

August 15, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Boyle St 8-16 Wellhead

Project Number - 09A1417746

Attached are your analytical results for KMG - Boyle St 8-16 Wellhead received by Origins Laboratory, Inc. July 15, 2024. This project is associated with Origins project number Y407371-01.

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: 09A1417746
Project: KMG - Boyle St 8-16 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4'	Y407371-01	Soil	July 15, 2024 14:50	07/15/2024 16:45
GW-FL01@4'	Y407371-02	Water	July 15, 2024 14:55	07/15/2024 16:45

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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ORIGINS

LABORATORY INC

ORIGINAL WORK ORDER #
4407374

Page 1 of 1

Client: Ensolum
 Address: _____

Project Manager: Jeremy Espinoza

Key:

Telephone Number: _____

Project Name: Boyle St 8-16 Wellhead

W= Water

Email Address: KMG Team

Project Number: 09A1417746

GW=Groundwater

Invoice/Billing Info: TH, LC

Collected By: TH, LC

SW=Surface Water

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

Received By: Oxy/En/119


WW=Waste Water

L=Liquid

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
								915 Fullist	BTEX	Naph	TMS	
1	FLO @ 4'	7/15/2014	14:50	3	5	UNP	X					
2	GW-FLO @ 4'	7/15/2014	14:55	4	GW	UNP	X	X	X			Hard and firm / for analysis
3												
4												
5												
6												
7												
8												
9												
10												

Relinquished By: LEPellegrini Date: 07/15/2014 Time: 10:45
 Received By: DDA Date: 7/15/24 Time: 10:45
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received- 15 Received On Ice? Yes No
 Turnaround Time SAME DAY 24 Hr 48 Hr 72 Hr
 Standard

Origins Laboratory, Inc.

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 Project: KMG - Boyle St 8-16 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y407371 Client: Ensolum
 Client Project ID: Boyle
 Checklist Completed by: EHO Shipped Via: HO
 Date/time completed: 7/15/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water _____ Other: _____
 Cooler Number/Temperature: 115 °c _____ °c _____ °c (Describe)
 Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
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) EHO Date/Time Reviewed 7/15/24

Origins Laboratory, Inc.



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Jeremy Espinoza
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 Project: KMG - Boyle St 8-16 Wellhead

FL01@4'
7/15/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407371-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.444		0.0999	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1539	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1540	07/15/2024	07/15/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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FL01@4'

7/15/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407371-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %		70-130			B4G15 40	07/15/2024	07/15/2024	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.25	0.499	meq/L	10	[CALC]		07/16/2024	07/17/2024	
Magnesium	1.32	0.823	"	"	"		"	"	
Sodium	3.68	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1537		07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

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FL01@4'

7/15/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407371-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	108 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.46			pH Units	1	B4G1613	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	2.76		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.776		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

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FL01@4'

7/15/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407371-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.67	0.255	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	78.1	8.79	"	"	"	"	"	
Cadmium	0.139	0.0879	"	"	"	"	"	
Copper	ND	8.79	"	"	"	"	"	Ua
Lead	7.48	0.879	"	"	"	"	"	
Nickel	7.93	0.879	"	"	"	"	"	
Selenium	ND	0.228	"	"	"	"	"	Ua
Silver	ND	0.0879	"	"	"	"	"	Ua
Zinc	36.7	32.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.377	mg/kg dry	1	2653025	08/14/2024	08/14/2024	U
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GW-FL01@4'

7/15/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407371-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4G1240	07/15/2024	07/15/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	90.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130			"	"	"	

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 Project: KMG - Boyle St 8-16 Wellhead

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 B4G1240 - EPA 5030B (Water)

Blank (B4G1240-BLK1)

Prepared: 07/12/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5	112		70-130			
Surrogate: Toluene-d8	58		"	62.5	92.3		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.1		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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Batch B4G1240 - EPA 5030B (Water)

LCS (B4G1240-BS1)

Prepared: 07/12/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	48.7	2.00	ug/L	50.0		97.3	70-130			
1,3,5-Trimethylbenzene	49.6	2.00	"	50.0		99.2	70-130			
Benzene	49.4	1.00	"	50.0		98.7	70-130			
Ethylbenzene	51.9	1.00	"	50.0		104	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	42.3	2.00	"	50.0		84.5	70-130			
o-Xylene	51.7	1.00	"	50.0		103	70-130			
Toluene	47.9	1.00	"	50.0		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.0	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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Batch B4G1240 - EPA 5030B (Water)

