

July 03, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32  
OSA Facility**

**Project Number - 09A162050**

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. June 21, 2024. This project is associated with Origins project number Y406655-01.

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, Inc.  
303.433.1322  
o-squad@oelabinc.com



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A162050

Project: KMG - Hunter, Hunter 9&16-32 OSA  
Facility

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y406655-01	Water	June 21, 2024 12:25	06/21/2024 15:56
MW02	Y406655-02	Water	June 21, 2024 12:30	06/21/2024 15:56
MW03	Y406655-03	Water	June 21, 2024 13:05	06/21/2024 15:56
MW04	Y406655-04	Water	June 21, 2024 13:10	06/21/2024 15:56
MW05	Y406655-05	Water	June 21, 2024 13:15	06/21/2024 15:56
MW06	Y406655-06	Water	June 21, 2024 13:25	06/21/2024 15:56
MW07	Y406655-07	Water	June 21, 2024 12:15	06/21/2024 15:56
MW08	Y406655-08	Water	June 21, 2024 12:05	06/21/2024 15:56
MW10	Y406655-09	Water	June 21, 2024 12:40	06/21/2024 15:56
MW11	Y406655-10	Water	June 21, 2024 12:50	06/21/2024 15:56

Origins Laboratory, Inc.



*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.*

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A162050

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

# ORIGINS

LABORATORY LLC

Client:

Address:

Ensolum

Project Manager: Jeremy Espinoza

Key:

Project Name:

KMG Hunter 9&16-32 OSA Facility

W=Water

Project Number:

09A162050

GW=Groundwater

Collected By:

Andrea Carras

SW=Surface Water

Telephone Number: (970) 590-2134

Email Address:

Ensolum Team

Invoice/Billing Info:

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

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments			
							1	2	3	4	5	6	7	8	9	10				
1	MW01	6/21/24	12:25	4	GW	UNP	X													
2	MW02		12:30																	
3	MW03		13:05																	
4	MW04		13:10																	
5	MW05		13:15																	
6	MW06		13:25																	
7	MW07		12:15																	
8	MW08		12:05																	
9	MW09		12:10																	
10	MW10		12:50																	
11	MW11																			

Relinquished By: [Signature] Date: 6/21/24 Time: 1556 Received By: [Signature] Date: 6/21/24 Time: 1556

Temp Received: 8.0 Received On Ice? ☒ Yes ☐ No

Turnaround Time ☐ SAME DAY ☐ 24 Hr ☒ Standard ☐ 48 Hr ☐ 72 Hr

4406655

Page 1 of 2

Origins Laboratory, Inc.

*Jen Pellegrini*

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Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A162050

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

**Sample Receipt Checklist**

Origins Work Order: V406055 Client: Ensolum  
Client Project ID: Hunter, Hunter

Checklist Completed by: UT/SHD Shipped Via: TLD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 6/24/24 Airbill #: N/A

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

Cooler Number/Temperature: 1 50 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>One vial for mwal received with large headspace.</u>				

<sup>(1)</sup> 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) AS

Date/Time Reviewed 6/25/24 0949

Origins Laboratory, Inc.

*Jen Pellegrini*

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A162050

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

MW01

6/21/2024 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y406655-01 (Water)

**Anions by IC 300.0**

Chloride	54.6	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/26/2024	
Sulfate	551	31.2	"	"	"	Lab	"	"	

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.7 %	70-130			"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1380	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW02

6/21/2024 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-02 (Water)

### Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	U
Sulfate	483	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.3 %	70-130	"	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1070	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW03

6/21/2024 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-03 (Water)

### Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	U
Sulfate	527	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.8 %	70-130	"	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1050	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Jeremy Espinoza

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MW04

6/21/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y406655-04 (Water)

Anions by IC 300.0

Chloride	34.9	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	
Sulfate	525	31.2	"	"	"	Lab	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	84.2 %	70-130			"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1150	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Jen Pellegrini, Project Manager

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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW05

6/21/2024 1:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-05 (Water)

### Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	U
Sulfate	482	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130	"	"	"
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.9 %	70-130	"	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1070	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW06

6/21/2024 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-06 (Water)

### Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	U
Sulfate	438	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/24/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	82.4 %	70-130	"	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	958	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW07

6/21/2024 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-07 (Water)

### Anions by IC 300.0

Chloride	ND	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	U
Sulfate	470	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/25/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.7 %	70-130	"	"	"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1000	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW08

6/21/2024 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-08 (Water)

### Anions by IC 300.0

Chloride	39.1	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	
Sulfate	553	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/26/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1150	5.00	mg/L	1	B4F2426	KRM	06/24/2024	06/25/2024	
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Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW10

6/21/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-09 (Water)

### Anions by IC 300.0

Chloride	39.4	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	
Sulfate	509	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/26/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1200	5.00	mg/L	1	B4F2522	KRM	06/25/2024	06/26/2024	
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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## MW11

6/21/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406655-10 (Water)

