



Ensolum

October 29, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Briggs 1-11 WH-23738

Project Number - 09A14171529

Attached are your analytical results for KMG - Briggs 1-11 WH-23738 received by Origins Laboratory October 17, 2025. This project is associated with Origins project number E5J0440-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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





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

Jeremy Espinoza
Project Number: 09A14171529
Project: KMG - Briggs 1-11 WH-23738

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6	E5J0440-01	Soil	October 17, 2025 11:00	10/17/2025 17:31

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ESJ0440

Client: ANSOLVM

Address: 11049 W 44th Ave Ste 100

Telephone Number: Wheat Ridge, CO 80033

Email Address: LEMG-TEAM

Project Manager: Jeremy Espinoza

Project Name: Biggs 1-11 Wellhead - 23738

Project Number: 09A14171529

Collected By: JR

Invoice/Billing Info: Impacted 10xy

Key: W=Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, L=Liquid, S=Soil, SO=Solid, O=Oil, A=Air, G=Gas, UNP=Unpres, HCL=Hydrochloric, HNO3=Nitric, H2SO4=Sulfuric, NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	WH-Bole6	10/17/25	1100	3	S	UNP		
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished By: [Signature]

Date: 10/17/25

Time: 1650

Received By: [Signature]

Date: 10/17/25

Time: 1725

Relinquished By: [Signature]

Date: 10/17/25

Time: 1725

Received By: [Signature]

Date: 10/17/25

Time: 1650

Temp Received - 2.5°C

Kept On Ice? Yes No

Turnaround Time: 48 Hr 72 Hr SAME DAY 24 Hr Standard

Sample Receipt Checklist

Origins Work Order: 65J0440

Client: Ensolium

Client Project ID: Briggs H-11 WH-23738

Checklist Completed by: TEH / NKM

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

Date/time completed: 10 / 17 / 25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 25 °C (Describe)

Thermometer ID: T-004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾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) NKM Date/Time Reviewed 10 / 17 / 25



Ensolium
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Jeremy Espinoza
 Project Number: 09A14171529
 Project: KMG - Briggs 1-11 WH-23738

WH-B01@6'

10/17/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0440-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.292		0.125	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.196	0.245	mg/kg dry	1	B5J2012	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		31.1	mg/kg dry	1	B5J1706	10/17/2025	10/17/2025	U
Residual Range Organics (C28-C36)	ND		124	"	"	"	"	"	U
Surrogate: o-Terphenyl	89.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.0007	0.003	mg/kg dry	1	B5J1748	10/17/2025	10/18/2025	U
1,3,5-Trimethylbenzene	ND	0.0007	0.003	"	"	"	"	"	U
Benzene	ND	0.0006	0.003	"	"	"	"	"	U
Ethylbenzene	ND	0.0006	0.003	"	"	"	"	"	U
Toluene	ND	0.0008	0.003	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.003	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.100	0.049	0.256	"	"	"	"	"	J
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	

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Jeremy Espinoza
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WH-B01@6'

10/17/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5J0440-01 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %			70-130		B5J1748	10/17/2025	10/18/2025	
Surrogate: 4-Bromofluorobenzene	113 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.73		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	1.34		0.823	"	"	"	"	"	
Sodium	4.86		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.003	mg/kg dry	1	B5J1737	10/17/2025	10/17/2025	U
2-Methylnaphthalene	ND		0.003	"	"	"	"	"	U
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	ND		0.025	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U
Chrysene	ND		0.025	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.025	"	"	"	"	"	U
Fluoranthene	ND		0.025	"	"	"	"	"	U

