



Ensolum

June 25, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Howard 30N, 4C, 29N-21HZ Project Number - 09A14171102
OSA Fac BT1**

Attached are your analytical results for KMG - Howard 30N, 4C, 29N-21HZ OSA Fac BT1 received by Origins Laboratory June 18, 2025. This project is associated with Origins project number E5F0382-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B06@10'	E5F0382-01	Soil	June 18, 2025 10:20	06/18/2025 15:38
E03@5'	E5F0382-02	Soil	June 18, 2025 10:10	06/18/2025 15:38
E04@5'	E5F0382-03	Soil	June 18, 2025 10:30	06/18/2025 15:38
S03@5'	E5F0382-04	Soil	June 18, 2025 11:00	06/18/2025 15:38
S04@5'	E5F0382-05	Soil	June 18, 2025 10:50	06/18/2025 15:38
S05@5'	E5F0382-06	Soil	June 18, 2025 10:40	06/18/2025 15:38
W04@5'	E5F0382-07	Soil	June 18, 2025 10:00	06/18/2025 15:38

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Ensolum
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Jeremy Espinoza
Project Number: 09A14171102
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Fac BT1

ORIGINS
LABORATORY

Please Provide Partial Report When Available

CPUC094

Page 1 of 2

Client: Ensolum
Address: _____

Project Manager: J. Espinoza
Project Name: Howard 30N 4C 29N-21HZ OSA Fac BT1
Project Number: 09A14171102

Telephone Number: _____
Email Address: AM@Ensolum

Invoice/billing Info: Impacted/MTX
Collected By: JE
L=Liquid
W=Waste Water
SW=Surface Water
GW=Groundwater

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Unpres | HCL= Hydrochloric | HNO3= Nitric | H2SO4= Sulfuric | NaOH= Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
							BTEX	TMBs	
1	B06@10-	6-18	1020	3	S	WOP	X	X	
2	E03@5-		1030				X	X	
3	E04@5-		1030				X	X	
4	S03@5-		1100				X	X	
5	S04@5-		1050				X	X	
6	S05@5-		1040				X	X	
7	W04@5-		1000				X	X	
8	B06@10-V		1021	2			X	X	
9	E03@5-V		1011				X	X	
10	E04@5-V		1031				X	X	

Temp Received: 1.9°C
Received On Ice? Yes No

Relinquished By: [Signature]
Date: 6-18-2025
Time: 15:38
Received By: NLM
Date: 06/18/25
Time: 15:38

Turnaround Time
 SAME DAY
 24 Hr
 48 Hr
 72 Hr

Origins Laboratory
[Signature]

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Ensolum
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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1



ESH0582

Page 2 of 2

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
1	S0305-V	6-18	10:01	2	S UHP			Wet Versus pending analysis
2	S0405-V		10:51	1				
3	S0505-V		10:41	1				
4	W0405-V		10:01	1				
5								
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 6-18-2025 Time: 15:38
 Received By: NLM Date: 06/18/25 Time: 15:38

Temp Received: 19°C
 Received On Ice? Yes No
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72
 Standard

Client: ENSO LUM Project Manager: J Espinoza
 Address: _____ Project Name: Howard 30N, 4C, 29N-21HZ OSA Fac BT1
 Project Number: 09A14171102
 Telephone Number: _____ Collected By: [Signature]
 Email Address: KMGT@ENSO.COM Invoice Billing Info: Impacted Area
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 W=Water
 GW=Groundwater
 SW=Surface Water
 LW=Leachate
 L=Liquid

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Ensolium
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Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESFO382

Client: Ensolium

Client Project ID: Howard 30N, 4C, 29N-21HZ
Fac BT1

Checklist Completed by: NB / RF

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

Date/time completed: 01/18/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C (Describe)

Thermometer ID: 7007

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

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

Reviewed by (Project Manager)

06/19/25
Date/Time Reviewed

Origins Laboratory



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Kayla Kenyon For Jen Pellegrini, Project Manager



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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B06@10'

6/18/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0382-01 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	4.72		0.0993	mg/L	1	B5F1906	06/19/2025	06/20/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	0.00372		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	
1,3,5-Trimethylbenzene	0.00560		0.00200	"	"	"	"	"	
Benzene	0.0684		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.0550		0.00200	"	"	"	"	"	
Xylenes, total	0.0203		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
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Surrogate: Toluene-d8	96.4 %			70-130		"	"	"	
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Surrogate: 4-Bromofluorobenzene	98.9 %			70-130		"	"	"	
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 Fac BT1