### Anions by IC 300.0

Chloride	35.4	31.2	mg/L	125	B4F2424	Lab	06/24/2024	06/27/2024	
Sulfate	538	31.2	"	"	"	Lab	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2159	JSM	06/21/2024	06/26/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1210	5.00	mg/L	1	B4F2522	KRM	06/25/2024	06/26/2024	
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Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA  
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F2159 - EPA 5030B (Water)</b>										
<b>Blank (B4F2159-BLK1)</b>					Prepared: 06/21/2024 Analyzed: 06/24/2024					
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	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.2	70-130			

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Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A162050

Project: KMG - Hunter, Hunter 9&16-32 OSA  
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2159 - EPA 5030B (Water)**

**LCS (B4F2159-BS1)**

Prepared: 06/21/2024 Analyzed: 06/24/2024

1,2,4-Trimethylbenzene	50.8	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	53.9	2.00	"	50.0		108	70-130			
Benzene	51.5	1.00	"	50.0		103	70-130			
Ethylbenzene	52.5	1.00	"	50.0		105	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
Naphthalene	44.6	2.00	"	50.0		89.2	70-130			
o-Xylene	50.7	1.00	"	50.0		101	70-130			
Toluene	52.1	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F2159 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B4F2159-MS1)</b>		<b>Source: Y406650-02</b>			Prepared: 06/21/2024 Analyzed: 06/24/2024					
1,2,4-Trimethylbenzene	50.2	2.00	ug/L	50.0	ND	100	70-130			
1,3,5-Trimethylbenzene	41.9	2.00	"	50.0	ND	83.8	70-130			
Benzene	67.7	1.00	"	50.0	ND	135	70-130			QM-07
Ethylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
Naphthalene	48.8	2.00	"	50.0	ND	97.6	70-130			
o-Xylene	43.9	1.00	"	50.0	ND	87.9	70-130			
Toluene	44.0	1.00	"	50.0	ND	88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5		117	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F2159 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B4F2159-MSD1)</b>			<b>Source: Y406650-02</b>		Prepared: 06/21/2024 Analyzed: 06/24/2024					
1,2,4-Trimethylbenzene	49.5	2.00	ug/L	50.0	ND	99.0	70-130	1.38	20	
1,3,5-Trimethylbenzene	40.7	2.00	"	50.0	ND	81.3	70-130	2.98	20	
Benzene	72.6	1.00	"	50.0	ND	145	70-130	6.94	20	QM-07
Ethylbenzene	50.8	1.00	"	50.0	ND	102	70-130	2.51	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	0.922	20	
Naphthalene	50.1	2.00	"	50.0	ND	100	70-130	2.61	20	
o-Xylene	44.8	1.00	"	50.0	ND	89.6	70-130	1.92	20	
Toluene	47.1	1.00	"	50.0	ND	94.2	70-130	6.85	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		113	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2424 - Filter .45um non acidified**

**Blank (B4F2424-BLK1)**

Prepared: 06/24/2024 Analyzed: 06/26/2024

Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U

**LCS (B4F2424-BS1)**

Prepared: 06/24/2024 Analyzed: 06/26/2024

Chloride	4.02	0.250	mg/L	4.00		101	90-110			
Sulfate	4.08	0.250	"	4.00		102	90-110			

**Matrix Spike (B4F2424-MS1)**

Source: Y406628-11

Prepared: 06/24/2024 Analyzed: 06/26/2024

Chloride	795		mg/L	500	309	97.1	90-110			
Sulfate	924		"	500	428	99.0	90-110			

**Matrix Spike Dup (B4F2424-MSD1)**

Source: Y406628-11

Prepared: 06/24/2024 Analyzed: 06/26/2024

Chloride	796		mg/L	500	309	97.4	90-110	0.173	5	
Sulfate	926		"	500	428	99.5	90-110	0.270	5	

**Batch B4F2426 - NO PREP**

**Blank (B4F2426-BLK1)**

Prepared: 06/24/2024 Analyzed: 06/25/2024

Total Dissolved Solids	ND	5.00	mg/L							U
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**LCS (B4F2426-BS1)**

Prepared: 06/24/2024 Analyzed: 06/25/2024

Total Dissolved Solids	1010	5.00	mg/L	1040		96.9	90-110			
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**Duplicate (B4F2426-DUP1)**

Source: Y406609-01

Prepared: 06/24/2024 Analyzed: 06/25/2024

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A162050  
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F2426 - NO PREP</b>										
Total Dissolved Solids	1030	5.00	mg/L		1080			4.54	10	
<b>Batch B4F2522 - NO PREP</b>										
<b>Blank (B4F2522-BLK1)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Total Dissolved Solids	ND	5.00	mg/L							U
<b>LCS (B4F2522-BS1)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Total Dissolved Solids	1030	5.00	mg/L	1040		99.2	90-110			
<b>Duplicate (B4F2522-DUP1)</b>		<b>Source: Y406655-09</b>			Prepared: 06/25/2024 Analyzed: 06/26/2024					
Total Dissolved Solids	1190	5.00	mg/L		1200			1.17	10	

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Ensolum

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Jeremy Espinoza

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Facility

### 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.

Origins Laboratory, Inc.



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