	20	
Lead	12.9	0.840	"	4.20	8.71	98.8	75-125	6.44	20	
Nickel	8.93	0.840	"	4.20	4.87	96.5	75-125	3.63	20	
Selenium	3.88	0.218	"	4.20	0.116	89.7	75-125	16.1	20	
Silver	4.30	0.0840	"	4.20	0.0573	101	75-125	11.2	20	
Zinc	73.3	31.1	"	42.0	32.2	97.9	75-125	7.35	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehn 7 8 24 25 26 41-32 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I1142 - EPA 3580

Blank (B4I1142-BLK1)

Prepared: 09/11/2024 Analyzed: 09/11/2024

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	97.9	60-130
Surrogate: Anthracene-d10	180		"	200	88.7	60-130
Surrogate: Pyrene-d10	200		"	200	102	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	104	60-130

LCS (B4I1142-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	92.7	70-130
2-Methylnaphthalene	0.185	0.002	"	0.200	92.3	70-130
Acenaphthene	0.201	0.020	"	0.200	101	70-130
Anthracene	0.179	0.020	"	0.200	89.3	70-130

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B411142 - EPA 3580

LCS (B411142-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.8	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.4	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.0	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.5	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.3	70-130			
Chrysene	0.180	0.020	"	0.200		90.0	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200		101	70-130			
Fluoranthene	0.171	0.020	"	0.200		85.5	70-130			
Fluorene	0.204	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		86.8	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.1	70-130			
Pyrene	0.193	0.020	"	0.200		96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	180		"	200		90.9	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B411142-MS1)

Source: E409291-01

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.014	87.5	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200	0.017	85.6	70-130			
Acenaphthene	0.199	0.020	"	0.200	0.003	98.0	70-130			
Anthracene	0.183	0.020	"	0.200	ND	91.3	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	ND	94.2	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	0.001	99.8	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200	0.003	94.9	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.004	95.8	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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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Batch B411142 - EPA 3580

Matrix Spike (B411142-MS1)	Source: E409291-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.5	70-130			
Chrysene	0.182	0.020	"	0.200	ND	90.8	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	113	70-130			
Fluoranthene	0.184	0.020	"	0.200	0.002	91.3	70-130			
Fluorene	0.208	0.020	"	0.200	0.003	103	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	0.002	94.1	70-130			
Naphthalene	0.196	0.002	"	0.200	0.007	94.6	70-130			
Phenanthrene	0.185	0.020	"	0.200	0.006	89.5	70-130			
Pyrene	0.194	0.020	"	0.200	0.003	95.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B411142-MSD1)	Source: E409291-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.014	92.0	70-130	4.66	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	0.017	91.4	70-130	5.98	20	
Acenaphthene	0.204	0.020	"	0.200	0.003	100	70-130	2.19	20	
Anthracene	0.180	0.020	"	0.200	ND	89.9	70-130	1.45	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	ND	91.3	70-130	3.21	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	0.001	97.9	70-130	1.85	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.003	96.0	70-130	1.16	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.004	92.5	70-130	3.50	20	
Benzo (k) fluoranthene	0.194	0.020	"	0.200	ND	97.2	70-130	0.283	20	
Chrysene	0.179	0.020	"	0.200	ND	89.7	70-130	1.20	20	
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130	0.138	20	
Fluoranthene	0.179	0.020	"	0.200	0.002	88.7	70-130	2.82	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B411142 - EPA 3580

Matrix Spike Dup (B411142-MSD1)	Source: E409291-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Fluorene	0.207	0.020	mg/kg	0.200	0.003	102	70-130	0.610	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	0.002	92.5	70-130	1.75	20	
Naphthalene	0.202	0.002	"	0.200	0.007	97.7	70-130	3.09	20	
Phenanthrene	0.189	0.020	"	0.200	0.006	91.6	70-130	2.16	20	
Pyrene	0.186	0.020	"	0.200	0.003	91.4	70-130	4.06	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	180		"	200		92.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Batch B411151 - EPA 3580

Blank (B411151-BLK1)	Prepared: 09/11/2024 Analyzed: 09/12/2024									
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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I1151 - EPA 3580

Blank (B4I1151-BLK1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Naphthalene	ND	0.002	mg/kg							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		87.5	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

LCS (B4I1151-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		89.9	70-130			
2-Methylnaphthalene	0.180	0.002	"	0.200		90.0	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.176	0.020	"	0.200		88.2	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200		91.6	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.6	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.4	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.6	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.4	70-130			
Fluorene	0.200	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200		89.9	70-130			
Naphthalene	0.199	0.002	"	0.200		99.5	70-130			
Phenanthrene	0.182	0.020	"	0.200		90.9	70-130			
Pyrene	0.188	0.020	"	0.200		93.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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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Batch B411151 - EPA 3580

LCS (B411151-BS1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Surrogate: Anthracene-d10	180		ug/kg	200		90.9	60-130		
Surrogate: Pyrene-d10	200		"	200		99.7	60-130		
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130		

Matrix Spike (B411151-MS1)

Source: E409299-18

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.5	70-130		
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.7	70-130		
Acenaphthene	0.212	0.020	"	0.200	ND	106	70-130		
Anthracene	0.188	0.020	"	0.200	0.0005	93.9	70-130		
Benzo (a) anthracene	0.208	0.005	"	0.200	0.002	103	70-130		
Benzo (a) pyrene	0.208	0.020	"	0.200	0.003	103	70-130		
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.001	105	70-130		
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	105	70-130		
Benzo (k) fluoranthene	0.220	0.020	"	0.200	ND	110	70-130		
Chrysene	0.189	0.020	"	0.200	0.002	93.3	70-130		
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130		
Fluoranthene	0.182	0.020	"	0.200	0.003	89.6	70-130		
Fluorene	0.216	0.020	"	0.200	ND	108	70-130		
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130		
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130		
Phenanthrene	0.195	0.020	"	0.200	ND	97.7	70-130		
Pyrene	0.207	0.020	"	0.200	0.005	101	70-130		

Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130		
Surrogate: Anthracene-d10	180		"	200		92.0	60-130		
Surrogate: Pyrene-d10	200		"	200		101	60-130		
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130		

Matrix Spike Dup (B411151-MSD1)

Source: E409299-18

Prepared: 09/11/2024 Analyzed: 09/12/2024

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B411151 - EPA 3580										
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130	2.31	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130	1.93	20	
Acenaphthene	0.209	0.020	"	0.200	ND	104	70-130	1.76	20	
Anthracene	0.184	0.020	"	0.200	0.0005	91.8	70-130	2.26	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.002	94.2	70-130	8.69	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	0.003	100	70-130	2.53	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.001	96.5	70-130	8.06	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	ND	97.1	70-130	7.38	20	
Benzo (k) fluoranthene	0.198	0.020	"	0.200	ND	98.8	70-130	10.6	20	
Chrysene	0.185	0.020	"	0.200	0.002	91.3	70-130	2.08	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.6	70-130	3.59	20	
Fluoranthene	0.181	0.020	"	0.200	0.003	89.1	70-130	0.498	20	
Fluorene	0.206	0.020	"	0.200	ND	103	70-130	4.74	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	5.84	20	
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130	1.91	20	
Phenanthrene	0.190	0.020	"	0.200	ND	94.9	70-130	2.97	20	
Pyrene	0.205	0.020	"	0.200	0.005	100	70-130	1.16	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 7 8 24 25 26 41-32 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.

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