

August 07, 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 10, 2024. This project is associated with Origins project number Y407236-01.

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
B01@6'	Y407236-01	Soil	July 10, 2024 9:00	07/10/2024 16:44
B01@6'-V	Y407236-02	Soil	July 10, 2024 9:05	07/10/2024 16:44
WH01-RISER@3'	Y407236-03	Soil	July 10, 2024 9:10	07/10/2024 16:44
WH01-RISER@3'-V	Y407236-04	Soil	July 10, 2024 9:15	07/10/2024 16:44
NATIVE-BG01@3'	Y407236-05	Soil	July 10, 2024 9:20	07/10/2024 16:44
NATIVE-BG01@6'	Y407236-06	Soil	July 10, 2024 9:22	07/10/2024 16:44
NATIVE-BG02@3'	Y407236-07	Soil	July 10, 2024 9:23	07/10/2024 16:44
NATIVE-BG02@6'	Y407236-08	Soil	July 10, 2024 9:25	07/10/2024 16:44
NATIVE-BG03@3'	Y407236-09	Soil	July 10, 2024 9:27	07/10/2024 16:44
NATIVE-BG03@6'	Y407236-10	Soil	July 10, 2024 9:28	07/10/2024 16:44
NATIVE-BG04@3'	Y407236-11	Soil	July 10, 2024 9:30	07/10/2024 16:44
NATIVE-BG04@6'	Y407236-12	Soil	July 10, 2024 9:35	07/10/2024 16:44
NATIVE-BG05@3'	Y407236-13	Soil	July 10, 2024 9:37	07/10/2024 16:44
NATIVE-BG05@6'	Y407236-14	Soil	July 10, 2024 9:40	07/10/2024 16:44

Origins Laboratory, Inc.



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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
NATIVE-BG06@3'	Y407236-15	Soil	July 10, 2024 9:41	07/10/2024 16:44
NATIVE-BG06@6'	Y407236-16	Soil	July 10, 2024 9:43	07/10/2024 16:44

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

Page 1 of 2

ORIGINS WORK ORDER #
 4407230

ORIGINS INC
 LABORATORY

Client: Ensolum
 Address: _____
 Project Manager: J. Espinoza
 Project Name: Boyle St 8-16 Wellhead
 Project Number: 09A1417746
 Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
 L=Liquid
 Telephone Number: _____
 Email Address: KMG Team
 Invoice/Billing info: INDIA
 Collected By: HK


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	BOLEG1	7/10/24	0900	3	S	unp	X		Naph-1-Methylnaphth
2	BOLEG1-V		0905	3			X		Se added to Boyle-V
3	WHD-RISER31		0910	3			X		per Jeremy's email on
4	WHD-RISER3-V		0915	3			X		7/11 JD
5	NATIVE-BG01C31		0920	2			X		
6	NATIVE-BG01C1		0922						
7	NATIVE-BG02C31		0923						
8	NATIVE-BG02C1		0925						
9	NATIVE-BG03C31		0927						
10	NATIVE-BG03C1		0928						

Relinquished By: _____ Date: 7/10/24 Time: 1644
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: 7/10/24 Time: 1644
 Received By: _____ Date: _____ Time: _____
 Turnaround Time: SAME DAY 24 HR 48 HR 72 HR
 Standard
 Temp Received: 0.4 Received On Ice? Yes No

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407236 Client: Ensolum
 Client Project ID: Boyle St
 Checklist Completed by: EHO Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 7/10/12 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1104 °C / _____ °C / _____ °C / _____ °C
 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.

EHO Reviewed by (Project Manager) 7/10/12 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

B01@6'

7/10/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.492		0.0992	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1015	07/10/2024	07/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1028	07/10/2024	07/10/2024	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	120 %		70-130			"	"	"	
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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

B01@6'

7/10/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.8 %		70-130			B4G10 28	07/10/2024	07/10/2024	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	14.1		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.015		0.002	mg/kg	1	B4G1029	07/10/2024	07/10/2024	
2-Methylnaphthalene	0.013		0.002	"	"	"	"	"	
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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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

B01@6'

7/10/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1029	07/10/2024	07/10/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.006		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	9.63			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	31.7		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.56		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

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

B01@6'

7/10/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.78		0.255	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	193		8.79	"	"	"	"	"	
Cadmium	0.404		0.0879	"	"	"	"	"	
Copper	17.9		8.79	"	"	"	"	"	
Lead	18.9		0.879	"	"	"	"	"	
Nickel	17.0		0.879	"	"	"	"	"	
Selenium	0.869		0.228	"	"	"	"	"	
Silver	0.121		0.0879	"	"	"	"	"	
Zinc	87.9		32.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.259	0.155	0.388	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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Origins Laboratory, Inc.



