



Ensolum

September 08, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Burmester 7-34 WH

Project Number - 09A1417686

Attached are your analytical results for KMG - Burmester 7-34 WH received by Origins Laboratory August 25, 2025. This project is associated with Origins project number E5H0568-01.

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



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

Jeremy Espinoza
Project Number: 09A1417686
Project: KMG - Burmester 7-34 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	E5H0568-01	Water	August 25, 2025 15:00	08/25/2025 16:30
MW02	E5H0568-02	Water	August 25, 2025 14:17	08/25/2025 16:30
MW03	E5H0568-03	Water	August 25, 2025 14:50	08/25/2025 16:30
MW04	E5H0568-04	Water	August 25, 2025 14:40	08/25/2025 16:30
MW05	E5H0568-05	Water	August 25, 2025 14:30	08/25/2025 16:30

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 Project: KMG - Burmester 7-34 WH



ORIGINS WORK ORDER # **ESH0506**

Page 1 of 1

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						Full list		
1	M101	8/5/25	5:00	1	WAD	X		IS Acrylonitrile
2	M102		14:17					multiple field sampling
3	M103		14:50					for a large sample
4	M104		14:40					with in 2 weeks
5	M105		14:30					
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 8/5/25 Time: 1:30 Received By: NLM Date: 08/12/25 Time: 16:30

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Temp Received: 3.6°C Received On Ice? Yes No

Turnaround Time: 48 Hr 72 Hr 24 Hr DAY Standard

Client: Ensolium Project Manager: Jenmy Espinoza Key: _____

Address: _____ Project Name: Burmester 7-34 WH W: Water

Telephone Number: _____ Project Number: 09A1417686 G1=Groundwater

Email Address: CMG@ENM Invoice Billing Info: Ensolium W1=Waste Water

Collected By: [Signature] L=Liquid

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Jeremy Espinoza
 Project Number: 09A1417686
 Project: KMG - Burmester 7-34 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESH05066 Client: Ensolium
 Client Project ID: Burmester
 Checklist Completed by: SMC/ND Shipped Via: HD
 Date/time completed: 8/26/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/3.6 °C (Describe)
 Thermometer ID: T-007

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 Na ₂ O 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

08/27/15
 Date/Time Reviewed

Origins Laboratory

EHO

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Ensolium
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Jeremy Espinoza
 Project Number: 09A1417686
 Project: KMG - Burmester 7-34 WH

MW01

8/25/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0568-01 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5H2720	08/27/2025	08/28/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	115 %				70-130	"	"	"	
Surrogate: Toluene-d8	108 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	364		31.2	mg/L	125	B5H2808	08/28/2025	08/29/2025	
Sulfate	316		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1840		5.00	"	1	B5H2619	08/26/2025	08/28/2025	

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MW02

8/25/2025 2:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0568-02 (Water)
 Origins Laboratory**

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5H2720	08/27/2025	08/29/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %				70-130	"	"	"	
Surrogate: Toluene-d8	105 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	328		31.2	mg/L	125	B5H2808	08/28/2025	08/29/2025	
Sulfate	316		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1540		5.00	"	1	B5H2619	08/26/2025	08/28/2025	
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 Project: KMG - Burmester 7-34 WH

MW03

8/25/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0568-03 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5H2720	08/27/2025	08/29/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	109 %				70-130	"	"	"	
Surrogate: Toluene-d8	108 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	347		31.2	mg/L	125	B5H2808	08/28/2025	08/29/2025	
Sulfate	414		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1750		5.00	"	1	B5H2619	08/26/2025	08/28/2025	

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MW04

8/25/2025 2:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0568-04 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5H2720	08/27/2025	08/29/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	110 %				70-130	"	"	"	
Surrogate: Toluene-d8	97.6 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	478		31.2	mg/L	125	B5H2808	08/28/2025	08/29/2025	
Sulfate	640		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2520		5.00	"	1	B5H2619	08/26/2025	08/28/2025	

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MW05

8/25/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0568-05 (Water)
 Origins Laboratory**

