



Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Fehr 25-32

Project Number - [none]

Attached are your analytical results for KMG - Fehr 25-32 received by Origins Laboratory September 11, 2024. This project is associated with Origins project number E409303-01.

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 - Fehr 25-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E409303-01	Soil	September 11, 2024 10:00	09/11/2024 16:26
FL-B01@4'	E409303-02	Soil	September 11, 2024 10:08	09/11/2024 16:26

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 - Fehm 25-32

ORIGINS

ORIGINS WORK ORDER #
E409303

Page 1 of 1

LABORATORY LLC

Client: Eagle Environmental (04)

Project Manager: D. Coloccia

Key:

Address: 8000 W. 44th Ave

Project Name: Fehm 25-32

W=Water

Telephone Number: Wheat Ridge, Co 80033

Project Number: -

GW=Groundwater

Telephone Number: 303-433-0474

Collected By: JD/SJ

SW=Surface Water

Email Address: dcoloccia@eagle-environ.com

Invoice/Billing Info: Final

WW=Waste Water

S=Soil | SQ=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments
1	W-301 (G)	9/11/24	1200	3	S	UNP			* Run for 2H
2	W-301 (G)	9/11/24	1202	3	S	UNP			Hold for 2H
3	W-301 (G)	9/11/24	1208	3	S	UNP			Analysis
4	W-301 (G)	9/11/24	1210	3	S	UNP			Analysis
5									
6									
7									
8									
9									
10									

Requisitioned By: [Signature] Date: 9/11/24 Time: 1024

Received By: [Signature] Date: 9/11/24 Time: 1024

1725 Elk Place Denver, Co 80211 | # 303.433.1322 | originslab.com |

Temp Received - 3. () Received On Ice? Yes No

For Lab Sample Receiving Only:

Turnaround Time
 SAME DAY 24 Hr
 48 Hr 72 Hr
 Standard

Origins Laboratory

Jefe Pellegrini

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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 25-32

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E409303

Client: Eagle

Client Project ID: Fehr

Checklist Completed by: CHO

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

Date/time completed: 9/11/24

Airbill #: _____

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

Cooler Number/Temperature: 1 13.1 °c _____ °c _____ °c _____ °c

Thermometer ID: T005

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

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

Reviewed by (Project Manager) _____

Date/Time Reviewed _____

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 25-32

WH-B01@6'
9/11/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-01 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1150	ZZZ	09/11/2024	09/12/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 102 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1155	ZZZ	09/11/2024	09/11/2024	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 91.3 % 70-130 " " "
 Surrogate: Toluene-d8 96.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 83.6 % 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

Origins Laboratory



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 Project Number: [none]
 Project: KMG - Fehr 25-32

WH-B01@6'
9/11/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1151	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	99.4 %	60-130			"	"	"
Surrogate: Anthracene-d10	91.6 %	60-130			"	"	"
Surrogate: Pyrene-d10	101 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.29	0.255	mg/kg	10	B4I1154	HJD	09/11/2024	09/12/2024
Barium	148	8.80	"	"	"	HJD	"	"
Cadmium	0.264	0.0880	"	"	"	HJD	"	"

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WH-B01@6'

9/11/2024 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Copper	13.8	8.80	mg/kg	10	B4I1154	HJD	09/11/2024	09/12/2024	
Lead	12.2	0.880	"	"	"	HJD	"	"	
Nickel	9.46	0.880	"	"	"	HJD	"	"	
Selenium	0.238	0.229	"	"	"	HJD	"	"	
Silver	0.153	0.0880	"	"	"	HJD	"	"	
Zinc	56.1	32.5	"	"	"	HJD	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

FL-B01@4'

9/11/2024 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-02 (Soil)
Origins Laboratory

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1150	ZZZ	09/11/2024	09/12/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 95.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1155	ZZZ	09/11/2024	09/11/2024	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 88.1 % 70-130 " " "

Surrogate: Toluene-d8 97.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 83.4 % 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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 Project Number: [none]
 Project: KMG - Fehr 25-32

FL-B01@4'

9/11/2024 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4I1151	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	100 %	60-130			"	"	"	
Surrogate: Anthracene-d10	89.3 %	60-130			"	"	"	
Surrogate: Pyrene-d10	93.4 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.25	0.259	mg/kg	10	B4I1154	HJD	09/11/2024	09/12/2024
Barium	254	8.93	"	"	"	HJD	"	"
Cadmium	0.179	0.0893	"	"	"	HJD	"	"

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FL-B01@4'

9/11/2024 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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E409303-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Copper	9.36	8.93	mg/kg	10	B4I1154	HJD	09/11/2024	09/12/2024	
Lead	8.33	0.893	"	"	"	HJD	"	"	
Nickel	6.81	0.893	"	"	"	HJD	"	"	
Selenium	ND	0.232	"	"	"	HJD	"	"	U
Silver	ND	0.0893	"	"	"	HJD	"	"	U
Zinc	34.1	33.0	"	"	"	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 25-32

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 B411150 - EPA 3550B										
Blank (B411150-BLK1)										
					Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