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

B01@6'-V

7/10/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.015		0.002	mg/kg	1	B4G1141	07/11/2024	07/12/2024	
Naphthalene	0.007		0.002	"	"	"	"	"	

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	9.92			pH Units	1	B4G1123	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Selenium	0.550		0.260	mg/kg	10	B4G1140	07/11/2024	07/12/2024	
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

WH01-RISER@3'
7/10/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.254		0.101	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1015	07/10/2024	07/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1028	07/10/2024	07/10/2024	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	110 %		70-130			"	"	"	
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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

WH01-RISER@3'
7/10/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %		70-130			B4G10 28	07/10/2024	07/10/2024	
Surrogate: 4-Bromofluorobenzene	93.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.20		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1029	07/10/2024	07/10/2024	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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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

WH01-RISER@3'
7/10/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1029	07/10/2024	07/10/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	0.248		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.262		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

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

WH01-RISER@3'
7/10/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.76		0.265	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	81.6		9.14	"	"	"	"	"	
Cadmium	0.198		0.0914	"	"	"	"	"	
Copper	ND		9.14	"	"	"	"	"	
Lead	11.6		0.914	"	"	"	"	"	
Nickel	7.18		0.914	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	36.8		33.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.169	0.149	0.374	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

WH01-RISER@3'-V
7/10/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-04 (Soil)

pH in Soil by 9045D

pH	8.34			pH Units	1	B4G1123	07/11/2024	07/12/2024	
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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.

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

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

NATIVE-BG01@3'
7/10/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.167		0.100	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.58		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	1.78		0.823	"	"	"	"	"	
Sodium	1.69		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	1.03		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.824		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.59		0.282	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	49.5		9.74	"	"	"	"	"	
Cadmium	ND		0.0974	"	"	"	"	"	
Copper	ND		9.74	"	"	"	"	"	

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

NATIVE-BG01@3'
7/10/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-05 (Soil)

Table 915 metals by EPA 6020B

Lead	4.13		0.974	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	4.30		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.213	0.127	0.318	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

NATIVE-BG01@6'
7/10/2024 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.181		0.100	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.12		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	3.47		0.823	"	"	"	"	"	
Sodium	3.81		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	2.10		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.22		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.39		0.284	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	67.4		9.78	"	"	"	"	"	
Cadmium	0.110		0.0978	"	"	"	"	"	
Copper	ND		9.78	"	"	"	"	"	

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

NATIVE-BG01@6'
7/10/2024 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-06 (Soil)

Table 915 metals by EPA 6020B

Lead	6.24		0.978	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	6.81		0.978	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0978	"	"	"	"	"	
Zinc	ND		36.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.144	0.103	0.256	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

NATIVE-BG02@3'
7/10/2024 9:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.238		0.100	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.522		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.95		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	2.92		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.309		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.64		0.268	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	71.8		9.25	"	"	"	"	"	
Cadmium	0.137		0.0925	"	"	"	"	"	
Copper	ND		9.25	"	"	"	"	"	

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

NATIVE-BG02@3'
7/10/2024 9:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-07 (Soil)

Table 915 metals by EPA 6020B

Lead	7.36		0.925	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	8.04		0.925	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0925	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.120	0.107	0.267	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

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

NATIVE-BG02@6'
7/10/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.352		0.0987	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.22		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	2.63		0.823	"	"	"	"	"	
Sodium	6.87		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	4.02		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.39		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.16		0.262	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	807		9.03	"	"	"	"	"	
Cadmium	0.102		0.0903	"	"	"	"	"	
Copper	ND		9.03	"	"	"	"	"	

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

NATIVE-BG02@6'
7/10/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-08 (Soil)