B06@10'

6/18/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0382-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	88.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

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B06@10'

6/18/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0382-01 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.64		0.288	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	244		81.4	"	"	"	"	"	
Lead	ND		13.9	"	"	"	"	"	U
Nickel	ND		25.8	"	"	"	"	"	U

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 Fac BT1

E03@5'
6/18/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0382-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.29		0.100	mg/L	1	B5F1906	06/19/2025	06/20/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	107 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	U
1,3,5-Trimethylbenzene	0.00312		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %			70-130		"	"	"	

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 Fac BT1

E03@5'
 6/18/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-02 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130	"	"	"	"	
Surrogate: Anthracene-d10	87.5 %			60-130	"	"	"	"	
Surrogate: Pyrene-d10	96.2 %			60-130	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130	"	"	"	"	

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 Fac BT1

E03@5'
 6/18/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-02 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.76		0.277	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	289		78.3	"	"	"	"	"	
Lead	ND		13.4	"	"	"	"	"	U
Nickel	ND		24.8	"	"	"	"	"	U

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 Fac BT1

E04@5'
6/18/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-03 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.310		0.100	mg/L	1	B5F1906	06/19/2025	06/20/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	108 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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 Fac BT1

E04@5'
 6/18/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-03 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130	"	"	"	"	
Surrogate: Anthracene-d10	88.0 %			60-130	"	"	"	"	
Surrogate: Pyrene-d10	95.8 %			60-130	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130	"	"	"	"	

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Kayla Kenyon For Jen Pellegrini, Project Manager



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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

E04@5'
6/18/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.08		0.257	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	222		72.7	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U

Origins Laboratory

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S03@5'
6/18/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0382-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.439		0.100	mg/L	1	B5F1906	06/19/2025	06/20/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	0.0130		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	
1,3,5-Trimethylbenzene	0.00982		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0311		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.205		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %			70-130		"	"	"	

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 Wheat Ridge CO 80033

Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S03@5'
6/18/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0382-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	0.014		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	
2-Methylnaphthalene	0.018		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	87.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 Wheat Ridge CO 80033

Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S03@5'
6/18/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	7.27		0.255	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	168		72.0	"	"	"	"	"	
Lead	14.4		12.3	"	"	"	"	"	
Nickel	ND		22.8	"	"	"	"	"	U

Origins Laboratory

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S04@5'
6/18/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-05 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.20		0.100	mg/L	1	B5F1906	06/19/2025	06/20/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	110 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S04@5'
6/18/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	87.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S04@5'
6/18/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.03		0.251	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	767		70.9	"	"	"	"	"	
Lead	ND		12.1	"	"	"	"	"	U
Nickel	ND		22.5	"	"	"	"	"	U

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Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S05@5'
6/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-06 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.59		0.100	mg/L	1	B5F1906	06/19/2025	06/20/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %			70-130		"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S05@5'
6/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %			60-130	"	"	"	"	
Surrogate: Anthracene-d10	87.1 %			60-130	"	"	"	"	
Surrogate: Pyrene-d10	96.7 %			60-130	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130	"	"	"	"	

Origins Laboratory

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 Fac BT1

S05@5'
6/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	10.2		0.251	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	117		71.1	"	"	"	"	"	
Lead	13.8		12.1	"	"	"	"	"	
Nickel	ND		22.5	"	"	"	"	"	U

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W04@5'

6/18/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-07 (Soil)
 Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.665		0.0997	mg/L	1	B5F1907	06/19/2025	06/20/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F1904	06/19/2025	06/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.5 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F1838	06/18/2025	06/19/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %			70-130		"	"	"	

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W04@5'

6/18/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-07 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2028	06/20/2025	06/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

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 Fac BT1

W04@5'

6/18/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0382-07 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	7.05		0.262	mg/kg	10	B5F2031	06/20/2025	06/23/2025	
Barium	141		74.0	"	"	"	"	"	
Lead	ND		12.6	"	"	"	"	"	U
Nickel	ND		23.5	"	"	"	"	"	U

Origins Laboratory

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 Fac BT1

Classical Chemistry Parameters - 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 B5F1906 - DTPA Sorbitol Preparation

Blank (B5F1906-BLK1)

Prepared: 06/19/2025 Analyzed: 06/20/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5F1906-DUP1)