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5H2720	08/27/2025	08/29/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %				70-130	"	"	"	
Surrogate: Toluene-d8	108 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	498		31.2	mg/L	125	B5H2808	08/28/2025	08/29/2025	
Sulfate	675		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2670		5.00	"	1	B5H2619	08/26/2025	08/28/2025	
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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
Batch B5H2619 - NO PREP										
Blank (B5H2619-BLK1)										
Prepared: 08/26/2025 Analyzed: 08/28/2025										
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B5H2619-BS1)										
Prepared: 08/26/2025 Analyzed: 08/28/2025										
Total Dissolved Solids	982	5.00	mg/L	1030		95.3	90-110			
Duplicate (B5H2619-DUP1)										
Source: E5H0561-07 Prepared: 08/26/2025 Analyzed: 08/28/2025										
Total Dissolved Solids	980	5.00	mg/L		990			1.02	10	
Batch B5H2808 - Filter .45um non acidified										
Blank (B5H2808-BLK1)										
Prepared: 08/28/2025 Analyzed: 08/28/2025										
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5H2808-BS1)										
Prepared: 08/28/2025 Analyzed: 08/29/2025										
Chloride	3.90	0.250	mg/L	4.00		97.6	90-110			
Sulfate	3.88	0.250	"	4.00		97.0	90-110			
Matrix Spike (B5H2808-MS1)										
Source: E5H0568-01 Prepared: 08/28/2025 Analyzed: 08/29/2025										
Chloride	846		mg/L	500	364	96.4	90-110			
Sulfate	784		"	500	316	93.7	90-110			
Matrix Spike Dup (B5H2808-MSD1)										
Source: E5H0568-01 Prepared: 08/28/2025 Analyzed: 08/29/2025										
Chloride	807		mg/L	500	364	88.7	90-110	4.66	5	QM-07
Sulfate	750		"	500	316	86.8	90-110	4.46	5	QM-07

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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 B5H2720 - EPA 5030B (Water)

Prepared: 08/27/2025 Analyzed: 08/28/2025

Blank (B5H2720-BLK1)

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U

Surrogate: 1,2-Dichloroethane-d4	71		"	62.5	114	70-130				
Surrogate: Toluene-d8	66		"	62.5	106	70-130				
Surrogate: 4-Bromofluorobenzene	69		"	62.5	110	70-130				

LCS (B5H2720-BS1)

Prepared: 08/27/2025 Analyzed: 08/28/2025

1,2,4-Trimethylbenzene	51.3	2.00	ug/L	50.0	103	70-130				
1,3,5-Trimethylbenzene	50.6	2.00	"	50.0	101	70-130				
Benzene	47.5	1.00	"	50.0	95.0	70-130				
Ethylbenzene	50.7	1.00	"	50.0	101	70-130				
m,p-Xylene	102	2.00	"	100	102	70-130				
Naphthalene	55.4	2.00	"	50.0	111	70-130				
o-Xylene	51.4	1.00	"	50.0	103	70-130				
Toluene	49.4	1.00	"	50.0	98.9	70-130				

Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107	70-130				
Surrogate: Toluene-d8	67		"	62.5	107	70-130				
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100	70-130				

Matrix Spike (B5H2720-MS1)

Source: E5H0568-01

Prepared: 08/27/2025 Analyzed: 08/28/2025

1,2,4-Trimethylbenzene	43.9	2.00	ug/L	50.0	ND	87.9	70-130			
1,3,5-Trimethylbenzene	44.9	2.00	"	50.0	ND	89.8	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 B5H2720 - EPA 5030B (Water)

Matrix Spike (B5H2720-MS1)

Source: E5H0568-01

Prepared: 08/27/2025 Analyzed: 08/28/2025

Benzene	44.3	1.00	ug/L	50.0	ND	88.6	70-130			
Ethylbenzene	44.5	1.00	"	50.0	ND	89.0	70-130			
m,p-Xylene	88.0	2.00	"	100	ND	88.0	70-130			
Naphthalene	47.6	2.00	"	50.0	ND	95.1	70-130			
o-Xylene	46.0	1.00	"	50.0	ND	92.0	70-130			
Toluene	42.0	1.00	"	50.0	ND	84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Matrix Spike Dup (B5H2720-MSD1)

Source: E5H0568-01

Prepared: 08/27/2025 Analyzed: 08/28/2025

1,2,4-Trimethylbenzene	51.1	2.00	ug/L	50.0	ND	102	70-130	15.1	20	
1,3,5-Trimethylbenzene	50.9	2.00	"	50.0	ND	102	70-130	12.6	20	
Benzene	46.6	1.00	"	50.0	ND	93.3	70-130	5.19	20	
Ethylbenzene	49.2	1.00	"	50.0	ND	98.3	70-130	9.97	20	
m,p-Xylene	95.9	2.00	"	100	ND	95.9	70-130	8.65	20	
Naphthalene	52.1	2.00	"	50.0	ND	104	70-130	9.03	20	
o-Xylene	48.7	1.00	"	50.0	ND	97.5	70-130	5.81	20	
Toluene	44.6	1.00	"	50.0	ND	89.3	70-130	6.14	20	
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Project Number: 09A1417686
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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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