Table 915 metals by EPA 6020B

Lead	6.99		0.903	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	8.19		0.903	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		33.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.186	0.133	0.332	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

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

NATIVE-BG03@3'
7/10/2024 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.286		0.100	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.646		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.15		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	4.16		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.427		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.65		0.279	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	72.5		9.60	"	"	"	"	"	
Cadmium	ND		0.0960	"	"	"	"	"	
Copper	ND		9.60	"	"	"	"	"	

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

NATIVE-BG03@3'
7/10/2024 9:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-09 (Soil)

Table 915 metals by EPA 6020B

Lead	7.10		0.960	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	6.41		0.960	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.158	0.140	0.350	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

NATIVE-BG03@6'
7/10/2024 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.06		0.101	mg/L	1	B4G1112	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.62		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	7.58		0.823	"	"	"	"	"	
Sodium	36.1		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B4G1119	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	14.6		0.0100	SAR	1	B4G1108	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.63		0.00500	mmhos/cm	1	B4G1119	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.68		0.262	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	175		9.04	"	"	"	"	"	
Cadmium	0.168		0.0904	"	"	"	"	"	
Copper	21.8		9.04	"	"	"	"	"	

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

NATIVE-BG03@6'
7/10/2024 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-10 (Soil)

Table 915 metals by EPA 6020B

Lead	19.9		0.904	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	9.71		0.904	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0904	"	"	"	"	"	
Zinc	45.2		33.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.173	0.433	mg/kg dry	1	2649510	08/05/2024	08/05/2024	U
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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

NATIVE-BG04@3'
7/10/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.530		0.0985	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	23.1		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	14.1		0.823	"	"	"	"	"	
Sodium	18.7		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	4.34		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.10		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.06		0.269	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	53.8		9.27	"	"	"	"	"	
Cadmium	0.172		0.0927	"	"	"	"	"	
Copper	9.51		9.27	"	"	"	"	"	

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

NATIVE-BG04@3'
7/10/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-11 (Soil)

Table 915 metals by EPA 6020B

Lead	13.2		0.927	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	6.22		0.927	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0927	"	"	"	"	"	
Zinc	36.6		34.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2649510	08/05/2024	08/05/2024	U
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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.

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

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

NATIVE-BG04@6'
7/10/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-12 (Soil)

Boron (DTPA Sorbitol)

Boron	2.14		0.100	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	11.6		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	21.5		0.823	"	"	"	"	"	
Sodium	68.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	16.9		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.03		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.30		0.274	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	72.7		9.46	"	"	"	"	"	
Cadmium	0.210		0.0946	"	"	"	"	"	
Copper	16.1		9.46	"	"	"	"	"	

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

NATIVE-BG04@6'
7/10/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-12 (Soil)

Table 915 metals by EPA 6020B

Lead	21.0		0.946	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	9.97		0.946	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0946	"	"	"	"	"	
Zinc	76.6		35.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.124	0.110	0.275	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

NATIVE-BG05@3'
7/10/2024 9:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302		0.101	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.20		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.57			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	7.06		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.563		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	91.1		0.281	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	78.8		9.70	"	"	"	"	"	
Cadmium	0.474		0.0970	"	"	"	"	"	
Copper	21.3		9.70	"	"	"	"	"	

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

NATIVE-BG05@3'
7/10/2024 9:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-13 (Soil)

Table 915 metals by EPA 6020B

Lead	17.8		0.970	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	27.8		0.970	"	"	"	"	"	
Selenium	0.763		0.252	"	"	"	"	"	
Silver	ND		0.0970	"	"	"	"	"	
Zinc	99.3		35.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.186	0.112	0.279	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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

NATIVE-BG05@6'
7/10/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-14 (Soil)

Boron (DTPA Sorbitol)

Boron	1.46		0.100	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.15		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	2.68		0.823	"	"	"	"	"	
Sodium	28.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.58			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	20.9		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.54		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.02		0.251	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	378		8.65	"	"	"	"	"	
Cadmium	0.197		0.0865	"	"	"	"	"	
Copper	13.0		8.65	"	"	"	"	"	

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

NATIVE-BG05@6'
7/10/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-14 (Soil)