Source: E5F0376-03

Prepared: 06/19/2025 Analyzed: 06/20/2025

Boron	0.0414	0.0999	mg/L		0.0402			2.84	50	U
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Batch B5F1907 - DTPA Sorbitol Preparation

Blank (B5F1907-BLK1)

Prepared: 06/19/2025 Analyzed: 06/20/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5F1907-DUP1)

Source: E5F0382-07

Prepared: 06/19/2025 Analyzed: 06/20/2025

Boron	0.698	0.0996	mg/L		0.665			4.84	50	
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

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 B5F2028 - EPA 3580

Blank (B5F2028-BLK1)

Prepared: 06/20/2025 Analyzed: 06/20/2025

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 (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
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		88.4	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B5F2028-BS1)

Prepared: 06/20/2025 Analyzed: 06/20/2025

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		102	70-130			
Acenaphthene	0.209	0.020	"	0.200		104	70-130			
Anthracene	0.173	0.020	"	0.200		86.4	70-130			
Benzo (a) anthracene	0.179	0.005	"	0.200		89.6	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200		101	70-130			

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

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 B5F2028 - EPA 3580

LCS (B5F2028-BS1)

Prepared: 06/20/2025 Analyzed: 06/20/2025

Benzo (b) fluoranthene	0.219	0.020	mg/kg	0.200		110	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.7	70-130			
Chrysene	0.193	0.020	"	0.200		96.4	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.6	70-130			
Fluoranthene	0.201	0.020	"	0.200		101	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200		96.2	70-130			
Naphthalene	0.208	0.002	"	0.200		104	70-130			
Pyrene	0.186	0.020	"	0.200		93.1	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		87.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B5F2028-MS1)

Source: E5F0382-01

Prepared: 06/20/2025 Analyzed: 06/20/2025

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	0.003	107	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130			
Acenaphthene	0.213	0.020	"	0.200	0.0004	107	70-130			
Anthracene	0.180	0.020	"	0.200	0.002	89.1	70-130			
Benzo (a) anthracene	0.186	0.005	"	0.200	ND	93.2	70-130			
Benzo (a) pyrene	0.215	0.020	"	0.200	0.002	107	70-130			
Benzo (b) fluoranthene	0.226	0.020	"	0.200	0.001	112	70-130			
Benzo (k) fluoranthene	0.217	0.020	"	0.200	0.001	108	70-130			
Chrysene	0.200	0.020	"	0.200	0.0009	99.5	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.004	99.7	70-130			
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130			
Fluorene	0.220	0.020	"	0.200	0.0009	110	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 B5F2028 - EPA 3580

Matrix Spike (B5F2028-MS1)		Source: E5F0382-01			Prepared: 06/20/2025 Analyzed: 06/20/2025					
Indeno (1,2,3-cd) pyrene	0.204	0.020	mg/kg	0.200	0.004	100	70-130			
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Pyrene	0.194	0.020	"	0.200	ND	97.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		89.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B5F2028-MSD1)		Source: E5F0382-01			Prepared: 06/20/2025 Analyzed: 06/20/2025					
1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	0.003	105	70-130	2.24	20	
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130	1.80	20	
Acenaphthene	0.211	0.020	"	0.200	0.0004	105	70-130	1.20	20	
Anthracene	0.181	0.020	"	0.200	0.002	89.4	70-130	0.307	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	ND	87.4	70-130	6.41	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	0.002	106	70-130	0.425	20	
Benzo (b) fluoranthene	0.224	0.020	"	0.200	0.001	112	70-130	0.754	20	
Benzo (k) fluoranthene	0.204	0.020	"	0.200	0.001	101	70-130	6.19	20	
Chrysene	0.182	0.020	"	0.200	0.0009	90.6	70-130	9.37	20	
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	0.004	105	70-130	5.07	20	
Fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	2.43	20	
Fluorene	0.216	0.020	"	0.200	0.0009	108	70-130	1.67	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.004	101	70-130	1.28	20	
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130	2.11	20	
Pyrene	0.188	0.020	"	0.200	ND	94.1	70-130	3.09	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		88.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			

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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 B5F2028 - EPA 3580

Matrix Spike Dup (B5F2028-MSD1)

Source: E5F0382-01

Prepared: 06/20/2025 Analyzed: 06/20/2025

Surrogate: Benzo (a) pyrene-d12	210		ug/kg	200		107	60-130			
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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
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Batch B5F1904 - EPA 3550B

Blank (B5F1904-BLK1)