Matrix Spike (B4G1240-MS1)	Source: Y407313-01			Prepared: 07/12/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	52.7	2.00	"	50.0	ND	105	70-130			
Benzene	48.9	1.00	"	50.0	ND	97.8	70-130			
Ethylbenzene	53.8	1.00	"	50.0	ND	108	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	41.9	2.00	"	50.0	ND	83.8	70-130			
o-Xylene	52.5	1.00	"	50.0	ND	105	70-130			
Toluene	47.8	1.00	"	50.0	ND	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.8	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1240 - EPA 5030B (Water)

Matrix Spike Dup (B4G1240-MSD1)	Source: Y407313-01			Prepared: 07/12/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	48.9	2.00	ug/L	50.0	ND	97.9	70-130	2.98	20	
1,3,5-Trimethylbenzene	50.2	2.00	"	50.0	ND	100	70-130	5.01	20	
Benzene	48.4	1.00	"	50.0	ND	96.8	70-130	1.01	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	70-130	2.89	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	0.995	20	
Naphthalene	46.8	2.00	"	50.0	ND	93.6	70-130	11.0	20	
o-Xylene	52.3	1.00	"	50.0	ND	105	70-130	0.382	20	
Toluene	46.5	1.00	"	50.0	ND	92.9	70-130	2.95	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.7	70-130			

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 Project: KMG - Boyle St 8-16 Wellhead

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 B4G1539 - EPA 3550B

Blank (B4G1539-BLK1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B4G1539 - EPA 3550B

LCS (B4G1539-BS1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	876	50.0	mg/kg	1000		87.6	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000		93.3	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B4G1539 - EPA 3550B

Matrix Spike (B4G1539-MS1)	Source: Y407371-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
Diesel (C10-C28)	895	50.0	mg/kg	1000	ND	89.5	70-130			
Residual Range Organics (C28-C40)	941	200	"	1000	ND	94.1	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

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

Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - 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 B4G1539 - EPA 3550B

Matrix Spike Dup (B4G1539-MSD1)	Source: Y407371-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
Diesel (C10-C28)	883	50.0	mg/kg	1000	ND	88.3	70-130	1.25	35	
Residual Range Organics (C28-C40)	960	200	"	1000	ND	96.0	70-130	1.93	35	
<i>Surrogate: o-Terphenyl</i>	47		"	49.8		93.8	50-150			

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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - 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 B4G1540 - EPA 5030 (soil)

Blank (B4G1540-BLK1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	108		70-130			

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 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

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 B4G1540 - EPA 5030 (soil)

LCS (B4G1540-BS1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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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Batch B4G1540 - EPA 5030 (soil)

Matrix Spike (B4G1540-MS1)	Source: Y407371-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130			
Ethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Naphthalene	0.0994	0.00380	"	0.100	ND	99.4	70-130			
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
o-Xylene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	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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Batch B4G1540 - EPA 5030 (soil)

Matrix Spike Dup (B4G1540-MSD1)	Source: Y407371-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	0.609	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.555	20	
Benzene	0.0986	0.00200	"	0.100	ND	98.6	70-130	1.19	20	
Ethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	0.0821	20	
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130	0.642	20	
Toluene	0.0893	0.00200	"	0.100	ND	89.3	70-130	3.15	20	
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130	0.530	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.6	70-130	0.650	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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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Metals by EPA 6000/7000 Series Methods - 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 B4G1538 - EPA 3050B

Blank (B4G1538-BLK1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

LCS (B4G1538-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	4.69	0.290	mg/kg	5.00		93.8	80-120			
Barium	489	10.0	"	500		97.9	80-120			
Cadmium	4.89	0.100	"	5.00		97.8	80-120			
Copper	48.4	10.0	"	50.0		96.7	80-120			
Lead	4.66	1.00	"	5.00		93.2	80-120			
Nickel	4.64	1.00	"	5.00		92.8	80-120			
Selenium	4.64	0.260	"	5.00		92.7	80-120			
Silver	5.06	0.100	"	5.00		101	80-120			
Zinc	47.2	37.0	"	50.0		94.3	80-120			

Matrix Spike (B4G1538-MS1)

Source: Y407364-07

Prepared: 07/15/2024 Analyzed: 07/16/2024

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 Project: KMG - Boyle St 8-16 Wellhead