Table 915 metals by EPA 6020B

Lead	13.6		0.865	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	12.1		0.865	"	"	"	"	"	
Selenium	0.282		0.225	"	"	"	"	"	
Silver	ND		0.0865	"	"	"	"	"	
Zinc	51.9		32.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.298	0.153	0.383	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

NATIVE-BG06@3'
7/10/2024 9:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.350		0.100	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.967		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	1.54		0.823	"	"	"	"	"	
Sodium	10.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	9.40		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.51		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.83		0.252	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	79.1		8.70	"	"	"	"	"	
Cadmium	0.123		0.0870	"	"	"	"	"	
Copper	ND		8.70	"	"	"	"	"	

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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

NATIVE-BG06@3'
7/10/2024 9:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-15 (Soil)

Table 915 metals by EPA 6020B

Lead	6.94		0.870	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	9.40		0.870	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	32.7		32.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.256	0.153	0.383	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417746
 Project: KMG - Boyle St 8-16 Wellhead

NATIVE-BG06@6'
7/10/2024 9:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-16 (Soil)

Boron (DTPA Sorbitol)

Boron	1.71		0.0997	mg/L	1	B4G1113	07/11/2024	07/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	15.8		0.499	meq/L	10	[CALC]	07/11/2024	07/12/2024	
Magnesium	29.9		0.823	"	"	"	"	"	
Sodium	62.6		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B4G1120	07/11/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	13.1		0.0100	SAR	1	B4G1109	07/11/2024	07/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.28		0.00500	mmhos/cm	1	B4G1120	07/11/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.71		0.266	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Barium	69.9		9.16	"	"	"	"	"	
Cadmium	0.156		0.0916	"	"	"	"	"	
Copper	9.34		9.16	"	"	"	"	"	

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

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

NATIVE-BG06@6'
7/10/2024 9:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407236-16 (Soil)

Table 915 metals by EPA 6020B

Lead	8.22		0.916	mg/kg	10	B4G1031	07/10/2024	07/11/2024	
Nickel	10.2		0.916	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	39.9		33.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.177	0.157	0.393	mg/kg dry	1	2649510	08/05/2024	08/05/2024	J
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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
Batch B4G1015 - EPA 3550B										
Blank (B4G1015-BLK1)										
					Prepared: 07/10/2024 Analyzed: 07/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.6	50-150			

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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 B4G1015 - EPA 3550B

LCS (B4G1015-BS1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

Diesel (C10-C28)	995	50.0	mg/kg	1000		99.5	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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 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 B4G1015 - EPA 3550B

Matrix Spike (B4G1015-MS1)	Source: Y407235-01			Prepared: 07/10/2024 Analyzed: 07/10/2024						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	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 B4G1015 - EPA 3550B

Matrix Spike Dup (B4G1015-MSD1)	Source: Y407235-01			Prepared: 07/10/2024 Analyzed: 07/10/2024						
Diesel (C10-C28)	987	50.0	mg/kg	1000	ND	98.7	70-130	2.96	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	4.83	35	
Surrogate: o-Terphenyl	53		"	49.8		107	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 B4G1028 - EPA 5030 (soil)

Blank (B4G1028-BLK1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

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	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	70-130			

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

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 B4G1028 - EPA 5030 (soil)

LCS (B4G1028-BS1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.117	0.00200	"	0.100		117	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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

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 B4G1028 - EPA 5030 (soil)

Matrix Spike (B4G1028-MS1)	Source: Y407235-01			Prepared: 07/10/2024 Analyzed: 07/10/2024						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
Naphthalene	0.118	0.00380	"	0.100	ND	118	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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

Jeremy Espinoza
 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 B4G1028 - EPA 5030 (soil)

Matrix Spike Dup (B4G1028-MSD1)	Source: Y407235-01			Prepared: 07/10/2024 Analyzed: 07/10/2024						
1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100	ND	99.4	70-130	0.702	20	
1,3,5-Trimethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	1.60	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.725	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.167	20	
Naphthalene	0.128	0.00380	"	0.100	ND	128	70-130	8.05	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	5.87	20	
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130	2.62	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.3	70-130	4.23	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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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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 B4G1031 - EPA 3050B

Blank (B4G1031-BLK1)