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10/17/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0440-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluorene	ND		0.025	mg/kg dry	1	B5J1737	10/17/2025	10/17/2025	U
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	ND		0.003	"	"	"	"	"	U
Pyrene	ND		0.025	"	"	"	"	"	U
Surrogate: Fluorene-d10	93.8 %								
Surrogate: Anthracene-d10	92.8 %								
Surrogate: Pyrene-d10	99.8 %								
Surrogate: Benzo (a) pyrene-d12	97.8 %								
Percent Solids									
Total Solids, Percent	79.8			mass percent	1	B5J1749	10/17/2025	10/17/2025	
pH in Soil by 9045D									
pH	7.20			pH Units	1	B5J2005	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	3.06		0.0100	SAR	1	B5J2004	"	10/21/2025	
Specific Conductance Mod. 9050A									

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WH-B01@6'

10/17/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0440-01 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
Table 915 metals by EPA 6020B									
Arsenic	2.96		0.235	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	ND		66.3	"	"	"	"	"	U
Cadmium	ND		0.307	"	"	"	"	"	U
Copper	ND		37.2	"	"	"	"	"	U
Lead	14.2		11.3	"	"	"	"	"	
Nickel	ND		21.0	"	"	"	"	"	U
Selenium	ND		0.199	"	"	"	"	"	U
Silver	ND		0.646	"	"	"	"	"	U
Zinc	ND		299	"	"	"	"	"	U

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*** DEFAULT GENERAL METHOD *** - Quality Control
 Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J1749 - % Solids										
Duplicate (B5J1749-DUP1)			Source: E5J0423-01			Prepared: 10/17/2025 Analyzed: 10/17/2025				
Total Solids, Percent	91.7		mass percent		92.4			0.823	20	
Batch B5J2012 - EPA 3060A										
Blank (B5J2012-BLK1)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	ND	0.200	mg/kg wet							U
LCS (B5J2012-BS1)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	1.86	0.200	mg/kg wet	2.00		93.2	80-120			
Matrix Spike (B5J2012-MS1)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	1.94	0.246	mg/kg dry	2.46	ND	78.8	75-125			
Matrix Spike (B5J2012-MS2)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	249	24.8	mg/kg dry	291	ND	85.3	75-125			
Matrix Spike Dup (B5J2012-MSD1)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	1.91	0.243	mg/kg dry	2.43	ND	78.8	75-125	1.41	20	
Post Spike (B5J2012-PS1)			Prepared: 10/20/2025 Analyzed: 10/22/2025							
Hexavalent Chromium	50.6		ug/L	50.0	0.598	100	80-120			

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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 B5J2003 - DTPA Sorbitol Preparation

Blank (B5J2003-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5J2003-DUP1)

Source: E5J0409-02

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	0.112	0.126	mg/L dry		0.111			0.205	50	U
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Batch B5J2004 - Saturated Paste Metals

Blank (B5J2004-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

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

Duplicate (B5J2004-DUP1)

Source: E5J0440-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

SAR	ND	0.0100	SAR		3.06				200	U
Calcium PPM	55.2	10.0	mg/L		74.7			30.0	50	
Magnesium PPM	11.9	10.0	"		16.2			31.1	50	
Sodium PPM	84.3	10.0	"		112			28.0	50	

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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 B5J1737 - EPA 3580

Blank (B5J1737-BLK1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Acenaphthylene	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	190		ug/kg	200		92.6	60-130			
Surrogate: Anthracene-d10	180		"	200		91.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			

LCS (B5J1737-BS1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

1-Methylnaphthalene	0.199	0.002	mg/kg wet	0.201		99.0	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.201		100	70-130			
Acenaphthene	0.192	0.020	"	0.201		95.4	70-130			
Acenaphthylene	0.186	0.020	"	0.201		92.3	70-130			
Anthracene	0.184	0.020	"	0.201		91.6	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 B5J1737 - EPA 3580