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1538 - EPA 3050B

Matrix Spike (B4G1538-MS1)		Source: Y407364-07			Prepared: 07/15/2024 Analyzed: 07/16/2024					
Arsenic	6.64	0.280	mg/kg	4.83	1.27	111	75-125			
Barium	557	9.67	"	483	30.2	109	75-125			
Cadmium	5.19	0.0967	"	4.83	0.0304	107	75-125			
Copper	57.4	9.67	"	48.3	2.41	114	75-125			
Lead	8.85	0.967	"	4.83	3.16	118	75-125			
Nickel	8.01	0.967	"	4.83	2.17	121	75-125			
Selenium	4.76	0.251	"	4.83	0.0390	97.6	75-125			
Silver	5.49	0.0967	"	4.83	ND	114	75-125			
Zinc	67.8	35.8	"	48.3	13.4	113	75-125			

Matrix Spike Dup (B4G1538-MSD1)		Source: Y407364-07			Prepared: 07/15/2024 Analyzed: 07/16/2024					
Arsenic	7.23	0.284	mg/kg	4.90	1.27	122	75-125	8.38	20	
Barium	588	9.80	"	490	30.2	114	75-125	5.34	20	
Cadmium	5.58	0.0980	"	4.90	0.0304	113	75-125	7.33	20	
Copper	63.3	9.80	"	49.0	2.41	124	75-125	9.75	20	
Lead	9.22	0.980	"	4.90	3.16	124	75-125	4.15	20	
Nickel	9.19	0.980	"	4.90	2.17	143	75-125	13.7	20	QM-07
Selenium	5.10	0.255	"	4.90	ND	104	75-125	6.91	20	
Silver	5.96	0.0980	"	4.90	ND	122	75-125	8.10	20	
Zinc	76.1	36.3	"	49.0	13.4	128	75-125	11.6	20	QM-07

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 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1537 - EPA 3580

Blank (B4G1537-BLK1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

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

Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

LCS (B4G1537-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		94.9	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.1	70-130			
Anthracene	0.190	0.020	"	0.200		95.0	70-130			

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 Project: KMG - Boyle St 8-16 Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1537 - EPA 3580

LCS (B4G1537-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

Benzo (a) anthracene	0.173	0.005	mg/kg	0.200		86.5	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		87.8	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.6	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.3	70-130			
Fluorene	0.203	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		109	70-130			
Naphthalene	0.194	0.002	"	0.200		97.1	70-130			
Phenanthrene	0.209	0.020	"	0.200		104	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

Matrix Spike (B4G1537-MS1)

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.002	98.6	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	0.003	98.6	70-130			
Acenaphthene	0.194	0.020	"	0.200	0.009	92.6	70-130			
Anthracene	0.203	0.020	"	0.200	0.035	84.0	70-130			
Benzo (a) anthracene	0.273	0.005	"	0.200	1.17	NR	70-130			QM-07
Benzo (a) pyrene	0.354	0.020	"	0.200	1.86	NR	70-130			QM-07
Benzo (b) fluoranthene	0.415	0.020	"	0.200	1.03	NR	70-130			QM-07
Benzo (g,h,i) perylene	0.345	0.020	"	0.200	1.51	NR	70-130			QM-07

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1537 - EPA 3580

Matrix Spike (B4G1537-MS1)		Source: Y407363-02			Prepared: 07/15/2024 Analyzed: 07/16/2024					
Benzo (k) fluoranthene	0.384	0.020	mg/kg	0.200	0.873	NR	70-130			QM-07
Chrysene	0.306	0.020	"	0.200	1.07	NR	70-130			QM-07
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.337	NR	70-130			QM-07
Fluoranthene	0.351	0.020	"	0.200	0.898	NR	70-130			QM-07
Fluorene	0.203	0.020	"	0.200	0.008	97.5	70-130			
Indeno (1,2,3-cd) pyrene	0.358	0.020	"	0.200	1.10	NR	70-130			QM-07
Naphthalene	0.198	0.002	"	0.200	0.002	98.4	70-130			
Phenanthrene	0.228	0.020	"	0.200	0.061	83.4	70-130			
Pyrene	0.545	0.020	"	0.200	1.88	NR	70-130			QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Matrix Spike Dup (B4G1537-MSD1)		Source: Y407363-02			Prepared: 07/15/2024 Analyzed: 07/16/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.002	95.5	70-130	3.16	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.003	96.3	70-130	2.31	20	
Acenaphthene	0.189	0.020	"	0.200	0.009	89.7	70-130	2.98	20	
Anthracene	0.209	0.020	"	0.200	0.035	87.2	70-130	3.07	20	
Benzo (a) anthracene	0.314	0.005	"	0.200	1.17	NR	70-130	14.1	20	QM-07
Benzo (a) pyrene	0.312	0.020	"	0.200	1.86	NR	70-130	12.6	20	QM-07
Benzo (b) fluoranthene	0.382	0.020	"	0.200	1.03	NR	70-130	8.26	20	QM-07
Benzo (g,h,i) perylene	0.325	0.020	"	0.200	1.51	NR	70-130	6.13	20	QM-07
Benzo (k) fluoranthene	0.349	0.020	"	0.200	0.873	NR	70-130	9.57	20	QM-07
Chrysene	0.329	0.020	"	0.200	1.07	NR	70-130	7.33	20	QM-07
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.337	NR	70-130	6.52	20	QM-07
Fluoranthene	0.416	0.020	"	0.200	0.898	NR	70-130	17.0	20	QM-07