Prepared: 07/10/2024 Analyzed: 07/11/2024

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

LCS (B4G1031-BS1)

Prepared: 07/10/2024 Analyzed: 07/11/2024

Arsenic	5.34	0.290	mg/kg	5.00		107	80-120			
Barium	541	10.0	"	500		108	80-120			
Cadmium	5.77	0.100	"	5.00		115	80-120			
Copper	57.9	10.0	"	50.0		116	80-120			
Lead	5.60	1.00	"	5.00		112	80-120			
Nickel	5.86	1.00	"	5.00		117	80-120			
Selenium	5.30	0.260	"	5.00		106	80-120			
Silver	5.57	0.100	"	5.00		111	80-120			
Zinc	56.8	37.0	"	50.0		114	80-120			

Matrix Spike (B4G1031-MS1)

Source: Y407236-05

Prepared: 07/10/2024 Analyzed: 07/11/2024

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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 B4G1031 - EPA 3050B

Matrix Spike (B4G1031-MS1)

Source: Y407236-05

Prepared: 07/10/2024 Analyzed: 07/11/2024

Arsenic	6.29	0.248	mg/kg	4.28	1.59	110	75-125			
Barium	488	8.55	"	428	49.5	102	75-125			
Cadmium	4.68	0.0855	"	4.28	0.0876	107	75-125			
Copper	49.2	8.55	"	42.8	2.99	108	75-125			
Lead	9.11	0.855	"	4.28	4.13	117	75-125			
Nickel	9.85	0.855	"	4.28	4.30	130	75-125			QM-07
Selenium	4.24	0.222	"	4.28	0.0526	97.9	75-125			
Silver	4.36	0.0855	"	4.28	0.0195	101	75-125			
Zinc	64.9	31.6	"	42.8	17.3	112	75-125			

Matrix Spike Dup (B4G1031-MSD1)

Source: Y407236-05

Prepared: 07/10/2024 Analyzed: 07/11/2024

Arsenic	8.84	0.259	mg/kg	4.47	1.59	162	75-125	33.8	20	QR-DUP
Barium	560	8.93	"	447	49.5	114	75-125	13.8	20	
Cadmium	5.22	0.0893	"	4.47	0.0876	115	75-125	11.1	20	
Copper	58.0	8.93	"	44.7	2.99	123	75-125	16.3	20	
Lead	12.5	0.893	"	4.47	4.13	188	75-125	31.6	20	QR-DUP
Nickel	15.7	0.893	"	4.47	4.30	255	75-125	45.7	20	QR-DUP
Selenium	4.78	0.232	"	4.47	0.0526	106	75-125	12.1	20	
Silver	4.84	0.0893	"	4.47	0.0195	108	75-125	10.5	20	
Zinc	90.2	33.0	"	44.7	17.3	163	75-125	32.5	20	QR-DUP

Batch B4G1140 - EPA 3050B

Blank (B4G1140-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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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
Batch B4G1140 - EPA 3050B										
Blank (B4G1140-BLK1)					Prepared: 07/11/2024 Analyzed: 07/12/2024					
Lead	ND	1.00	mg/kg							
Nickel	ND	1.00	"							
LCS (B4G1140-BS1)					Prepared: 07/11/2024 Analyzed: 07/12/2024					
Arsenic	5.76	0.290	mg/kg	5.00		115	80-120			
Barium	567	10.0	"	500		113	80-120			
Cadmium	5.36	0.100	"	5.00		107	80-120			
Lead	5.67	1.00	"	5.00		113	80-120			
Nickel	5.54	1.00	"	5.00		111	80-120			
Matrix Spike (B4G1140-MS1)		Source: Y407241-01			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Arsenic	7.70	0.284	mg/kg	4.90	3.93	76.9	75-125			
Barium	617	9.81	"	490	103	105	75-125			
Cadmium	5.19	0.0981	"	4.90	0.186	102	75-125			
Lead	12.3	0.981	"	4.90	11.7	11.7	75-125			QM-07
Nickel	12.9	0.981	"	4.90	11.6	26.3	75-125			QM-07
Matrix Spike Dup (B4G1140-MSD1)		Source: Y407241-01			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Arsenic	9.01	0.283	mg/kg	4.88	3.93	104	75-125	15.6	20	
Barium	747	9.77	"	488	103	132	75-125	19.0	20	QM-07
Cadmium	5.22	0.0977	"	4.88	0.186	103	75-125	0.641	20	
Lead	17.1	0.977	"	4.88	11.7	111	75-125	32.9	20	QR-DUP
Nickel	17.6	0.977	"	4.88	11.6	124	75-125	31.4	20	QR-DUP