LCS (B5J1737-BS1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

Benzo (a) anthracene	0.187	0.005	mg/kg wet	0.201		92.8	70-130			
Benzo (a) pyrene	0.173	0.020	"	0.201		85.7	70-130			
Benzo (b) fluoranthene	0.188	0.020	"	0.201		93.3	70-130			
Benzo (k) fluoranthene	0.170	0.020	"	0.201		84.3	70-130			
Chrysene	0.187	0.020	"	0.201		92.8	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.201		89.6	70-130			
Fluoranthene	0.190	0.020	"	0.201		94.6	70-130			
Fluorene	0.178	0.020	"	0.201		88.4	70-130			
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.201		87.9	70-130			
Naphthalene	0.198	0.002	"	0.201		98.5	70-130			
Pyrene	0.191	0.020	"	0.201		94.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.6	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike (B5J1737-MS1)

Source: E5J0349-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

1-Methylnaphthalene	0.258	0.002	mg/kg dry	0.237	0.002	108	70-130			
2-Methylnaphthalene	0.260	0.002	"	0.237	0.001	109	70-130			
Acenaphthene	0.242	0.024	"	0.237	0.002	101	70-130			
Acenaphthylene	0.241	0.024	"	0.237	0.001	101	70-130			
Anthracene	0.231	0.024	"	0.237	ND	97.3	70-130			
Benzo (a) anthracene	0.238	0.006	"	0.237	ND	100	70-130			
Benzo (a) pyrene	0.222	0.024	"	0.237	ND	93.8	70-130			
Benzo (b) fluoranthene	0.248	0.024	"	0.237	0.001	104	70-130			
Benzo (k) fluoranthene	0.226	0.024	"	0.237	ND	95.1	70-130			
Chrysene	0.236	0.024	"	0.237	ND	99.5	70-130			

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 Project: KMG - Briggs 1-11 WH-23738

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 B5J1737 - EPA 3580

Matrix Spike (B5J1737-MS1)		Source: E5J0349-01			Prepared: 10/17/2025 Analyzed: 10/17/2025					
Dibenz (a,h) anthracene	0.222	0.024	mg/kg dry	0.237	0.002	93.1	70-130			
Fluoranthene	0.232	0.024	"	0.237	0.0005	97.8	70-130			
Fluorene	0.226	0.024	"	0.237	0.002	94.5	70-130			
Indeno (1,2,3-cd) pyrene	0.226	0.024	"	0.237	0.001	94.7	70-130			
Naphthalene	0.251	0.002	"	0.237	ND	106	70-130			
Pyrene	0.238	0.024	"	0.237	ND	100	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.5	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

Matrix Spike Dup (B5J1737-MSD1)		Source: E5J0349-01			Prepared: 10/17/2025 Analyzed: 10/17/2025					
1-Methylnaphthalene	0.244	0.002	mg/kg dry	0.236	0.002	102	70-130	5.95	20	
2-Methylnaphthalene	0.249	0.002	"	0.236	0.001	105	70-130	4.60	20	
Acenaphthene	0.238	0.024	"	0.236	0.002	100	70-130	1.42	20	
Acenaphthylene	0.227	0.024	"	0.236	0.001	95.6	70-130	6.19	20	
Anthracene	0.225	0.024	"	0.236	ND	95.4	70-130	2.40	20	
Benzo (a) anthracene	0.230	0.006	"	0.236	ND	97.6	70-130	3.39	20	
Benzo (a) pyrene	0.210	0.024	"	0.236	ND	89.2	70-130	5.57	20	
Benzo (b) fluoranthene	0.230	0.024	"	0.236	0.001	97.3	70-130	7.42	20	
Benzo (k) fluoranthene	0.215	0.024	"	0.236	ND	91.2	70-130	4.74	20	
Chrysene	0.229	0.024	"	0.236	ND	97.2	70-130	2.84	20	
Dibenz (a,h) anthracene	0.222	0.024	"	0.236	0.002	93.5	70-130	0.0245	20	
Fluoranthene	0.225	0.024	"	0.236	0.0005	95.1	70-130	3.27	20	
Fluorene	0.221	0.024	"	0.236	0.002	92.8	70-130	2.26	20	
Indeno (1,2,3-cd) pyrene	0.221	0.024	"	0.236	0.001	93.3	70-130	1.97	20	
Naphthalene	0.241	0.002	"	0.236	ND	102	70-130	4.11	20	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171529
 Project: KMG - Briggs 1-11 WH-23738