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1537 - EPA 3580

Matrix Spike Dup (B4G1537-MSD1)	Source: Y407363-02			Prepared: 07/15/2024 Analyzed: 07/16/2024						
Fluorene	0.187	0.020	mg/kg	0.200	0.008	89.6	70-130	8.06	20	
Indeno (1,2,3-cd) pyrene	0.292	0.020	"	0.200	1.10	NR	70-130	20.4	20	QM-07, QR-02
Naphthalene	0.192	0.002	"	0.200	0.002	95.2	70-130	3.26	20	
Phenanthrene	0.236	0.020	"	0.200	0.061	87.6	70-130	3.58	20	
Pyrene	0.468	0.020	"	0.200	1.88	NR	70-130	15.3	20	QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

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 B4G1606 - DTPA Sorbitol Preparation

Blank (B4G1606-BLK1)

Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron	ND	0.100	mg/L							Ua
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Duplicate (B4G1606-DUP1)

Source: Y407338-01

Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron	0.427	0.100	mg/L		0.582			30.6	50	
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Batch B4G1609 - Saturated Paste Metals

Blank (B4G1609-BLK1)

Prepared: 07/16/2024 Analyzed: 07/17/2024

Calcium PPM	ND	10.0	mg/L							Ua
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SAR	ND	0.0100	SAR							Ua
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Magnesium PPM	ND	10.0	mg/L							Ua
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Sodium PPM	ND	10.0	"							Ua
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Duplicate (B4G1609-DUP1)

Source: Y407362-04

Prepared: 07/16/2024 Analyzed: 07/17/2024

SAR	ND	0.0100	SAR		2.11				200	Ua
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Calcium PPM	19.9	10.0	mg/L		21.3			6.94	50	
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Magnesium PPM	3.86	10.0	"		3.82			1.04	50	Ua
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Sodium PPM	38.2	10.0	"		40.3			5.17	50	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

Saturated Paste - 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 B4G1613 - Saturated Paste pH/EC

Blank (B4G1613-BLK1)

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4G1613-DUP1)

Source: Y407362-04

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC)	0.327	0.00500	mmhos/cm		0.341		4.13		25	
pH	8.40		pH Units		8.43		0.357		25	

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

Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2653025 - SW846 3060A										
BLANK (1205814702-BLK)					Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	ND	0.304	mg/kg				-			U
LCS (1205814703-BKS)					Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	3.08	0.311	mg/kg	3.11		99	80-120			
DUP (1205814704 D)					Source: 676046001 Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	ND	0.332	mg/kg dry		<0.133		0-50	N/A	50	U
MS (1205814705 S)					Source: 676046001 Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	2.30	0.332	mg/kg dry	3.32	<0.133	68	75-125			
DUP (1205814706 D)					Source: 676046002 Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	ND	0.377	mg/kg dry		<0.151		0-50	N/A	50	U
MS (1205814707 S)					Source: 676046002 Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	3.32	0.377	mg/kg dry	3.77	<0.151	87.7	75-125			
ILCS (1205814708-ILCS)					Prepared: 08/14/2024 Analyzed: 08/14/2024					
Hexavalent Chromium	6.75	0.334	mg/kg	6.82		98.9	80-120			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417746
Project: KMG - Boyle St 8-16 Wellhead

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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