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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 B4G1029 - EPA 3580

Blank (B4G1029-BLK1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

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	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		90.0	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B4G1029-BS1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.4	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200		98.1	70-130			
Acenaphthene	0.210	0.020	"	0.200		105	70-130			
Anthracene	0.172	0.020	"	0.200		85.8	70-130			

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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 B4G1029 - EPA 3580

LCS (B4G1029-BS1)

Prepared: 07/10/2024 Analyzed: 07/10/2024

Benzo (a) anthracene	0.203	0.005	mg/kg	0.200		101	70-130			
Benzo (a) pyrene	0.211	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.7	70-130			
Benzo (k) fluoranthene	0.198	0.020	"	0.200		99.1	70-130			
Chrysene	0.201	0.020	"	0.200		100	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		101	70-130			
Fluoranthene	0.189	0.020	"	0.200		94.6	70-130			
Fluorene	0.221	0.020	"	0.200		110	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.2	70-130			
Naphthalene	0.212	0.002	"	0.200		106	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.5	70-130			
Pyrene	0.203	0.020	"	0.200		101	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		89.4	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4G1029-MS1)

Source: Y407240-01

Prepared: 07/10/2024 Analyzed: 07/10/2024

1-Methylnaphthalene	0.162	0.002	mg/kg	0.200	ND	81.2	70-130			
2-Methylnaphthalene	0.162	0.002	"	0.200	ND	80.9	70-130			
Acenaphthene	0.174	0.020	"	0.200	ND	87.2	70-130			
Anthracene	0.150	0.020	"	0.200	ND	75.0	70-130			
Benzo (a) anthracene	0.168	0.005	"	0.200	ND	84.1	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200	0.001	92.1	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200	0.0003	95.4	70-130			
Benzo (g,h,i) perylene	0.171	0.020	"	0.200	0.001	84.8	70-130			

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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 B4G1029 - EPA 3580

Matrix Spike (B4G1029-MS1)		Source: Y407240-01			Prepared: 07/10/2024 Analyzed: 07/10/2024					
Benzo (k) fluoranthene	0.181	0.020	mg/kg	0.200	ND	90.6	70-130			
Chrysene	0.176	0.020	"	0.200	ND	87.8	70-130			
Dibenz (a,h) anthracene	0.170	0.020	"	0.200	0.0008	84.8	70-130			
Fluoranthene	0.151	0.020	"	0.200	ND	75.3	70-130			
Fluorene	0.177	0.020	"	0.200	ND	88.6	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200	ND	84.9	70-130			
Naphthalene	0.170	0.002	"	0.200	ND	85.2	70-130			
Phenanthrene	0.156	0.020	"	0.200	ND	78.2	70-130			
Pyrene	0.171	0.020	"	0.200	ND	85.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		89.3	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4G1029-MSD1)		Source: Y407240-01			Prepared: 07/10/2024 Analyzed: 07/10/2024					
1-Methylnaphthalene	0.162	0.002	mg/kg	0.200	ND	81.2	70-130	0.0128	20	
2-Methylnaphthalene	0.164	0.002	"	0.200	ND	81.8	70-130	1.16	20	
Acenaphthene	0.173	0.020	"	0.200	ND	86.7	70-130	0.530	20	
Anthracene	0.154	0.020	"	0.200	ND	77.1	70-130	2.72	20	
Benzo (a) anthracene	0.170	0.005	"	0.200	ND	85.1	70-130	1.18	20	
Benzo (a) pyrene	0.183	0.020	"	0.200	0.001	90.7	70-130	1.49	20	
Benzo (b) fluoranthene	0.181	0.020	"	0.200	0.0003	90.3	70-130	5.57	20	
Benzo (g,h,i) perylene	0.175	0.020	"	0.200	0.001	87.2	70-130	2.70	20	
Benzo (k) fluoranthene	0.182	0.020	"	0.200	ND	91.1	70-130	0.640	20	
Chrysene	0.170	0.020	"	0.200	ND	85.1	70-130	3.11	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	0.0008	91.4	70-130	7.41	20	
Fluoranthene	0.161	0.020	"	0.200	ND	80.7	70-130	6.86	20	