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 B5J1737 - EPA 3580

Matrix Spike Dup (B5J1737-MSD1)

Source: E5J0349-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

Pyrene	0.228	0.024	mg/kg dry	0.236	ND	96.6	70-130	4.12	20	
Surrogate: Fluorene-d10	190		ug/kg	200		92.9	60-130			
Surrogate: Anthracene-d10	180		"	200		90.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	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 B5J1706 - EPA 3550B

Prepared: 10/17/2025 Analyzed: 10/17/2025

Blank (B5J1706-BLK1)

Diesel (C10-C28)	ND	25.2	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	101	"							U
Surrogate: o-Terphenyl	22		"	25.1		87.6	50-150			

LCS (B5J1706-BS1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

Diesel (C10-C28)	1040	50.1	mg/kg wet	1000		104	70-130			
Residual Range Organics (C28-C36)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	57		"	49.8		113	50-150			

Matrix Spike (B5J1706-MS1)

Source: E5J0349-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

Diesel (C10-C28)	1360	60.4	mg/kg dry	1210	62.9	107	70-130			
Residual Range Organics (C28-C36)	1350	242	"	1210	ND	112	70-130			
Surrogate: o-Terphenyl	63		"	60.1		105	50-150			

Matrix Spike Dup (B5J1706-MSD1)

Source: E5J0349-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

Diesel (C10-C28)	1290	60.0	mg/kg dry	1200	62.9	102	70-130	5.39	35	
Residual Range Organics (C28-C36)	1370	240	"	1200	ND	114	70-130	1.30	35	
Surrogate: o-Terphenyl	62		"	59.7		104	50-150			

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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 B5J2011 - EPA 3050B

Blank (B5J2011-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (B5J2011-BS1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	5.22	0.218	mg/kg wet	5.00		104	80-120			
Barium	539	61.5	"	500		108	80-120			
Cadmium	5.50	0.285	"	5.00		110	80-120			
Copper	54.1	34.5	"	50.0		108	80-120			
Lead	5.46	10.5	"	5.00		109	80-120			U
Nickel	5.43	19.5	"	5.00		109	80-120			U
Selenium	5.23	0.184	"	5.00		105	80-120			
Silver	5.63	0.600	"	5.00		113	80-120			
Zinc	52.9	278	"	50.0		106	80-120			U

Matrix Spike (B5J2011-MS1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	8.36	0.210	mg/kg dry	4.81	2.60	120	75-125			
Barium	859	59.2	"	481	192	139	75-125			QM-07
Cadmium	5.65	0.274	"	4.81	0.0933	116	75-125			
Copper	62.4	33.2	"	48.1	6.20	117	75-125			
Lead	11.9	10.1	"	4.81	6.10	121	75-125			

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 Project: KMG - Briggs 1-11 WH-23738

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 B5J2011 - EPA 3050B

Matrix Spike (B5J2011-MS1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Nickel	13.1	18.8	mg/kg dry	4.81	6.10	146	75-125			QM-07, U
Selenium	5.40	0.178	"	4.81	0.0986	110	75-125			
Silver	5.51	0.577	"	4.81	0.0161	114	75-125			
Zinc	84.6	267	"	48.1	24.9	124	75-125			U