Origins Laboratory



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Dan Coloccia
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 Project: KMG - Fehr 25-32

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 B411150 - EPA 3550B										
LCS (B411150-BS1)										
					Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	842	50.0	mg/kg	1000		84.2	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000		90.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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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 B411150 - EPA 3550B										
Matrix Spike (B411150-MS1)		Source: E409297-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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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 B411150 - EPA 3550B										
Matrix Spike Dup (B411150-MSD1)		Source: E409297-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.19	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	2.42	35	
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

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 Project: KMG - Fehr 25-32

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 B4I1155 - EPA 5030 (soil)										
Blank (B4I1155-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	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.4	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

**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 B4I1155 - EPA 5030 (soil)

LCS (B4I1155-BS1)

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

1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100		92.8	70-130			
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100		96.1	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100		97.8	70-130			
Naphthalene	0.0954	0.00380	"	0.100		95.4	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
o-Xylene	0.0963	0.00200	"	0.100		96.3	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.3	70-130			

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**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 B411155 - EPA 5030 (soil)

Matrix Spike (B411155-MS1)	Source: E409300-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Naphthalene	0.0998	0.00380	"	0.100	ND	99.8	70-130			
Toluene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
o-Xylene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	0.00212	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 25-32

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 B41155 - EPA 5030 (soil)

Matrix Spike Dup (B41155-MSD1)	Source: E409300-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130	1.30	20	
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	1.76	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	2.59	20	
Ethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	0.653	20	
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130	2.63	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	2.92	20	
o-Xylene	0.0968	0.00200	"	0.100	ND	96.8	70-130	0.955	20	
m,p-Xylene	0.204	0.00400	"	0.200	0.00212	101	70-130	1.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

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 B4I1154 - EPA 3050B

Blank (B4I1154-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 (B4I1154-BS1)

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

Arsenic	5.02	0.290	mg/kg	5.00	100	80-120
Barium	485	10.0	"	500	97.1	80-120
Cadmium	4.80	0.100	"	5.00	96.0	80-120
Copper	48.9	10.0	"	50.0	97.9	80-120
Lead	4.66	1.00	"	5.00	93.2	80-120
Nickel	4.97	1.00	"	5.00	99.5	80-120
Selenium	4.86	0.260	"	5.00	97.1	80-120
Silver	5.11	0.100	"	5.00	102	80-120
Zinc	51.1	37.0	"	50.0	102	80-120

Matrix Spike (B4I1154-MS1)

Source: E409303-01

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

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 Project: KMG - Fehr 25-32

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 B411154 - EPA 3050B

Matrix Spike (B411154-MS1)	Source: E409303-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Arsenic	8.74	0.276	mg/kg	4.75	4.29	93.6	75-125			
Barium	625	9.51	"	475	148	100	75-125			
Cadmium	4.88	0.0951	"	4.75	0.264	97.2	75-125			
Copper	58.2	9.51	"	47.5	13.8	93.5	75-125			
Lead	16.3	0.951	"	4.75	12.2	87.1	75-125			
Nickel	12.8	0.951	"	4.75	9.46	71.1	75-125			QM-07
Selenium	4.53	0.247	"	4.75	0.238	90.3	75-125			
Silver	4.99	0.0951	"	4.75	0.153	102	75-125			
Zinc	96.3	35.2	"	47.5	56.1	84.4	75-125			

Matrix Spike Dup (B411154-MSD1)	Source: E409303-01			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Arsenic	8.67	0.278	mg/kg	4.79	4.29	91.3	75-125	0.854	20	
Barium	670	9.58	"	479	148	109	75-125	6.90	20	
Cadmium	5.25	0.0958	"	4.79	0.264	104	75-125	7.32	20	
Copper	60.8	9.58	"	47.9	13.8	98.2	75-125	4.36	20	
Lead	17.4	0.958	"	4.79	12.2	109	75-125	6.50	20	
Nickel	13.2	0.958	"	4.79	9.46	77.3	75-125	2.48	20	
Selenium	5.12	0.249	"	4.79	0.238	102	75-125	12.1	20	
Silver	5.40	0.0958	"	4.79	0.153	110	75-125	8.02	20	
Zinc	98.4	35.5	"	47.9	56.1	88.1	75-125	2.16	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

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

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

Surrogate: Fluorene-d10	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	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

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

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 B411151 - EPA 3580

LCS (B411151-BS1)

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

Benzo (a) anthracene	0.183	0.005	mg/kg	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			
Surrogate: Anthracene-d10	180		"	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			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

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 B411151 - EPA 3580

Matrix Spike (B411151-MS1)	Source: E409299-18			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Benzo (k) fluoranthene	0.220	0.020	mg/kg	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						
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	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 25-32

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 B411151 - EPA 3580

Matrix Spike Dup (B411151-MSD1)	Source: E409299-18			Prepared: 09/11/2024 Analyzed: 09/12/2024						
Fluorene	0.206	0.020	mg/kg	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 25-32

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Jordan A. Bynon, Project Manager