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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 B4G1029 - EPA 3580

Matrix Spike Dup (B4G1029-MSD1)		Source: Y407240-01			Prepared: 07/10/2024 Analyzed: 07/10/2024					
Fluorene	0.180	0.020	mg/kg	0.200	ND	89.9	70-130	1.39	20	
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200	ND	87.8	70-130	3.45	20	
Naphthalene	0.174	0.002	"	0.200	ND	87.1	70-130	2.16	20	
Phenanthrene	0.158	0.020	"	0.200	ND	79.2	70-130	1.30	20	
Pyrene	0.168	0.020	"	0.200	ND	84.2	70-130	1.82	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Batch B4G1141 - EPA 3580

Blank (B4G1141-BLK1)		Prepared: 07/11/2024 Analyzed: 07/11/2024								
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

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1141 - EPA 3580

Blank (B4G1141-BLK1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

Naphthalene	ND	0.002	mg/kg							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

LCS (B4G1141-BS1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200		97.2	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200		97.0	70-130			
Acenaphthene	0.201	0.020	"	0.200		101	70-130			
Anthracene	0.174	0.020	"	0.200		86.8	70-130			
Benzo (a) anthracene	0.185	0.005	"	0.200		92.6	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200		95.1	70-130			
Benzo (k) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Chrysene	0.188	0.020	"	0.200		94.0	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200		98.3	70-130			
Fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Fluorene	0.213	0.020	"	0.200		106	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200		103	70-130			
Naphthalene	0.207	0.002	"	0.200		104	70-130			
Phenanthrene	0.179	0.020	"	0.200		89.6	70-130			
Pyrene	0.192	0.020	"	0.200		96.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			

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

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 B4G1141 - EPA 3580

LCS (B4G1141-BS1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

Surrogate: Anthracene-d10	180		ug/kg	200		89.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4G1141-MS1)

Source: Y407236-02

Prepared: 07/11/2024 Analyzed: 07/11/2024

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	0.015	101	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200	0.014	101	70-130			
Acenaphthene	0.224	0.020	"	0.200	0.005	110	70-130			
Anthracene	0.190	0.020	"	0.200	ND	95.2	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.003	98.4	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.008	98.5	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.008	92.7	70-130			
Benzo (k) fluoranthene	0.200	0.020	"	0.200	0.002	99.1	70-130			
Chrysene	0.213	0.020	"	0.200	0.003	105	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.0009	97.7	70-130			
Fluoranthene	0.210	0.020	"	0.200	0.006	102	70-130			
Fluorene	0.224	0.020	"	0.200	0.003	110	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	0.004	94.8	70-130			
Naphthalene	0.221	0.002	"	0.200	0.007	107	70-130			
Phenanthrene	0.206	0.020	"	0.200	0.008	98.6	70-130			
Pyrene	0.219	0.020	"	0.200	0.013	103	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4G1141-MSD1)

Source: Y407236-02

Prepared: 07/11/2024 Analyzed: 07/11/2024

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

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
Batch B4G1141 - EPA 3580										
1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.015	99.9	70-130	0.580	20	
2-Methylnaphthalene	0.213	0.002	"	0.200	0.014	99.4	70-130	1.25	20	
Acenaphthene	0.221	0.020	"	0.200	0.005	108	70-130	1.58	20	
Anthracene	0.187	0.020	"	0.200	ND	93.5	70-130	1.81	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.003	99.3	70-130	0.902	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	103	70-130	2.98	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.008	101	70-130	2.12	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.008	93.8	70-130	1.09	20	
Benzo (k) fluoranthene	0.202	0.020	"	0.200	0.002	99.9	70-130	0.827	20	
Chrysene	0.209	0.020	"	0.200	0.003	103	70-130	1.57	20	
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.0009	97.8	70-130	0.116	20	
Fluoranthene	0.203	0.020	"	0.200	0.006	98.2	70-130	3.62	20	
Fluorene	0.226	0.020	"	0.200	0.003	111	70-130	0.944	20	
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	0.004	96.1	70-130	1.36	20	
Naphthalene	0.218	0.002	"	0.200	0.007	105	70-130	1.29	20	
Phenanthrene	0.201	0.020	"	0.200	0.008	96.4	70-130	2.18	20	
Pyrene	0.210	0.020	"	0.200	0.013	98.5	70-130	4.39	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	200		"	200		99.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.5	60-130			

Origins Laboratory, Inc.