Matrix Spike Dup (B5J2011-MSD1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	9.35	0.232	mg/kg dry	5.31	2.60	127	75-125	11.2	20	QM-07
Barium	901	65.4	"	531	192	134	75-125	4.79	20	QM-07
Cadmium	6.21	0.303	"	5.31	0.0933	115	75-125	9.38	20	
Copper	68.8	36.7	"	53.1	6.20	118	75-125	9.77	20	
Lead	12.6	11.2	"	5.31	6.10	122	75-125	5.05	20	
Nickel	14.5	20.7	"	5.31	6.10	157	75-125	9.63	20	QM-07, U
Selenium	5.85	0.196	"	5.31	0.0986	108	75-125	7.88	20	
Silver	6.12	0.638	"	5.31	0.0161	115	75-125	10.5	20	
Zinc	92.5	295	"	53.1	24.9	127	75-125	8.97	20	QM-07, U

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 Project: KMG - Briggs 1-11 WH-23738

Saturated Paste - 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 B5J2005 - Saturated Paste pH/EC

Blank (B5J2005-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5J2005-DUP1)

Source: E5J0440-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

pH	7.75		pH Units		7.20			7.36	25	
Specific Conductance (EC)	0.974	0.00500	mmhos/cm		1.28			27.0	25	QR-DUP

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 Project: KMG - Briggs 1-11 WH-23738

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 B5J1748 - EPA 5030 (soil)

Blank (B5J1748-BLK1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	0.118	0.200	"							J

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	97.3	70-130
Surrogate: Toluene-d8	0.13		"	0.125	104	70-130
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	107	70-130

LCS (B5J1748-BS1)

Prepared: 10/17/2025 Analyzed: 10/17/2025

1,2,4-Trimethylbenzene	0.114	0.002	mg/kg wet	0.100	114	70-130
1,3,5-Trimethylbenzene	0.113	0.002	"	0.100	113	70-130
Benzene	0.112	0.002	"	0.100	112	70-130
Ethylbenzene	0.113	0.002	"	0.100	113	70-130
Toluene	0.107	0.002	"	0.100	107	70-130
o-Xylene	0.111	0.002	"	0.100	111	70-130
m,p-Xylene	0.224	0.004	"	0.200	112	70-130

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102	70-130
Surrogate: Toluene-d8	0.13		"	0.125	101	70-130
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106	70-130

Matrix Spike (B5J1748-MS1)

Source: E5J0423-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

1,2,4-Trimethylbenzene	0.120	0.002	mg/kg dry	0.109	ND	110	70-130
1,3,5-Trimethylbenzene	0.121	0.002	"	0.109	ND	111	70-130
Benzene	0.124	0.002	"	0.109	ND	114	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 B5J1748 - EPA 5030 (soil)

Matrix Spike (B5J1748-MS1)

Source: E5J0423-01

Prepared: 10/17/2025 Analyzed: 10/17/2025

Ethylbenzene	0.123	0.002	mg/kg dry	0.109	ND	113	70-130			
Toluene	0.117	0.002	"	0.109	ND	107	70-130			
o-Xylene	0.122	0.002	"	0.109	ND	112	70-130			
m,p-Xylene	0.243	0.004	"	0.218	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.136		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.136		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.136		108	70-130			

Matrix Spike Dup (B5J1748-MSD1)

Source: E5J0423-01

Prepared: 10/17/2025 Analyzed: 10/18/2025

1,2,4-Trimethylbenzene	0.124	0.002	mg/kg dry	0.110	ND	112	70-130	3.14	20	
1,3,5-Trimethylbenzene	0.124	0.002	"	0.110	ND	112	70-130	2.53	20	
Benzene	0.127	0.002	"	0.110	ND	115	70-130	1.76	20	
Ethylbenzene	0.125	0.002	"	0.110	ND	113	70-130	1.77	20	
Toluene	0.118	0.002	"	0.110	ND	107	70-130	1.18	20	
o-Xylene	0.124	0.002	"	0.110	ND	113	70-130	1.68	20	
m,p-Xylene	0.248	0.004	"	0.221	ND	113	70-130	2.33	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.138		103	70-130			
Surrogate: Toluene-d8	0.14		"	0.138		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.138		108	70-130			

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Notes and Definitions

- U Sample is Non-Detect.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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