Prepared: 06/19/2025 Analyzed: 06/19/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

LCS (B5F1904-BS1)

Prepared: 06/19/2025 Analyzed: 06/19/2025

Diesel (C10-C28)	408	25.0	mg/kg	500		81.6	70-130			
Residual Range Organics (C28-C40)	408	100	"	500		81.7	70-130			
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Matrix Spike (B5F1904-MS1)

Source: E5F0380-02

Prepared: 06/19/2025 Analyzed: 06/19/2025

Diesel (C10-C28)	421	25.0	mg/kg	500	ND	84.3	70-130			QM-07
Residual Range Organics (C28-C40)	425	100	"	500	ND	85.0	70-130			QM-07
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Matrix Spike Dup (B5F1904-MSD1)

Source: E5F0380-02

Prepared: 06/19/2025 Analyzed: 06/19/2025

Diesel (C10-C28)	415	25.0	mg/kg	500	ND	83.0	70-130	1.50	35	QM-07
Residual Range Organics (C28-C40)	418	100	"	500	ND	83.7	70-130	1.49	35	QM-07
Surrogate: o-Terphenyl	27		"	24.9		110	50-150			

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Kayla Kenyon For Jen Pellegrini, Project Manager



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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 B5F2031 - EPA 3050B

Blank (B5F2031-BLK1)

Prepared: 06/20/2025 Analyzed: 06/23/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U

LCS (B5F2031-BS1)

Prepared: 06/20/2025 Analyzed: 06/23/2025

Arsenic	5.48	0.290	mg/kg	5.00		110	80-120			
Barium	571	82.0	"	500		114	80-120			
Lead	5.55	14.0	"	5.00		111	80-120			U
Nickel	5.51	26.0	"	5.00		110	80-120			U

Matrix Spike (B5F2031-MS1)

Source: E5F0185-08

Prepared: 06/20/2025 Analyzed: 06/23/2025

Arsenic	10.6	0.277	mg/kg	4.77	5.52	106	75-125			
Barium	735	78.2	"	477	176	117	75-125			
Lead	14.9	13.3	"	4.77	10.6	90.6	75-125			
Nickel	19.1	24.8	"	4.77	15.2	81.7	75-125			U

Matrix Spike Dup (B5F2031-MSD1)

Source: E5F0185-08

Prepared: 06/20/2025 Analyzed: 06/23/2025

Arsenic	10.5	0.281	mg/kg	4.84	5.52	103	75-125	0.926	20	
Barium	716	79.4	"	484	176	112	75-125	2.56	20	
Lead	14.9	13.6	"	4.84	10.6	88.2	75-125	0.358	20	
Nickel	19.2	25.2	"	4.84	15.2	83.4	75-125	0.736	20	U

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 Fac BT1

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 B5F1838 - EPA 5030 (soil)

Blank (B5F1838-BLK1)

Prepared: 06/18/2025 Analyzed: 06/19/2025

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
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		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

LCS (B5F1838-BS1)

Prepared: 06/18/2025 Analyzed: 06/19/2025

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0958	0.00200	"	0.100		95.8	70-130			
Ethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0977	0.00200	"	0.100		97.7	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.5	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.8	70-130			

Matrix Spike (B5F1838-MS1)

Source: E5F0350-01

Prepared: 06/18/2025 Analyzed: 06/19/2025

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	0.000940	108	70-130			
Benzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			

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 Fac BT1

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 B5F1838 - EPA 5030 (soil)

Matrix Spike (B5F1838-MS1)		Source: E5F0350-01			Prepared: 06/18/2025 Analyzed: 06/19/2025					
Ethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
Toluene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
o-Xylene	0.107	0.00200	"	0.100	0.00126	106	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike Dup (B5F1838-MSD1)		Source: E5F0350-01			Prepared: 06/18/2025 Analyzed: 06/19/2025					
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130	16.8	20	
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	0.000940	90.3	70-130	17.3	20	
Benzene	0.0866	0.00200	"	0.100	ND	86.6	70-130	6.67	20	
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	16.5	20	
Toluene	0.0865	0.00200	"	0.100	ND	86.5	70-130	7.99	20	
o-Xylene	0.0923	0.00200	"	0.100	0.00126	91.0	70-130	14.9	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.2	70-130	15.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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Jeremy Espinoza

Project Number: 09A14171102

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Fac BT1

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 on a wet weight basis.

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Kayla Kenyon For Jen Pellegrini, Project Manager