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 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 B4G1108 - Saturated Paste Metals

Blank (B4G1108-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

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

Duplicate (B4G1108-DUP1)

Source: Y407235-01

Prepared: 07/11/2024 Analyzed: 07/12/2024

Calcium PPM	72.1	10.0	mg/L		73.1			1.38	50	
SAR	ND	0.0100	SAR		27.8				200	
Magnesium PPM	35.1	10.0	mg/L		25.0			33.5	50	
Sodium PPM	940	10.0	"		1080			13.8	50	

Batch B4G1109 - Saturated Paste Metals

Blank (B4G1109-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

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

Duplicate (B4G1109-DUP1)

Source: Y407236-11

Prepared: 07/11/2024 Analyzed: 07/12/2024

Calcium PPM	455	10.0	mg/L		462			1.49	50	
SAR	ND	0.0100	SAR		4.34				200	
Magnesium PPM	168	10.0	mg/L		171			1.87	50	
Sodium PPM	418	10.0	"		429			2.76	50	

Batch B4G1112 - DTPA Sorbitol Preparation

Blank (B4G1112-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

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

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G1112 - DTPA Sorbitol Preparation										
Blank (B4G1112-BLK1)					Prepared: 07/11/2024 Analyzed: 07/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G1112-DUP1)		Source: Y407235-01			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Boron	1.30	0.101	mg/L		1.22			6.10	50	
Batch B4G1113 - DTPA Sorbitol Preparation										
Blank (B4G1113-BLK1)					Prepared: 07/11/2024 Analyzed: 07/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G1113-DUP1)		Source: Y407236-11			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Boron	0.580	0.0992	mg/L		0.530			8.96	50	

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 B4G1119 - Saturated Paste pH/EC

Blank (B4G1119-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1119-DUP1)

Source: Y407235-01

Prepared: 07/11/2024 Analyzed: 07/12/2024

pH 8.15 pH Units 8.50 4.20 25

Specific Conductance (EC) 4.52 0.00500 mmhos/cm 5.34 16.7 25

Batch B4G1120 - Saturated Paste pH/EC

Blank (B4G1120-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1120-DUP1)

Source: Y407236-11

Prepared: 07/11/2024 Analyzed: 07/12/2024

pH 8.08 pH Units 8.10 0.247 25

Specific Conductance (EC) 4.10 0.00500 mmhos/cm 4.10 0.0219 25

Batch B4G1123 - Saturated Paste pH/EC

Duplicate (B4G1123-DUP1)

Source: Y407235-02

Prepared: 07/11/2024 Analyzed: 07/12/2024

pH 7.98 pH Units 8.03 0.625 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 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2649510 - SW846 3060A										
BLANK (1205807294-BLK)					Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
LCS (1205807295-BKS)					Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	2.97	0.300	mg/kg	3.00		99.3	80-120			
DUP (1205807296 D)					Source: Y407236-01 Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	0.217	0.388	mg/kg dry		0.259		0-50	17.8	50	J
MS (1205807297 S)					Source: Y407236-01 Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	1.62	0.322	mg/kg dry	3.22	0.259	42.2	75-125			
DUP (1205807298 D)					Source: Y407236-03 Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	ND	0.374	mg/kg dry		0.169		0-50	N/A	50	U
MS (1205807299 S)					Source: Y407236-03 Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	1.54	0.244	mg/kg dry	2.44	0.169	56.4	75-125			
ILCS (1205807300-ILCS)					Prepared: 08/05/2024 Analyzed: 08/05/2024					
Hexavalent Chromium	4.12	0.204	mg/kg	4.13		99.7	80-120			

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Ensolum
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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-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 Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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